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UPDATED DRAFT

Phase III RCRA Facility Investigation Report

Former Detrex Facility

3114 and 3124 Cullman Avenue
Charlotte, Mecklenburg County, NC

Prepared for:

Trex Properties, LLC.
1650 Des Peres Road, Suite 303
Saint Louis, Missouri 63131

Prepared by:

Withers & Ravenel, Inc.
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November 12, 2015

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November 12, 2015

Ms. Kathy Lawson
NCDENR, Division of Solid Waste Management
217 West Jones Street
Raleigh, NC 27603
VIA: Fed Ex

RE: NOTI response to the May 26, 2015
Draft Phase III RFI Report
3114 Cullman Ave.
Charlotte, NC 28206
EPA ID # NCD 049 773 245

Dear Ms. Lawson:

In response to North Carolina's Department of Environment and Natural Resources (NCDENR) notice of technical inadequacy (NOTI) letter of August 18, 2015, Trex Properties, LLC (Trex) through Withers and Ravenel (W&R) is providing one original paper copy and two electronic copies (CD) of a revised Draft Phase III RFI Report.

The report addresses comments related to technical issues, conclusions and recommendations, and general concerns raised by NCDENR, and includes the collection of groundwater samples from all monitoring wells that could be located.

In addition to the report, W&R has prepared a direct response to the NOTI letter. For your convenience one original and two electronic copies of W&R's response are also provided.

If you have any questions, please feel free to give me a call at 248.358.5800.131.

Best regards,

David Craig
Senior Project Manager

Addendum to May 26, 2015 Draft Phase III RFI Report

Trex Properties, LLC Charlotte, North Carolina: EPA ID # NCD 049 773 245

Responses to NCDENR Comments Contained in August 18, 2015 Notice of Technical Inadequacy

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Note: The August 18, 2015 NCDENR comments are reproduced in italics below and our responses are provided below each comment.

General Comment

There are sufficient issues regarding the soil sampling, installation, development and testing of well 20A, 20B, 21A, 21B, and 22B such that Trex will need to sample the wells again once the wells have stabilized and provide an updated Report. The issues are:

1. *Only one trip blank was used during the sampling.*

   Section 4.3 states that one trip blank was prepared. The Section then states that "This trip blank stayed in the sample cooler as the soil and groundwater samples were collected over the next two weeks" and was then returned to Pace on December 12, 2014. Trip blanks should be prepared for each day's sampling. Otherwise the trip blank is not representative of the handling of each set of samples sent to the lab. In addition, there is no proof for chain of custody. Note that:

   a. *There is no trip blank included with the samples sent to Pace on December 5, 2014 (Appendix C).*

   b. *There is a note on the Sample Condition Upon Receipt form dated December 12, 2014 stating that a trip blank was received that was "Not on COC" (Appendix C).*

   Each cooler sent to the lab should include a trip blank. One trip blank cannot be used for multiple trips to the lab as this is not representative of the trip for each set of samples. The trip blank analysis for this sampling event is invalid.

Response:

We (Trex and W&R) regret the circumstances that led to this QA/QC mishap. During our follow up groundwater sampling work in September 2015 we obtained and submitted for analysis the required number of trip blanks, field blanks and equipment blanks as directed by NCDENR in their September 17, 2015 letter to Trex. Results of these analyses are included in the attached Updated Draft Phase III RCRA Facility Investigation (RFI) Report.

2. *Soil samples from the bottom of the type III wells were not collected with a split spoon.*

   Section 6.1 states that the field representative was instructed to "collect at grab sample of cuttings brought to the surface by the air rotary drilling process when the driller indicated that competent bedrock had been reached. Therefore the exact depth of the sample is approximate." The soils samples should have been taken from just above where the air rotary drilling started. The contaminants of concern are volatile and air rotary drilling would have caused them to volatilize causing the grab samples taken to be unrepresentative of the actual conditions in the soil.

Response:

In NCDENR's September 30, 2014 letter to Trex we were instructed to collect four soil samples from each well pair as follows: one at the surface, one at the bottom of each well, and one at the highest PID reading in the deeper well. The lower portion of the deeper well in each pair was installed within partially weathered rock or competent rock, materials which due to their hardness could not be drilled with hollow stem augers or sampled with split spoons. The borings through these materials were therefore advanced using air rotary drilling methods, which do not allow for collection of discrete samples of the materials being drilled.

To meet the requirement of collecting a soil sample from the bottom of the boring for the deep well of each pair, grab samples were collected as described in the quote from Section 6.1 provided above. It was our understanding that these samples were being collected and analyzed to characterize both the unsaturated and saturated soil cuttings for proper disposal, particularly those produced from depths below the water table. Since it is not possible to discern whether contamination identified in a saturated soil sample comes from contaminants adhered to soil particles or dissolved within groundwater, such analysis results should not be used as a means to evaluate the extent of soil contamination. Rather, analysis results for such samples are better suited to characterize investigation derived waste (IDW) for proper disposal.

3. *The organic vapor analyzer (OVA) was not calibrated every day as specified in the SAP.*

   Section 6.1 states that the first notation of OVA calibration for soils sampling was December 9, 2015 even though soil sampling started on December 1, 2015.

Response:

Upon further review of the field notes, we discovered that the statement from Section 6.1 is incorrect. The flame ionization detector (FID) also referred to as an organic vapor analyzer (OVA) or total vapor analyzer (TVA) was rented from Enviro-Equipment in Pineville, NC and was picked up on December 1, 2015 prior to beginning drilling activities at the site. Field instruments that we rent from this company are always provided in a calibrated condition. According to page 5 of the field notes included in our May 26, 2015 Draft Phase III RFI Report,

on December 2, 2014 the W&R field representative left the site to pick up a calibration kit for the TVA, but did not make a notation that he calibrated the instrument later that day. Page 11 of the field notes indicates that the TVA was calibrated on December 3, 2014. Page 24 of the field notes indicates that the TVA was calibrated on the following Monday December 8, 2015, and on Tuesday December 9, 2015 (page 27). Air rotary drilling took place on December 10, 2014 so the TVA was not used, and page 35 of the field notes indicates that the TVA was calibrated on December 11, 2015. No soil samples were collected after this date so the TVA was not used again.

Therefore, while we failed to document that the TVA had been calibrated every day that it was on site, we did document that it was calibrated on most of the days that it was used to screen soil samples. As mentioned in Section 6.1 of the Draft Phase III RFI Report, since the TVA was used only as a screening tool we do not believe that this deviation adversely affects the quality of the data or results included in the report.

4. *The general groundwater monitoring equipment was not calibrated every day as specified in the SAP.*

   Section 6.2 states that calibration of the groundwater monitoring equipment was conducted on December 12, 2015 even though groundwater samples had been collected on December 11, 2015.

Response:

We regret that our field representative did not note in the field book that the general water quality monitoring instruments were calibrated on December 11, 2015. However, he did make such a notation on the following day (page 37). As noted in Section 6.2 of our Draft Phase III RFI Report, because the readings obtained on December 11th were reasonably similar to those obtained on the 12th, and compared well with readings obtained by previous investigators in 2012, we do not believe that this deviation adversely affects the quality of the data or results included in the report.

5. *The deep wells were not allowed to stabilize after air rotary drilling was complete and before sampling of the groundwater was done.*

   Drilling and soil sampling took place between December 1 and December 11, 2015. Groundwater samples were taken on December 11 and December 12, 2015. Air rotary drilling of the deep wells would have caused the constituents of concern to volatilize. This not only affects soil samples. It also affects groundwater samples. The deep wells should have been allowed to stabilize before sampling was done. Such stabilization of the volatile constituents often takes two to three months. Therefore groundwater

samples taken from the deep wells do not represent the actual conditions in the groundwater.

Response:

Table 5 of the attached Updated Draft Phase III RFI Report summarizes the analytical results for groundwater samples collected from well pairs PMW-20A & B, PMW-21A & B, and PMW-22A &B on December 11 and 12, 2014, and on September 22 and 23, 2015, over nine months later. Comparison of these results indicate that at each well location, similar concentrations of the same contaminants of concern (COCs) were reported for both sampling events. These results imply that the analytical results are representative of recent and current groundwater conditions at the site.

6. A drill bit was left in Well 21 B.

Pages 8 and 9 of the field notes in Appendix A indicate that the drill bit came off the drilling rig, attempts to retrieve it were unsuccessful and the well was set with the drill bit still in place. No indication that this event had happened is in the report nor is there any discussion on what affect it may have on groundwater monitoring samples.

Response:

We do not expect that the presence of a steel drilling bit buried beneath the bottom of PMW-21B would have any influence on the concentrations of COCs measured in groundwater at this location. This was our opinion at the time the incident occurred, which was after the outer casing for the Type III well had been set and many drums of potentially hazardous IDW had been generated. Because it was apparent that the presence of a buried steel drilling bit should not influence future groundwater sample analytical results, we decided to install PMW-21B above the buried drill bit rather than abandon an otherwise good monitoring well boring and generate additional potentially hazardous IDW.

7. Fractures yielding water were discovered during the drilling of the wells.

Fractures yielding water were found during the drilling of wells MW-21D (B?) and MW-20B (field notes – page 8 and pages 34 and 35). In addition the sand in well MW-20B was placed high enough to include one fracture. Since Trex is attempting to use the concentration values in well MW-20B to verify that there is an offsite source of contamination, the possible effects of the fracture should be discussed.

Response:

The presence of fractures in the upper portion of bedrock in Piedmont settings in North Carolina is not uncommon and is to be expected. As mentioned previously, the deeper portions of the Type III well borings were advanced using air rotary drilling equipment, which does not allow for the collection of discrete samples of the material being drilled. Thus we do not have any information regarding the orientation or other characteristics of the fractures encountered. Our field representative noted what he believed to be fractures based on the observation of water being produced during the drilling process when he knew that the machinery was drilling through rock. However, because this is likely the natural condition for the uppermost portion of bedrock across the site, further evaluation does not appear to be warranted. Additionally, we expect that attempting to fully characterize the nature and extent of fractures under a site such as this would be a cost prohibitive exercise of questionable value.

We know from our experience at this and other Piedmont sites that the direction of groundwater flow through partially weathered rock and competent bedrock is controlled by hydraulic gradients, and that groundwater will move from areas of higher hydraulic head (groundwater at higher elevation) to areas of lower hydraulic head. This is true for flow through either porous or fractured media. The groundwater elevations shown in Table 2 of the attached Updated Draft Phase III RFI Report indicate that the highest groundwater elevation in the saprolite/partially weathered rock portion of the aquifer was measured at PMW-20A, and that highest groundwater elevation in the bedrock was measured at PMW-20B. Therefore, we expect that groundwater flows away from this area towards the north, northeast and northwest as illustrated in the maps in the attached report. Additionally, we would not expect groundwater occurring at lower elevations to flow towards the PMW-20 well pair as the hydraulic head relationship would not allow such flow.

8. QA/QC had a number of exceedances of the laboratory control limits for the matrix spike recovery and the matrix spike and matrix spike duplicate recovery.

The Matrix Spike and Matrix Spike Duplicate (1345964, 1345965 and 1351906) recovery for a number of parameters was outside the laboratory control limit. The Matrix Spike Sample (1348898) exceeded QA/QC limits for a number of parameters. Discuss reasons for the acceptance of the results in light of these quality control issues.

Response:

Please see attached narrative on Matrix Spike results that was prepared by Pace Quality Manager Cheryl Johnson.

<u>Comments on Conclusions and Recommendations</u>

9. *The Hazardous Waste Section agrees that groundwater flow is in a northerly direction toward Little Sugar Creek.*

Response:

No response required.

10. *The Hazardous Waste Section does not agree that Trex has proved Little Sugar Creek to be a hydraulic boundary. The fourth paragraph of Section 2.4 states that "the groundwater elevation in the deeper well is usually higher than that of the shallow well" indicating an upward component of groundwater flow. Of the fifteen existing well pairs or clusters (based on the hypothesis that a higher water level in the deeper well shows an upward movement of groundwater) six indicate and upward component, four indicate a downward component, and five were not measured. In addition, the "indication" of upward or downward flow does not appear to be related to the wells' proximities to Little Sugar Creek. Six out of fifteen data points does not justify the statement that Little Sugar Creek is a hydraulic barrier. In addition, the well casing elevations provided in this report do not match the well casing elevations provided in the April 5, 2013 Draft Interim Report Addendum. Provide an explanation for the discrepancies in the casing elevations.*

Response:

Little Sugar Creek is a perennial surface water feature that has been present at its current location for a very long time. The creek occupies the topographically lowest area between higher topographic elevations to the north and south. Water within the creek comes from surface water runoff from the north, south and east, and flows to the west towards the city of Charlotte.

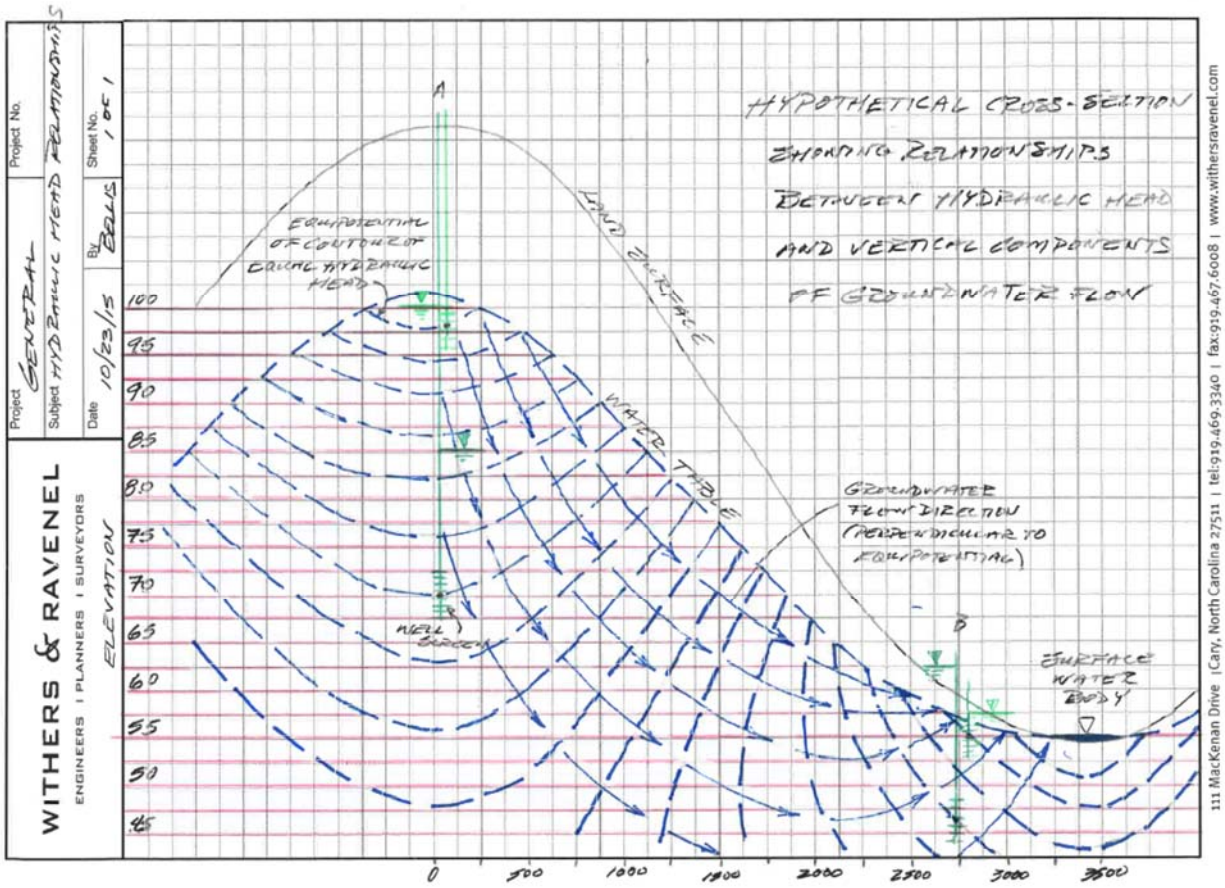
The creek is considered to be a perennial stream because it exhibits water flow throughout the year, even during dryer times of the year. Water present within the stream during dryer times comes from groundwater discharge from both north and south sides of the creek. The creek is the area where groundwater flowing southward from the north meets groundwater flowing northward from the south, as illustrated in the groundwater elevation contour maps provided in the attached Updated Draft Phase III RFI Report.

As illustrated in Table 2 of the attached report, the hydraulic head or groundwater elevation in the deeper portion of the aquifer at well pairs located proximal to Little Sugar Creek is higher than that in the shallow portion of the aquifer, which indicates the presence of an upward component of groundwater flow. This is the case at PMW-7A & B, PMW-8A & B, PMW-9A, B &

C, PMW-10A & B, PMW-12A & B, PMW-21A & B, and PMW-22A & B. The groundwater elevation measured in PMW-11A was higher than that in deeper well PMW-11B when the water levels were measured on September 22, 2015. However, when these wells were measured during Amec's September 25, 2012 groundwater sampling event, the water level in deeper well PMW-11B was 0.27 feet higher than that in PMW-11A, indicating the presence of an upward component of groundwater flow.

Conversely, the hydraulic head in the shallow portion of the aquifer is higher than that in the deeper portion at locations that are distant from the creek, particularly PMW-1A & B, PMW-2A & B, and PMW-20A & B.

Regarding the hypothesis that a higher water level in the deeper well shows and upward movement of groundwater, we offer the following hypothetical cross-section, which illustrates this relationship.



Additionally, the absence of contaminants associated with the site in two sets of groundwater samples from off-site wells PMW-22A & B, which are located on the north side of the creek, indicates that Little Sugar Creek is acting as a barrier that prevents groundwater from south of the creek from moving further to the north. Our contention that groundwater in the vicinity of the site is discharging into Little Sugar Creek is supported by previous analyses of surface water

from the creek (2012 Phase II Interim Report), which show detectable concentrations of contaminants in all samples collected along the creek.

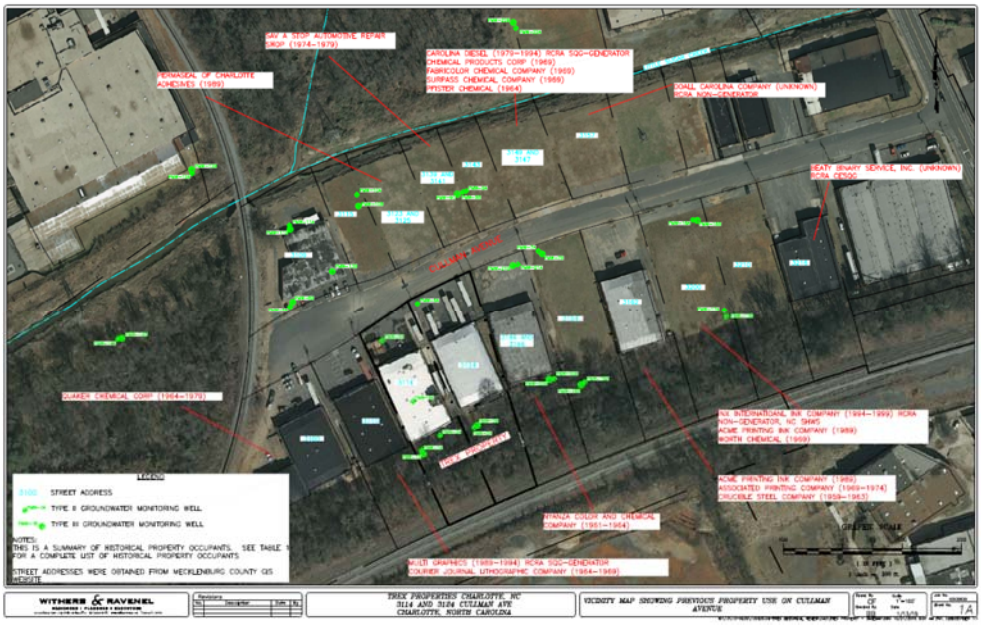
All of the lines of evidence described above imply that Little Sugar Creek acts not only as a groundwater discharge area, but as a hydraulic barrier that prevents the movement of groundwater from the south side of the creek to its north side, and vice versa.

With regard to the well casing elevations provided in our May 26, 2015 draft report, we have discovered that top of casing (TOC) elevations provided to us in a spreadsheet prepared by the previous consultant (Amec) were erroneous. In that spreadsheet, the casing elevations provided in Amec's April 5, 2013 report were labeled as ground surface elevations, and the top of casing elevations were derived by adding the height of the well stick up to the ground surface elevation, which is not an acceptable way to determine TOC elevations. We did not discover this until after we reviewed your comment regarding the discrepancy. The top of casing elevations cited in Amec's April 5, 2013 report have therefore been used to prepare the tables and figures of the attached Updated Draft Phase III RFI Report.

11. The Hazardous Waste Section is not convinced that the contamination under the Nexus Church property is from an offsite source, particularly since a fracture was found during the drilling of Well MW-20B. Depending on the direction of the fracture, the contamination could have come from the Trex property. Provide a justification, including the existence of the fracture (direction and angle), groundwater depth and flow rate and existence of soil contamination for determining this to be an off-site source.

Response:

Please see our response to NCDENR comment number 7 regarding the nature of fractured rock and associated groundwater flow at typical Piedmont sites. Because we suspected that other buildings in the vicinity of the Trex site may have also handled chemicals or solvents in the past, we conducted a review of city directories for the City of Charlotte to see what types of business formerly occupied the buildings. The results of this exercise are summarized in the figure below, a larger and more legible version of which is included in the Updated Draft Phase III RFI Report.



The city directory search revealed that the first occupant of the building at 3144 Cullman Avenue, which is now the Nexus Church, was a company named Nyanza Color and Chemical Company (Nyanza). Like the Trex buildings, the Nyanza building was designed to receive liquid or solid products via a rail spur and rear loading docks, store the products in the approximately 10,000 square foot warehouse space, and distribute the products via tractor trailer trucks which could access the building via elevated loading docks in the front of the building. Below is a photograph of the former rear loading dock for the Nyanza building taken at the time wells PMW-20A & B were installed.

The cinder blocks that help comprise the loading dock at 3144 Cullman Avenue shown in the above photograph show signs of pitting and deterioration, which may have been the result of past spills of chemicals by a previous occupant of the building.

Additionally, the W&R field representative and drilling crew that installed PMW-20A&B noted the presence of strong solvent odors coming from the soil cuttings produced during the drilling process, and W&R noted the presence of strong solvent odors emanating from well PMW-20A as a groundwater sample from the well was being collected. These observations and the presence of a rail spur and loading dock behind the building at 3144 Cullman Avenue imply that the building was designed and built to receive and store products delivered by rail, and that a previous release of solvent or other corrosive material had occurred near the rear loading dock.

The table below provides the names of businesses that according to the city directory search, occupied the building at 3144 Cullman Avenue. Businesses that likely handled chemicals, hazardous waste or petroleum products or wastes in the past are highlighted in red, and the basis for the assumptions are provided in the notes below the table.

Former Businesses Located at 3144 Cullman Avenue

Business/Company Name	Years of Occupancy	Chemicals Likely Handled
Nexus Church	2008 to Present	Paints, general cleaning supplies
Bickenback	2008	Unknown
No Listing	2005	Unknown
Flow Fabrication (overflow)	1994	Unknown
Davis Marketing	1989	Unknown
Lyf Tym Building Products	1979-1984	Unknown
Thompson Distributing Co.	1969-1974	Unknown
Nyanza Color and Chemical Co	1961-1964	Dyes and solvents for textile industry[1,2,3]

Notes: 1: http://www.colorantshistory.org/Nyanza.html
2:http://yosemite.epa.gov/R1/npl_pad.nsf/31c4fec03a0762d285256bb80076489c/e720462345729a4f8525691f0063f6e1!OpenDocument
3: Company operated before the advent of environmental regulations and likely handled chemicals including dyes and chlorinated solvents used in the textile industry.

According to Mecklenburg County records for this property, the building was constructed in 1960, and according to the Charlotte city directories, the first occupant of the building was Nyanza.

According to historical information on Nyanza, which can be accessed through the above hyperlinks, the company's product line in 1957 included various dyes and textile chemicals. These were likely manufactured at the company's main plant in Ashland Massachusetts, which was first occupied in 1917. Poor waste handling practices and lack of environmental rules

regarding proper disposal of wastes that contained such chemicals led to the placement of the Ashland site on the EPA National Priorities List in 1982, after Nyanza had ceased operations at the approximately 35 acre site in 1978. According to the EPA summary document on the "Nyanza Chemical Waste Dump" which can be accessed via the hyperlink in Note 2 above:

"The groundwater, soil, sediments, and surface water are contaminated with heavy metals and chlorinated organics. The groundwater and soil are also contaminated with spent solvents and chemical wastes. Vapors originating from spent solvents in shallow groundwater have also been detected inside some area buildings. Health threats include direct contact with or accidental ingestion of contaminated groundwater or soil, and inhalation of vapors inside some area buildings. Sudbury River fish are contaminated with mercury."

As discussed in our May 26, 2015 draft report, the main contaminant of concern discovered in soil and groundwater from the 3144 Cullman Avenue site is trichloroethylene. According to Toxipedia (http://www.toxipedia.org/display/toxipedia/Trichloroethylene):

"Trichloroethylene has also been used by textile industries. Their main use of trichloroethylene is to clean cotton, wool and other fabrics. It is also used as a solvent for waterless dying. Trichloroethylene is also found and used in products such as dyes, printing inks, paints, adhesives, paint removers, typewriter correction fluids, as well as spot removers."

Given the long association of trichloroethylene with the textile industry, it is reasonable to assume that it was one of the chemical products handled or distributed by Nyanza. It is important to note that at the time the Nyanza Color and Chemical Company occupied the building at 3144 Cullman Avenue there were virtually no state or federal regulations that required reporting of accidental or intentional chemical spills. Therefore is reasonable to conclude that the likely source of the soil and groundwater contamination discovered behind the building is the former chemical handling practices followed by the former Nyanza employees.

12. *The Hazardous Waste Section approved the pilot study for the soil under 3114 Cullman Avenue on August 19, 2014. In addition, on April 7, 2015, the Hazardous Waste Section granted permission for Trex to install all three wells at the same time as an interim measure. Trex was made aware that the installation of all three wells will be done at risk. If the pilot study (or operation of all three wells) does not achieve the desired results, or if adverse comments are received during the Public Comment period for a final remedy, Trex will have to submit a revised corrective measure for the facility.*

Response:

While this comment is not related to our May 26, 2015 draft report, we will conduct the soil venting/vapor extraction pilot test using only one section of ~140 foot long horizontal slotted

pipe as described in our Conceptual Approach to Remediation dated September 15, 2014. This pilot test will allow us to obtain needed design and effluent concentration information before we prepare the design for a full scale system. We do not have plans to install additional sections of horizontal slotted pipe before we complete the pilot test and analyze the test data.

13. *The Hazardous Waste Section understood from a telephone conversation with David Craig on September 24, 2014 that slug tests were going to carried out to determine how well the injection wells were going to work. Trex has provided no information on how the slug tests either demonstrate that the injection wells will work or how the pumping test described in the Conceptual Approach to Remediation will be designed based on the slug test. Provide a more detailed description of the proposed pilot study for the injection wells based on the results of the slug test. Note, the average groundwater flow rate of 2.8 to 3.0 feet per day is fast. Also describe what impact this speed has on the pilot study and the proposed injection wells.*

Response:

As described in Section 4.4 of our May 26, 2015 draft report, the referenced hydraulic conductivity range is generally equivalent to that of a fine to medium sand that might be found in a coastal plain setting and suggests that the saprolite and PWR beneath the site would be amenable to injection of either high or low viscosity reagents formulated to reduce the concentrations of VOCs in groundwater. This is all we said with regard to the slug test results. The slug test results will be included in the NCDENR Underground Injection Control (UIC) permit application for the site, in part because it is a required component of the application, but more importantly because the results indicate that injection of reagents is a feasible alternative for the site.

As described in our Conceptual Approach to Remediation dated September 15, 2014, prior to submitting the previously mentioned UIC injection permit application, we will conduct a pilot test to obtain site specific information regarding appropriate injection rates and expected radius of injection influence. The test will consist of pumping clean municipal water into a monitoring well that is screened within the target zone of contaminated groundwater to the north of the site, and measurement of water level changes in three small diameter observation wells to be installed in the vicinity of the monitoring well. These radius of influence measurements as well as water flow and pressure readings should greatly reduce uncertainty with regard to the appropriate volume of reagent to be purchased and injected, and will be referenced in the UIC injection permit application.

Please note that the hydraulic conductivity values determined for the site are not rates or speeds of groundwater flow. Rather, hydraulic conductivity is a measure of the capacity of porous media to transmit or conduct the movement of water. The rate or speed at which groundwater moves is dependent on hydraulic conductivity, however it is also dependent on

the hydraulic gradient and porosity that are representative of the media through which the groundwater moves.

14. *Figure 1 is not adequate for showing the topography of the site (3114 and 3124 Cullman Avenue). A better scale would be 1 inch equals 100 feet or 1 inch equals 200 feet.*

Response:

An additional figure showing topographic contours at a two foot contour interval and at a scale of 1 inch equals 100 feet has been included in the Updated Draft Phase III RFI Report.

15. *Figure 2 does not show "land use within the immediate vicinity of the properties" as stated in Section 2.1 unless you add the phase "as describe in Section 2.2".*

Response:

An additional figure that shows former property use on Cullman Avenue has been included in the Updated Draft Phase III RFI Report as a means of demonstrating that former chemical handling practices at other Cullman Avenue properties could have contributed to groundwater contamination observed in the Cullman Avenue area.

16. *In Section 2.4, the sentence, "Rainfall that does not run off, get absorbed by plants, or evaporate infiltrates the soil profile until it reaches the groundwater table, below which all porous saprolite or PWR and fractures within underlying bedrock are saturated with groundwater." appears to be missing some verbiage. Provide the complete sentence and include the use of proper verb tense.*

Response:

While the sentence in question is grammatically correct, it is somewhat long and conveys several concepts. Accordingly, we have revised the text to convey these concepts in two separate sentences as follows: "Rainfall that does not a) run off, b) get absorbed by plants, or c) evaporate, infiltrates the soil profile until it reaches the water table. Below the water table, all porous saprolite or PWR and fractures within underlying bedrock are saturated with groundwater."

Technical Comments

17. The topographic map provided in Figure 1 is insufficient to show the topography of the site. In addition to Figure 1, provide a topographic map with a scale of either 1' = 100' or 1' = 200'.

Response:

Please see response to NCDENR comment number 14.

18. The first sentence of the second paragraph of Section 2.4 states "Rainfall that does not run off, get absorbed by plants, <u>or evaporate infiltrates the soil profile</u> until it reaches the groundwater table…" Provide the missing words to clarify this sentence.

Response:

Please see response to NCDENR comment number 16.

19. Figures should be placed in the report in the order to which they are referred in the text.

Response:

This comment refers to our referencing the original cross sections (Figure 9 through 20) in Section 2.4 (Geology and Hydrogeology) of our May 26, 2015 draft report. For the Updated Draft Phase III RFI Report, we have prepared four separate cross-sections, two of which run approximately east-west, and two which run approximately north-south. These Figures are numbered 6 through 9 and are first referenced in Section 2.4. All of the figures in the updated draft report are provided in the section entitled "Figures" and are presented in the order in which they are referenced in the text.

20. Include the property boundaries on the cross sections and the inserts that show the cross-section lines on Figures 9 through 20.

Response:

Property boundaries are provided in the inserts provided in Figures 9 through 20 of the May 26, 2015 Draft Phase III RFI Report. In the attached Updated Draft Phase III RFI report we have consolidated the information provided in Figures 9 through 20 into four separate figures (see response to NCDENR comment #19), to make them easier to review, and to enable the reviewer to see concentrations of the primary COCs in four separate cross-section views.

21. Trex has provided two cross-sections going east west and only one going north south. Provide a second cross section running north south through wells 10A, 10B and 13A.

Response:

A second north south cross-section that includes wells 10A, 10B and 13A has been prepared and is included as Figure 18.

22. Section 4.2 states that it is "W&R's opinion that the presence of low concentrations of trihalomethane in the samples from PMW-22A and PMW-22B are the result of the use of municipal water during decontamination of the drilling equipment." W&R should clarify this conclusion. What drilling equipment was decontaminated on this property and why would the use of municipal water cause the presence of these contaminates?

Response:

The drilling equipment was decontaminated on the Trex property and the wash water from the decontamination process was captured and containerized in 55-gallon drums that were stored in a locked building (3114 Cullman Avenue) until they were transported off-site for disposal. Split spoon samplers used to collect soil samples during the drilling process were decontaminated in between uses at each drilling site, and the wash water used in this process was also containerized and stored in 3114 Cullman Avenue for proper disposal. The water used to decontaminate the drilling equipment was provided by the City of Charlotte municipal water system and was accessed via a spigot on the north side of 3114 Cullman Avenue.

According to Wikipedia "*Trihalomethanes are formed as a by-product predominantly when chlorine is used to disinfect water for drinking. They represent one group of chemicals generally referred to as disinfection by-products. They result from the reaction of chlorine or bromine with organic matter present in the water being treated."(*https://en.wikipedia.org/wiki/Trihalomethane)

Our conclusion with regard to the source of the trihalomethanes (THMs) in the samples from PMW-22A & B was based on this generally common knowledge about municipal water supplies. In order to confirm this assumption, we collected a sample of the municipal water during the September 2015 sampling event. This was the same source of municipal water that was used at the Trex site to decontaminate the drilling equipment in December 2014. Results of VOC analysis of the sample named "TAP" revealed the same THM compounds that were identified in the samples from PMW-22A & B in December 2014 and September 2015.

Wells PMW-22A & B are located adjacent to a well-maintained lawn on Mecklenburg County property located north of Little Sugar Creek. It is possible that the county waters this lawn periodically, and that the THMs observed in the groundwater samples from PMW-22A & B are the result of such lawn watering activities, or alternatively to a possible municipal water line leak in the area. A photograph of these wells and the adjacent lawn is provided below.

23. There are over two years between the data collected on existing wells and the data from the three new wells (20A, 20B, 21A, 21B, 22A, and 22B). Sample all existing wells and provide the data when you resample the new wells.

Response:

All of the existing monitoring wells that could be found and that could be accessed were sampled on September 22nd and 23rd per the September 15, 2015 letter from NCDENR to Trex regarding the request for extension to Notice of Technical Inadequacies. The analytical results for this recent sampling event are included in the attached Updated Draft Phase III RFI Report.

24. The first sentence in Section 5.1 states that "Review of the laboratory analytical results for groundwater samples obtained from the site in 2012 and 2014… reveals that the VOCs PCE, TCE, cis 1,2 DCE and 1,1 DCE are present at the most groundwater monitoring locations at concentrations that exceed their North Carolina groundwater standards…" This statement is ambiguous. Change "at the most" to "in most of the" or provide the appropriate wording to make your point.

Response:

We have revised the text accordingly in the attached Updated Draft Phase III RFI Report. The purpose of the sentence is to establish why we believe that the referenced VOCs are the primary COCs associated with the site, as we stated in the sentence that follows in both our May 26, 2015 Draft Phase III RFI Report and the updated draft report.

25. *Figures 5 through 8 show analytical values for PCE; TCE; 1,2 cis DCE; and 1,1 DCE; both shallow and deep; along with isoconcentration lines for each constituent. However, neither the Report nor the figures states whether the isoconcentration lines are for the shallow groundwater, the deep groundwater or total concentration. Provide isoconcentration lines for both the shallow and deep groundwater.*

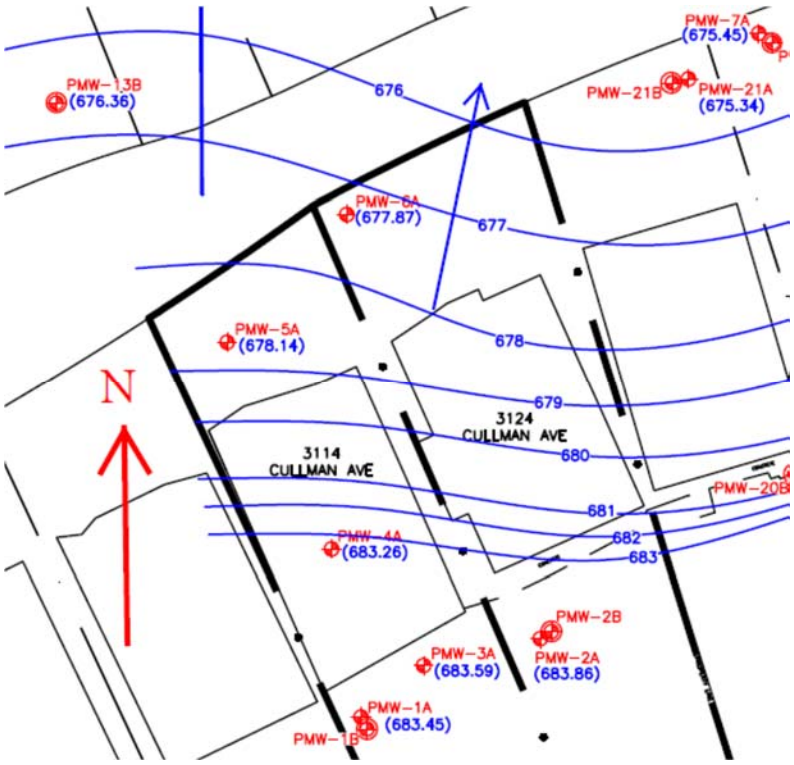
Response:

We have prepared revised figures that show isoconcentration lines for the constituents cited above and for 1,4 dioxane in shallow and deep groundwater in the attached updated Draft Phase III RFI Report.

26. *Section 5.1.2 states that the ground water direction is primarily north though "there appears to be a north-northeasterly component of flow in the vicinity of the 3114/4124 Cullman Avenue properties." Figure 3 shows a northerly and north-northwesterly flow of groundwater, while Figure 4 shows a mostly northerly flow with a slight deviation to the west. Please state how you determined that the flow had a north-northeasterly component of flow or correct the statement.*

Response:

The positions of the groundwater elevation contours in the vicinity of the 3114 and 3124 buildings shown in Figure 3 of our May 26, 2015 draft report indicate an area where the direction of groundwater flow is north-northeasterly, as shown in the modified excerpt of Figure 3 from that draft report provided below:



However, since preparation of that report, we have learned that the top of casing elevations provided to Trex and W&R by the previous consultant were erroneous. Contours of shallow and deep groundwater elevations derived from readings collected at the time of the September 2015 sampling event and using correct top of casing elevations are included the attached Updated Draft Phase III RFI Report.

27. Sections 5.1.1; 5.1.2; 5.13; and 5.1.4 state that PCE; TCE; cis 1,2 DCE; and 1,1 DCE (respectively) are not DNAPL based on the fact the concentration of each contaminate found at bedrock is below its solubility level. Whether a contaminate is a DNALP is based on its density with respect to water, not on its concentration in water. Remove all discussion regarding the above contaminates not being DNAPLs.

Response:

According to Wikipedia: "The extent of the solubility of a substance in a specific solvent is measured as the saturation concentration, where adding more solute does not increase the concentration of the solution and begins to precipitate the excess amount of solute." (https://en.wikipedia.org/wiki/Solubility). For example, in a case where water is the solvent and PCE is the solute, the concentration of PCE in the water cannot exceed its saturation concentration (also referred to as its solubility) of approximately 150 mg/L, regardless of how much additional PCE is added to the water. Accordingly, if the concentration of the solute in groundwater is less than its saturation concentration or solubility as is the case at the Trex site, then it is reasonable to conclude that DNAPL should not be present. If the concentration of the solute is equivalent to its saturation concentration, the density of the solute determines whether its non-aqueous phase liquid will float on top of the water surface, or sink to the bottom of the container holding the water.

While we disagree with the assertions in NCDENR comment number 27, we have removed all discussion of the presence or absence of DNAPL in the attached updated Draft Phase III RFI Report as requested.

28. The field notes state that there was a strong chlorinated odor during the drilling and purging of Well MW-20B. This should be mentioned in the report, along with any conclusions or concerns regarding the samples and analytical results from this well.

Response:

We have included a sentence on this observation in Sections 2.2, 3.1, and 3.3 of the attached Updated Draft Phase III RFI Report.

29. The printed copy of the Field Log Book (Appendix F) and the Slug Test Data Logger Records (Appendix G) are too small to read. Provide larger copies of these documents.

Response:

Larger copies of these documents have been provided in the printed version of the attached updated Draft Phase III RFI Report.

October 28, 2015

David Craig
EnviroAnalytics Group
1650 Des Peres Road
Suite 303
Saint Louis, MO 63131

RE: Narrative – Matrix Spike Results

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92228438	Rinsate 12/1/14	92228438008
		Rinsate 12/3/14	92228438009
		Rinsate 12/4/14	92228438010

Data Concern: The batch associated matrix spike and matrix spike duplicate did not meet laboratory control limits for several compounds.

Response: EPA Method 8260 required batch QC, Matrix spike 1345964 and 1345965, was performed on a sample that was not associated with this project. The matrix QC was performed on project 92227329. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29527.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92228438	SB-21-0.5'	92228438001
		SB-21-2'	92228438002
		SB-21-34'	92228438003
		SB-21-67'	92228438004
		SB-22-0.5'	92228438005
		SB-22-60'	92228438006
		SB-22-63'	92228438007

Data Concern: The batch associated matrix spike did not meet laboratory control limits for several compounds.

Response: EPA Method 8260 required batch QC, Matrix spike 1348898, was performed on a sample that was not associated with this project. The matrix QC was performed on project 92228401. The matrix QC data pertains only to the sample that is spiked and therefore has no

bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29571.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92229483	MW-20B	92229483001
		MW-21A	92229483002
		MW-21B	92229483003
		MW-22A	92229483004
		MW-22B	92229483005
		DUPLICATE - WATER	92229483011

Data Concern: The batch associated matrix spike did not meet laboratory control limits for a number of compounds.

Response: The sample on which the EPA Method 8260 required batch QC was performed was diluted for high target compound determination effecting the calculations for the spike recoveries. The compound failures were biased high. The sample, 92229483002, was non-detected for the compounds that failed biased high in the matrix spike and/or matrix spike duplicate. Bias high QC results do not effect Non-detected sample results. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29652.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92229483	RINSATE 12/08/14	92229483006
		RINSATE 12/09/14	92229483007
		RINSATE 12/11/14	92229483008
		RINSATE 12/12/14	92229483009
		MW-20A	92229483010

Data Concern: The batch associated matrix spike did not meet laboratory control limits for several compounds.

Response: EPA Method 8260 required batch QC, Matrix spike 1356494, was performed on a sample that was not associated with this project. The matrix QC was performed on project 92229567. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29726.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92229483	SB-22-85'	92229483012

Data Concern: The batch associated matrix spike did not meet laboratory control limits for several compounds.

Response: The sample, 92229483012, was non-detected for the compounds that failed biased high in the matrix spike and/or matrix spike duplicate. Bias high QC results do not effect non-detected sample results. A bias low recovery on methylene chloride may indicate a matrix effect for that compound. The laboratory control sample indicated that the analytical system was in control for methylene chloride. Methylene chloride results in the sample may be considered biased low due to a matrix interference with the analysis for that sample. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29682.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92229483	SB-20-0.5'	92229483013
		SB-20-36'	92229483014
		SB-20-38'	92229483015
		SB-20-60'	92229483016

Data Concern: The batch associated matrix spike did not meet laboratory control limits for several compounds.

Response: EPA Method 8260 required batch QC, Matrix spike 1356205, was performed on a sample that was not associated with this project. The matrix QC was performed on project 92229349. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29703.

Sincerely,

Cheryl Johnson

Cheryl Johnson
Quality Manager

WithersRavenel
Our People. Your Success.

UPDATED DRAFT

Phase III RCRA Facility Investigation Report

Former Detrex Facility

3114 and 3124 Cullman Avenue
Charlotte, Mecklenburg County, NC

Prepared for:

Trex Properties, LLC.
1650 Des Peres Road, Suite 303
Saint Louis, Missouri 63131

Prepared by:

Withers & Ravenel, Inc.
1410 Commonwealth Drive, Suite 101
Wilmington, NC 28403

November 12, 2015

WithersRavenel

Our People. Your Success.

November 12, 2015

Mr. David Craig
Trex Properties, LLC
1650 Des Peres Road, Suite 303
St. Louis, MO 63131

Subject: Updated Draft Phase III RCRA Facility Investigation Report
3114 and 3124 Cullman Avenue
Charlotte, North Carolina
EPA ID # NCD 049 773 245
W&R Project No.: 03130430.01

Dear Mr. Craig:

WithersRavenel, Inc. (W&R) respectfully submits this Updated Draft Phase III RCRA Facility Investigation (RFI) Report regarding the former Detrex facility located at 3114 and 3124 Cullman Avenue in Charlotte, North Carolina. The activities documented in the attached report were conducted in substantial conformance with the Phase III RCRA Facility Investigation Sampling and Analysis Plan prepared by EnviroAnalytics Group, LLC (EAG) dated April 25, 2014, which was approved by NCDENR on May 1, 2014, and with the Procedures for Conducting and Analyzing Slug Tests dated November 10, 2014, which was approved by NCDENR on November 25, 2014.

Additionally, this updated draft report addresses items identified by NCDENR in their August 18, 2015 Notice of Technical Inadequacy regarding our original Draft Phase III RFI Report dated May 26, 2015. The enclosed updated draft report also discusses the results of a groundwater sampling event conducted in September 2015, which included collection and analysis of the majority of monitoring wells installed on and in the vicinity of the subject site.

Should you have any comments or questions regarding this submittal, please do not hesitate to contact us at (910) 256-9277.

Sincerely,

WithersRavenel

NORTH CAROLINA LICENSED SEAL 980 GEOLOGIST BRIAN J. BELLIS

Brian J. Bellis, P.G.
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N.C. Engineering Board No. C-0832

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1.0 INTRODUCTION

This Updated Draft Phase III RCRA Facility Investigation (RFI) Report documents environmental investigation activities that were conducted at the site by WithersRavenel, Inc. (W&R) on behalf of Trex Properties, LLC (Trex) in December 2014, January 2015, August 2015 and September 2015. These activities are described in the April 25, 2014 Sampling and Analysis Plan (SAP), which was approved by the North Carolina Department of Environmental Quality (formerly the North Carolina Department of Environment and Natural Resources or NCDENR) Hazardous Waste Section on May 1, 2014, and the Procedures for Conducting and Analyzing Slug Tests dated November 10, 2014, which was approved by NCDENR on November 25, 2014.

The environmental investigation activities described and documented in this report include the following:

- Installation of three pairs of shallow and deep groundwater monitoring wells at off-site properties to the east and northeast of the subject site.
- Collection and analysis of four soil samples for volatile organic compounds (VOCs) from each of the off-site monitoring well pair locations.
- Development of each of the six newly installed wells and collection of groundwater samples from the new and existing monitoring wells for analysis of VOCs.
- Management and disposal of investigation derived waste.
- Completion of in-situ hydraulic conductivity tests (slug tests) at five existing monitoring well locations.
- Determination of the horizontal coordinates of the new monitoring wells and existing monitoring wells to the south of the site using global positioning satellite instrumentation.
- Determination of the ground surface and top of casing elevations for the new monitoring wells using standard surveying techniques.
- Review and tabulation of the laboratory analytical results.
- Preparation of maps and cross-sections to illustrate direction of groundwater flow and the distribution of VOCs in groundwater proximal to the site.
- Calculation of hydraulic conductivity values for the geologic materials that comprise the unconfined aquifer that underlies the site, and
- Preparation of this Updated Draft Phase III RFI Report.

2.0 SITE SETTING

2.1 SITE DESCRIPTION

The facility at 3114 Cullman Avenue has been used by Detrex, Inc. to treat and recycle several types of hazardous waste under a Resource Conservation and Recovery Act (RCRA) Part B permit since 1983. Products, storage containers, and non-RCRA/non-hazardous solid wastes such as used oil were formerly stored within the adjacent building located at 3124 Cullman Avenue. The two properties comprise approximately 1.68 acres and accommodate two warehouse type structures approximately 11,494 and 11,242 square feet in size. Both properties were acquired by Trex on June 18, 2013 and are located east of but within the limits of the City of Charlotte. The general locations of the properties and surrounding topography, roads and railways are shown in **Figure 1.**

A one inch equals one hundred feet scale map showing the land surface topography at a two foot contour interval in the vicinity of the site is provided in **Figure 2.** This figure also shows the locations of groundwater monitoring wells installed as part of the RCRA Facility Investigation process. The lowest ground surface elevation contours shown in **Figure 2** occur in the vicinity of Little Sugar Creek, which is located to the north-northwest of Cullman Avenue. Higher ground surface elevations occur to the north and south of the creek, which implies that the direction of storm-water water runoff is towards the creek from both the north and south.

2.2 SURROUNDING LAND USE

Prior to 2014 property within a 1,000-foot radius of the 3114 and 3124 Cullman Avenue properties was zoned I-1 or I-2 for industrial use, with residential land use approximately 1,200 feet to the northeast and southeast of the subject property. In 2014 construction of a new residential complex, "Yards at the NoDa", began to the south-southeast of the site. The other properties on Cullman Avenue are currently vacant undeveloped parcels, or are used for commercial or industrial purposes. The adjacent building to the east of 3124 Cullman Avenue is currently owned and used by a religious organization known as the Nexus Church. The adjacent building to the west of 3114 Cullman Avenue is currently occupied by a company named Leather Trimmings, which acquires, sorts and distributes leather products.

Figure 3 shows former property use in the immediate vicinity of the 3114 and 3124 Cullman Avenue properties, and the locations of permanent monitoring wells installed on some of these properties. Because it was suspected that other buildings in the vicinity of the site may have also handled chemicals or solvents in the past, a review of city directory listings for the City of Charlotte was conducted to see what types of business formerly occupied the buildings. These listings were provided by Environmental Data Resources, Inc. and are included in **Appendix A**. The results of this review are summarized in **Figure 3**, which indicates the names of former Cullman Avenue businesses that may have handled chemicals or petroleum products in the past, and when they occupied the properties.

The property at 3144 Cullman Avenue is adjacent to and east of the 3124 Cullman Avenue property and is currently used by a religious organization known as the Nexus Church. The city directory search revealed that the first occupant of the building at 3144 Cullman Avenue was a company named Nyanza Color and Chemical Company (Nyanza). Like the Trex buildings at 3114 and 3124 Cullman Avenue, the Nyanza building was designed to receive liquid or solid products via a rail spur and rear loading docks, store the products in the approximately 10,000 square foot warehouse space, and distribute the products via tractor trailer trucks which could access the building via elevated loading docks in the front of the building. Below is a photograph of the former rear loading dock for the Nyanza building taken at the time wells PMW-20A & B were installed in December 2014.

The cinder blocks that help comprise the rear loading dock at 3144 Cullman Avenue shown in the above photograph show signs of pitting and deterioration, which may have been the result of past spills of chemicals by a previous occupant of the building.

Additionally, the W&R field representative and drilling crew that installed PMW-20A & B noted the presence of strong solvent odors coming from the soil cuttings produced during the drilling process, and W&R noted the presence of strong solvent odors emanating from well PMW-20A as a groundwater sample from the well was being collected on December 23, 2014. These observations and the presence of a rail spur and loading dock behind the building at 3144 Cullman Avenue imply that the building was designed and built to receive and store products delivered by rail, and that a previous release of solvent or other corrosive material had occurred near the rear loading dock.

The table below provides the names of businesses that according to the city directory search, occupied the building at 3144 Cullman Avenue. Businesses that likely handled chemicals, hazardous waste or petroleum products or wastes in the past are highlighted in red, and the basis for the assumptions are provided in the notes below the table.

Former Businesses Located at 3144 Cullman Avenue

Business/Company Name	Years of Occupancy	Chemicals Likely Handled
Nexus Church	2008 to Present	Paints and general cleaning supplies
Bickenback	2008	Unknown
No Listing	2005	Unknown
Flow Fabrication (overflow)	1994	Unknown
Davis Marketing	1989	Unknown
Lyf Tym Building Products	1979-1984	Unknown
Thompson Distributing Co.	1969-1974	Unknown
Nyanza Color and Chemical Co	1961-1964	Dyes and solvents for textile industry[1,2,3]

Notes: 1: http://www.colorantshistory.org/Nyanza.html
2:http://yosemite.epa.gov/R1/npl_pad.nsf/31c4fec03a0762d285256bb80076489c/e720462345729a4f8525691f0063f6e1!OpenDocument
3: Company operated before the advent of environmental regulations and likely handled chemicals including dyes and chlorinated solvents used in the textile industry.

According to Mecklenburg County records for this property, the building was constructed in 1960, and according to the Charlotte city directories, the first occupant of the building was

Nyanza. Historical information on Nyanza, which can be accessed through the above hyperlinks, indicates that the company's product line in 1957 included various dyes and textile chemicals. These were likely manufactured at the company's main plant in Ashland Massachusetts, which was first occupied in 1917. Poor waste handling practices and lack of environmental rules regarding proper disposal of wastes that contained such chemicals led to the placement of the Ashland site on the EPA National Priorities List in 1982, after Nyanza had ceased operations at the approximately 35 acre site in 1978. According to the EPA summary document on the "Nyanza Chemical Waste Dump" which can be accessed via the hyperlink in Note 2 above:

"The groundwater, soil, sediments, and surface water are contaminated with heavy metals and chlorinated organics. The groundwater and soil are also contaminated with spent solvents and chemical wastes. Vapors originating from spent solvents in shallow groundwater have also been detected inside some area buildings. Health threats include direct contact with or accidental ingestion of contaminated groundwater or soil, and inhalation of vapors inside some area buildings. Sudbury River fish are contaminated with mercury."

As discussed in our May 26, 2015 draft report, the main contaminant of concern discovered in soil and groundwater from the 3144 Cullman Avenue site is trichloroethylene. According to Toxipedia (http://www.toxipedia.org/display/toxipedia/Trichloroethylene):

"Trichloroethylene has also been used by textile industries. Their main use of trichloroethylene is to clean cotton, wool and other fabrics. It is also used as a solvent for waterless dying. Trichloroethylene is also found and used in products such as dyes, printing inks, paints, adhesives, paint removers, typewriter correction fluids, as well as spot removers."

Given the long association of trichloroethylene with the textile industry, it is reasonable to assume that it was one of the chemical products handled or distributed by Nyanza. It is important to note that at the time the Nyanza Color and Chemical Company occupied the building at 3144 Cullman Avenue there were virtually no state or federal regulations that required reporting of accidental or intentional chemical spills. Therefore is reasonable to conclude that the likely source of the soil and groundwater contamination discovered behind the building, and as described in our May 26, 2015 draft report, is the former chemical handling practices followed by the former Nyanza employees.

Norfolk Southern railroad lines and a City of Charlotte railroad line that is currently under construction are located within the easement that comprises the southern boundary of the

subject site. The former trucking terminal to the south of the railroad tracks is the current location of the new residential Yards at the NoDa complex. Cullman Avenue forms the northern boundary of the site beyond which are vacant lots that were in use as a temporary storage area for railroad construction equipment at the time the field activities documented in this report were conducted.

The building that is located at 3110 Cullman Avenue which is adjacent to the west side of 3114 Cullman Avenue, is currently used for sorting, storing and distributing leather products. The table below provides the names of businesses that according to the city directory search, occupied the building at 3110 Cullman Avenue. Businesses that likely handled chemicals, hazardous waste or petroleum products or wastes in the past are highlighted in red, and the basis for the assumptions are provided in the notes below the table.

Former Businesses Located at 3110 Cullman Avenue

Business/Company Name	Years of Occupancy	Chemicals Likely Handled
Leather Trimmings	1999-Present	Unknown
Multi Graphics, Inc.	1989-1994	Inks, cleaners and printing wastes[1]
Potamac Wall Coverings, Inc.	1979-1984	Unknown
Spoon LP, Inc.	1974	Unknown
Courier Journal Lithographic	1964-1969	Inks, cleaners and printing wastes[2]

Notes: 1: EPA Notification of Hazardous Activity Form: Small Quantity Generator of Hazardous Waste
2: General knowledge of print shop operations

Review of past Charlotte city directory listings for the nearby properties on Cullman Avenue indicate that former businesses that occupied 10 of the properties shown on **Figure 3** were involved in either the handling of chemical products, or the generation of hazardous or petroleum related wastes. Mishandling of such products or wastes at these sites could have contributed to the extent of groundwater contamination observed in the Cullman Avenue area.

2.3 TOPOGRAPHY, SURFACE WATER AND DRAINAGE

The subject properties are located on relatively flat land, which according to the Derita, North Carolina USGS 7.5 minute Topographic Map of the area (**Figure 1**) occurs at an elevation approximately 690 feet above the North American Vertical Datum of 1988. As shown in **Figure**

2, the land surface topography rises sharply at the southern property boundary where the railroad lines are located, and slopes gently downward to the north towards Little Sugar Creek.

Little Sugar Creek and associated tributaries are the primary surface water features in the immediate vicinity of the site. The northern boundaries of the subject properties are located approximately 150 feet to the south of Little Sugar Creek, which flows to the west towards downtown Charlotte.

2.4 GEOLOGY and HYDROGEOLOGY

The site is located within a geologic terrain known as the Charlotte Belt, which is part of the Piedmont Physiographic Province. The topography of the Piedmont is commonly characterized by low rounded hills and long northeast to southwest trending ridges with incised creek channels. The Charlotte Belt consists primarily of moderately metamorphosed coarse grained igneous rocks including granite, diorite and gabbro. The soil profile in the Piedmont is formed by the in-place chemical and physical weathering of the underlying rock. The most highly weathered materials occur near the land surface and typically contain appreciable amounts of clay generated through chemical alteration of feldspar minerals that are part of the parent rock.

With increasing depth in the soil profile the degree of weathering and amount of clay minerals decreases and the appearance and texture of the soil begin to resemble those of the underlying parent rock. This material which has the appearance of rock but which is unconsolidated is known as saprolite. With increasing depth the saprolite becomes more consolidated until the point where it can no longer be penetrated by mechanical drilling machinery such as direct push equipment or hollow stem augers. Geologic material below this point is referred to as partially weathered rock (PWR), which is often the most permeable part of the soil profile. The PWR becomes more consolidated with depth and gradually transitions into fully consolidated bedrock.

Rainfall that does not a) run off, b) get absorbed by plants, or c) evaporate, infiltrates the soil profile until it reaches the water table. Below the water table, all porous saprolite or PWR and fractures within underlying bedrock are saturated with groundwater. These saturated subsurface materials comprise the unconfined aquifer that underlies the site. The Geologic Map of North Carolina (1985) and descriptions of rock samples obtained from deeper well

borings at the site by previous investigators suggest that the parent rock in the area is a meta-diorite, which is a coarse grained igneous rock that has been moderately metamorphosed. Rock of this type would be expected to weather into a typical Piedmont soil profile that coarsens with depth and that does not contain confining layers. Therefore horizontal layers that restrict the vertical movement of groundwater should not be present within the aquifer that underlies the site.

The presence of fractures in the upper portion of bedrock in Piedmont settings in North Carolina is not uncommon and is to be expected. However, experience has shown that attempting to fully characterize the nature and extent of fractures under a site such as this would be a cost prohibitive exercise of questionable value. Experience at this and other Piedmont sites has shown that the direction of groundwater flow through partially weathered rock and competent bedrock is controlled by hydraulic gradients, and that groundwater will move from areas of higher hydraulic head (groundwater at higher elevation) to areas of lower hydraulic head. This is true for flow through either porous or fractured media.

Table 1 contains information on the construction of the permanent monitoring wells installed in the vicinity of the site, including which portion of the aquifer the well screen is set within (saprolite, PWR or bedrock). **Table 2** contains depth to groundwater measurements and groundwater elevations at well locations that were accessible on September 22 and 23, 2015. The groundwater elevation data for the shallow wells screened within saprolite are plotted and contoured in **Figure 4** to depict the direction of groundwater flow in the shallower portion of the aquifer.

The groundwater elevation data for wells screened within the PWR portion of the aquifer are plotted and contoured in **Figure 5** to illustrate the direction of groundwater flow in the deeper portion of the aquifer. The positions of the groundwater elevation contours on both **Figures 4** and **5** are very similar and both imply northerly directions of groundwater flow towards Little Sugar Creek, which makes intuitive sense and is consistent with previous determinations.

The groundwater elevations shown in **Table 2** and on **Figures 4** and **5** indicate that the highest groundwater elevation in the saprolite/partially weathered rock portion of the aquifer was measured at PMW-20A, and that highest groundwater elevation in the bedrock was measured at PMW-20B. Therefore, we expect that groundwater flows away from this area towards the north and northwest as illustrated in **Figures 4** and **5**. Additionally, we would not expect

groundwater occurring at lower elevations to flow towards the PMW-20 well pair as the hydraulic head relationship would not allow such flow.

Little Sugar Creek is a perennial surface water feature that has been present at its current location for a very long time. The creek occupies the topographically lowest area between higher topographic elevations to the north and south. Water within the creek comes from surface water runoff from the north, south and east, and flows to the west towards the city of Charlotte. The creek is considered to be a perennial stream because it exhibits water flow throughout the year, even during dryer times of the year. Water present within the stream during dryer times comes from groundwater discharge from both north and south sides of the creek. The creek is the area where groundwater flowing southward from the north meets groundwater flowing northward from the south, as illustrated in the groundwater elevation contour maps discussed above.

As shown in **Table 2**, the hydraulic head or groundwater elevation in the deeper portion of the aquifer at well pairs located proximal to Little Sugar Creek is higher than that in the shallow portion of the aquifer, which indicates the presence of an upward component of groundwater flow. This is the case at PMW-7A & B, PMW-8A & B, PMW-9A, B & C, PMW-10A & B, PMW-12A & B, PMW-21A & B, and PMW-22A & B. The groundwater elevation measured in PMW-11A was higher than that in deeper well PMW-11B when the water levels were measured on September 22, 2015. However, when these wells were measured during the September 25, 2012 groundwater sampling event documented in Amec's April 5, 2015 Draft Interim Report Addendum, the water level in deeper well PMW-11B was 0.27 feet higher than that in PMW-11A, indicating the presence of an upward component of groundwater flow.

Conversely, the hydraulic head in the shallow portion of the aquifer is higher than that in the deeper portion at locations that are distant from the creek, particularly PMW-1A & B, PMW-2A & B, and PMW-20A & B. This is typical of recharge areas where there is a downward component of groundwater flow.

Additionally, the absence of contaminants associated with the site in two sets of groundwater samples from off-site wells PMW-22A & B, which are located on the north side of the creek, indicates that Little Sugar Creek is acting as a barrier that prevents groundwater from south of the creek from moving further to the north. The concept that groundwater in the vicinity of the site is discharging into Little Sugar Creek is supported by previous analyses of surface

water from the creek provided in Amec's 2012 Phase II Interim Report, which show detectable concentrations of contaminants in all samples collected at various locations along the creek.

All of the lines of evidence described above imply that Little Sugar Creek acts not only as a groundwater discharge area, but as a hydraulic barrier that prevents the movement of groundwater from the south side of the creek to its north side, and vice versa.

The geologic cross-sections provided in **Figures 6 through 9** provide four different views of the subsurface, and variations in the approximate thickness of the saprolite and PWR across the area of investigation. The cross-sections also show the variations in the depth to competent bedrock across the site. In general, the depth to bedrock increases with proximity to Little Sugar Creek.

3.0 PHASE III RFI ACTIVITIES

3.1 SOIL SAMPLES FROM OFF-SITE MONITORING WELL BORINGS

In accordance with the Revised SAP and its letter of approval from NCDENR dated May 1, 2014 and a subsequent letter from NCDENR dated September 30, 2014, soil samples were collected from each of the three off-site monitoring well pair locations. The objectives of the soil sampling were to provide a means of evaluating the range of VOC concentrations present within the unsaturated and saturated soil profile at the three off-site locations, and to provide analytical data necessary to properly characterize the soil cuttings from the well borings for disposal.

Samples of unconsolidated soil were collected using a properly decontaminated split-spoon sampler during the advancement of the borings for the monitoring wells. At each of the three locations, a soil sample from the zero to six-inch depth horizon was placed into appropriate laboratory prepared sample containers for analysis of VOCs by Pace Analytical Services, Inc. (Pace) according to EPA Method 8260B with Method 5030 preparation. Soil samples were then collected continuously at two foot intervals until auger refusal, which indicated that the depth to the top of PWR, and the total depth of the shallow or "A" well of the pair had been reached. Screening samples were placed within zip-lock bags and were tested for the presence of organic vapors using a Foxboro TVA 1000 organic vapor analyzer (TVA). Soil samples from the same interval that exhibited the highest TVA response were placed into appropriate laboratory prepared sample containers for VOC analysis of soils. Additionally, the samples collected nearest to the interface between the saprolite and PWR, which was the base of the shallow well were submitted for laboratory analysis of VOCs.

Samples of the material near the interface between the PWR and bedrock could not be collected using split spoon samplers due to its hardness and consolidated nature. The boring for the deep or "B" monitoring well were drilled using air rotary drilling methods as described in the Revised SAP. Grab samples of the rock cuttings produced when the driller indicated that competent bedrock had been reached were collected and submitted for laboratory analysis of VOCs.

Four soil samples were collected (as further described in Section 4.1) from the location where permanent monitoring wells PMW-20A and PMW-20B were installed on December 9 and 11,

2014. As noted in **Section 2.2**, the drilling crew and W&R representative noted the presence of strong solvent odors as the borings for these wells were being advanced.

Likewise, four soil samples were collected from locations PMW-21A and PMW-21B on December 1 and 3, 2014, and four soil samples were collected from locations PMW-22A and PMW-22B on December 3, 4 and 8, 2014. Field notes recorded by the W&R representative which contain descriptions of the soils and corresponding TVA readings are provided in **Appendix B**. This information is also provided in the soil boring logs contained in **Appendix C**. The laboratory analytical reports are included in **Appendix D** and the results are discussed in **Section 4** of this report.

3.2 INSTALLATION OF PERMANENT GROUNDWATER MONITORING WELLS

Permanent monitoring wells PMW-20A & 20B, PMW-21A & 21B, and PMW-22A & 22B were constructed between December 2 and 11, 2014 using hollow stem auger and air rotary drilling machinery operated by North Carolina Certified Well Contractor Saedacco, Inc.

The shallower well of each pair is a single-cased Type II monitoring well. The borings for the shallow wells were drilled using 8.25-inch outer diameter (OD) hollow-stem augers and were advanced to the depth where auger refusal was encountered, which is typically where the top of PWR occurs. The Type II wells consist of two-inch inside diameter (ID), Schedule 40 polyvinyl chloride (PVC) well casing and the bottom five-foot section of each well is a manufactured well screen with 0.010-inch machined slots and a bottom cap. Clean filter sand was placed within the annular space around each well screen to a depth approximately 2 foot above the top of the screen. A minimum two-foot thickness of bentonite pellets was then placed in the annular space above the filter sand and was allowed to hydrate and swell. The remaining annular space was then filled with cement-bentonite grout using a tremie-pipe. The driller then installed either a flush mounted or aboveground locking protective cover to complete the installation. Wells PWM-20A and PMW-22A are equipped with aboveground protective covers. Well PMW-21A is equipped with a flush mounted protective cover because it is located in a paved parking area. Pertinent well construction information is summarized in **Table 1**. Field notes and photographs taken by the W&R representative during the well installation process are provided in **Appendix B**, and the well completion records are included in **Appendix C.** Bollards were subsequently installed for well pairs PMW-20A & B and PMW-22A & B after completion of the December 2014 groundwater sampling event.

The deeper well of each pair is a double cased Type III well. The outer four-inch ID PVC casing was set within a borehole drilled using a combination of hollow-stem auger and air rotary drilling techniques. The boring was first advanced using 8.25-inch OD augers to the depth of refusal, which was the termination depth of the paired shallow well. A smaller diameter boring was then advanced through the augers an additional five feet into the PWR using an approximately six-inch diameter air rotary drill bit. The outer four-inch ID PVC casing was then lowered into the borehole, the augers were removed and the casing was tremie-grouted into place.

After the grout around the outer casing had cured for at least 24 hours, the boring was advanced below the base of the outer casing using an approximately 3.5-inch diameter air rotary drill bit. The air rotary boring was advanced until the driller determined that competent bedrock had been encountered, provided the inner boring had been advanced at least 15 feet below the base of the outer casing. In the case of well PMW-20B, competent bedrock was determined to occur at the depth of hollow-stem auger refusal. Therefore the base of the outer casing was set five feet into bedrock and the inner boring for this well was drilled an additional 15 feet into the bedrock.

During the air rotary drilling of the inner boring for PMW-21B, around the time when the driller indicated that bedrock had been encountered, the steel drill bit became detached from the drill rods. After several attempts to retrieve the drill bit, W&R directed the driller to leave the drill bit at the bottom of the hole, to place approximately one-foot of filter sand above the bit, and install the monitoring well above the sand. The presence of a steel drilling bit buried beneath the bottom of PMW-21B should not have any influence on the concentrations of COCs measured in groundwater at this location. This opinion is based on the type of COCs at this site which should not be influenced by the presence of steel below the base of the well. The outer casing for the Type III well had been grouted into place at the time the incident occurred. Because it was apparent that the presence of a buried steel drilling bit should not influence future groundwater sample analytical results, PMW-21B was installed above the buried drill bit rather than abandon an otherwise suitable monitoring well boring and generate additional potentially hazardous IDW.

After the termination depth of the inner boring had been reached, a five foot section of two-inch ID PVC well screen with 0.01-inch machined slots attached to an appropriate length of two-inch ID PVC riser pipe was lowered into the boring. Filter sand was then placed in the annular space between the well screen and the boring to a depth at least two feet above the

top of the screen. An approximately 10-foot thickness of bentonite pellets was then placed in the annular space above the filter sand and the remaining annular space was filled with bentonite-cement grout using a tremie-pipe. The driller then installed either a flush mounted or aboveground locking protective cover. Type III wells PWM-20B and PMW-22B are equipped with aboveground protective covers. Type III well PMW-21B is equipped with a flush mounted protective cover because it is located in a paved parking area. Pertinent well construction information is summarized in **Table 1**. Field notes recorded by the W&R representative during the well installation process are provided in **Appendix B**, and the well completion records are included in **Appendix C.**

The permanent monitoring wells were installed at the following locations, which are shown on **Figure 2**:

- **PMW-20A** – Installed to a depth of 39 feet below ground surface (bgs) adjacent to the southern loading dock of the Nexus Church building adjacent approximately 80 feet east of the 3124 Cullman Avenue property.
- **PMW-20B** – Installed to a depth of 60 feet bgs and about five feet to the west of PMW-20A.
- **PMW-21A** – Installed to a depth of 35 feet bgs within the parking lot to the north of the Nexus Church building 75 feet east of the 3124 Cullman Ave property boundary.
- **PMW-21B** – Installed to a depth of 67 feet bgs within the parking lot to the north of the Nexus Church building and about five feet to the west of PMW-21A.
- **PMW-22A** – Installed to a depth of 63 feet bgs on property owned by Mecklenburg County on the north side of Little Sugar Creek.
- **PMW-22B** – Installed to a depth of 86 feet bgs on property owned by Mecklenburg County on the north side of Little Sugar Creek and about five feet to the north of PMW-22A.

The new permanent monitoring wells were developed using a bailer as surge block and by removing groundwater with a peristaltic pump until the water produced was relatively clear of visible sediment.

3.3 GROUNDWATER SAMPLING

On December 11 and 12, 2014, W&R personnel sampled new permanent monitoring wells PMW-20A and -20B, PMW-21A and -21B and PMW-22A and -22B. On September 22 and 23, 2015 these wells were sampled again at the request of NCDENR. Per NCDENR's request, existing wells PMW-1A & B, PMW-2A & B, PMW-3A, PMW-5A, PMW-6A, PMW-7A & B, PMW-8A & B, PMW-9A, B & C, PMW-10A & B, PMW-11A & B, PMW-12A & B, PMW-13A, and PMW-18B were also sampled on either September 22 or 23, 2015.

Well PMW-4A was found to be dry at the time W&R attempted to collect a sample from the well on September 23, 2015. A photograph that shows the mud/silt that was observed on the tubing that was lowered into the well in the attempt to collect a groundwater sample is provided in Appendix B.

Wells PMW-14A & B are reported to be located in the wooded area adjacent to the south side of Little Sugar Creek, about 300 feet west of the point where the Norfolk Southern railroad bridge crosses the creek. Dense vegetation and safety concerns prevented W&R sampling personnel from locating these wells (see photos in Appendix B).

Wells PMW-16A & B and PMW-17A & B are reportedly located on a vacant parcel to the east of the site, however, they could not be located during the September 2015 sampling event. This parcel is currently being used as a construction equipment storage area for nearby rail construction activities and almost the entire area has been covered by fill dirt and crushed stone to accommodate the movement and storage of heavy equipment (see photos in Appendix B). Trex was recently notified by the City of Charlotte Engineering Department that wells PMW-17A & B have been destroyed beyond repair, and that the consultant for the department is still looking for wells PMW-16A &B.

Well PMW-18A could not be sampled because the aboveground steel protective casing had been bent, apparently by contact with rail construction equipment. This apparently caused the well casing to break because the W&R sampling personnel could not lower water level instrumentation or tubing to collect a groundwater sample past a depth of about five feet below the top of the well casing. Photographs showing the condition of well PMW-18A are provided in Appendix B. Trex is currently in communication the county's insurance company with regard to repair and replacement of wells PMW-18A, and PMW-17A & B. If it is determined

that PMW16A and 16B are destroyed or damaged beyond repair, a claim will also be submitted for these wells.

Prior to purging and sampling each well, the depth to groundwater was measured to the nearest 0.01 foot using a properly decontaminated electronic water level indicator. Purging was conducted using the low flow/low stress purging method following the United States Environmental Protection Agency (USEPA) *Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells Guidelines* and as described in the SAP. Each monitoring well was purged using a peristaltic pump and new polyethylene tubing. As mentioned in Sections 2.2 and 3.1, solvent odors were noted during the collection of the December 2014 groundwater sample from well PMW-20A.

General groundwater quality parameters temperature, pH, specific conductance, dissolved oxygen, and oxidation/reduction potential were measured with a YSI Professional Plus multi-parameter meter, and turbidity was measured using a Lutron Model 2016 turbidity meter. The water quality parameter readings obtained while purging each well are included on the Groundwater Sampling Forms included in Appendix E. Purging was deemed to be complete when the parameter values did not vary by more than 10% between consecutive readings.

Following the completion of purging of each well, a groundwater sample was collected for laboratory analysis. The samples were decanted from the pump tubing directly into laboratory provided 40 ml volatile organic analysis vials containing an appropriate amount of hydrochloric acid preservative. The sample vials were then placed in an iced-filled cooler that was transported to Pace's laboratory in Huntersville, North Carolina where they were analyzed for VOCs by EPA Method 8260. The samples collected in September 2015 were also analyzed for 1,4 dioxane. The laboratory analytical reports are included in Appendix D and the results are discussed in Section 4 of this report.

3.4 INVESTIGATION DERIVED WASTE DISPOSAL

All investigation derived waste (IDW) generated during well installation, development, sampling and testing was placed into reconditioned 55-gallon Department of Transportation approved open-top drums. The IDW primarily consisted of soil cuttings from the monitoring well borings and water generated during drilling, development and sampling of the wells, and from decontamination of drilling and sampling equipment. A small amount of personnel protective equipment (nitrile gloves) and sampling equipment (used zip lock bags and polyethylene tubing) was also placed into the drums that contained IDW soils.

A yellow and red hazardous waste label was affixed to each drum and contained information regarding the drum contents, date generated and ownership information. A total of 72 drums of IDW were generated, 35 of which contained IDW liquid (water) and 37 of which contained IDW soil, PPE and used sampling equipment. The drums were stored inside the 3114 Cullman Avenue building where they stayed until laboratory results for the soil and groundwater samples became available.

Trex arranged for the transportation and removal of 16 drums of non-hazardous IDW soil, and 34 drums of hazardous IDW groundwater. The soils were transported to Southern Logistics and Environmental, LLC in Greensboro, NC for disposal, and the groundwater was transported to EWS Alabama, Inc. in Glencoe, AL for disposal. Copies of the waste disposal manifests are included in **Appendix F**. Trex also arranged for the proper disposal of the remaining 22 drums of IDW generated during the December 2014 field work, and the one drum of IDW liquid generated during the September 2015 groundwater sampling work. Copies of these manifests are also included in **Appendix F**.

3.5 SLUG TESTING

On January 27, 2015 W&R personnel conducted slug tests within shallow wells PMW-1A and PMW-10A whose screened intervals intersect saturated saprolite, deeper wells PMW-1B and PMW-10B whose screened intervals intersect PWR, and deep well PMW-13B which is screened in the upper portion of competent bedrock. The purpose of conducting these tests was to provide a means of estimating the hydraulic conductivity of the saprolite, PWR and bedrock portions of the aquifer that underlies the site.

The slug tests were performed in substantial accordance with the Procedures for Conducting and Analyzing Slug Tests dated November 10, 2014 and its NCDENR approval letter dated November 25, 2014. Deviations from the procedures are discussed in **Section 6**. The relatively rapid rate of water level recovery in the saprolite and PWR wells necessitated the use of a pressure transducer and data logger to obtain usable early test water level recovery data. As a QA/QC check, manual water level measurements were collected as the slug in and slug out test data were being measured and recorded by the pressure transducer and data logger at the saprolite and PWR well locations.

The rate of water level recovery within bedrock well PMW-13B was slow enough to allow manual measurement of water level recovery data alone. Copies of field notes and photographs taken during the slug testing activities are provided in **Appendix G**. Pertinent

test information and water level recovery data recorded by the data logger are included in Appendix H, as are the manual readings recorded at each well location. Calculations of hydraulic conductivity estimates from the test data are provided in Appendix I and are discussed in Section 4.

3.6 LOCATIONS AND ELEVATIONS OF NEW MONITORING WELLS

On January 28, 2015 W&R personnel determined the horizontal coordinates of each newly installed well using Trimble® global positioning satellite instrumentation. The horizontal coordinates are referenced to the North Carolina grid system and are considered accurate to within ± one meter. The coordinates determined for each newly installed monitoring well are shown on the well completion reports in Appendix B, and were incorporated into the AutoCAD file from which the site maps in this report were produced. Construction data for all wells are provided in Table 2.

The top of well casing and ground surface elevations for each of the newly installed wells were determined using a standard builder's level and survey rod. Rod readings at each location were made to the nearest one one-hundredth of a foot and were compared to the rod reading obtained for the top of well casing for existing well PMW-7B where the elevation in feet above mean sea level was determined by previous investigators. Derivation of the top of casing and ground surface elevations according to the rod readings recorded in the field are included in Appendix G and are shown in Table 1.

3.7 AIR AND SUB-SLAB VAPOR SAMPLING AT 3144 AND 3110 CULLMAN AVENUE

As discussed in Section 2.2 of this report, several lines of evidence suggest that former industrial activity took place on the 3144 Cullman Avenue property, where wells PMW-20A & B are located. It is also noteworthy that the reported TCE concentration in the December 12, 2014 groundwater sample from PMW-20A exceeded the January 2014 North Carolina Division of Waste Management Residential and Non Residential Vapor Intrusion Screening Levels for TCE. Therefore in our May 26, 2015 draft report, W&R concluded that the presence of high concentrations of TCE in groundwater below the building may present vapor intrusion issues to users of the building.

In August 2015, Trex was contacted by representatives of EPA Region IV and was notified that EPA was conducting an assessment of potential vapor intrusion issues at the 3144 Cullman Avenue building, and at the building to the west of the Trex properties at 3110 Cullman

Avenue. EPA requested that Trex assist in the collection and analysis of indoor air, outdoor ambient air and sub slab vapor samples from these sites. Trex subsequently contracted with W&R to collect the requested samples in accordance with EPA protocols, and have them analyzed for PCE, TCE, cis 1,2 DCE, trans 1,2 DCE, 1,1 DCE and vinyl chloride by a North Carolina certified analytical laboratory.

Copies of the reports which document these sampling activities are provided in **Appendix J**, and the results are discussed in **Section 4.5**.

4.0 PHASE III RFI RESULTS

4.1 OFF-SITE SOILS

As discussed in Section 3.1 four soil samples were selected for laboratory analysis of VOCs at each of the three new permanent monitoring well locations. The first of these was collected from the zero to six-inch depth horizon, and samples from the bottom of the shallow and deep well borings were also collected for VOC analysis. The fourth sample that was collected for analysis was the soil sample that exhibited the highest TVA screening response. The sample depths are indicated on the boring logs in Appendix C and in Table 3, which also summarizes the laboratory results by well pair location. The laboratory analytical reports are included in Appendix D. The analytical results are discussed in the following sub sections.

4.1.1 PMW-20 Soil Analysis Results

Detectable concentrations of acetone (1,870 ug/Kg) and trichloroethene (TCE: 75.5 ug/Kg) were identified in the zero to six inch depth sample from location PMW-20. A lower concentration of acetone (423 ug/Kg) was detected in a duplicate sample from this depth horizon, however TCE was not identified at a concentration above its laboratory detection limit within the duplicate sample.

During field screening of the soil samples for the presence of organic vapors, the sample from a depth of 36 feet bgs exhibited the highest TVA response and was therefore submitted for VOC analysis (see boring log for PMW-20A in Appendix C). The laboratory analysis results for this sample indicated the presence of TCE at a concentration of 21,500 ug/Kg. No other VOCs were identified in the 36 foot depth sample. Similarly, the sample collected from a depth of 38 feet bgs, which corresponds to the termination depth for PMW-20A, exhibited a TCE concentration of 116,000 ug/Kg and no other VOCs were identified at concentrations that exceeded the elevated laboratory detection limits. These TCE concentrations exceed the January 2015 EPA screening level for residential soils of 940 ug/Kg, and the screening level for commercial/industrial soils of 6,000 ug/Kg.

The fourth soil sample collected from location PMW-20 was obtained from a depth of 60 feet, which corresponds to the termination depth for the boring for PMW-20B. This sample exhibited a TCE concentration of 33.3 ug/Kg. No other VOCs were identified in the 60 foot depth sample from location PMW-20B. The presence of relatively high concentrations of TCE in the 36 and 38 foot depth soil samples from location PMW-20 required that the IDW soil be manifested and disposed as hazardous waste.

4.1.2 PMW-21 Soil Analysis Results

Detectable concentrations of acetone (185 ug/Kg), tetrachloroethene (PCE: 34.1 ug/Kg), TCE (84 ug/Kg), and cis 1,2 dichloroethene (cis 1,2 DCE: 6.3 ug/Kg) were identified in the zero to six inch depth sample from location PMW-21. During field screening of the soil samples for the presence of organic vapors, the sample from a depth of 2 feet bgs exhibited the highest TVA response and was therefore submitted for VOC analysis (see boring log for PMW-21A in Appendix C). The laboratory analysis results for this sample indicated the presence of PCE (20 ug/Kg), TCE (77.8 ug/Kg), and cis 1,2 DCE (16.6 ug/Kg). No other VOCs were identified in the 2 foot depth sample. The detection of VOCs in these samples of shallow unsaturated soil suggests the presence of an off-site source of contamination. The sample collected from a depth of 34 feet bgs, which corresponds to the termination depth for PMW-21A, exhibited the presence of PCE (119 ug/Kg), TCE (148 ug/Kg) and cis 1,2 DCE (8.6 ug/Kg). No other VOCs were identified in the 34 foot depth sample.

The fourth soil sample collected from location PMW-21 was obtained from a depth of 67 feet, which corresponds to the termination depth for the boring for PMW-21B. This sample exhibited a PCE concentration of 56.7 ug/Kg, and a TCE concentration of 47.3 ug/Kg. No other VOCs were identified in the 67 foot depth sample from location PMW-21B. As detectable concentrations of PCE, TCE and cis 1,2 DCE were found in the soil samples from location PMW-21 the IDW soil from this location was manifested and disposed as hazardous waste. However, none of the reported concentrations exceed the respective January 2015 EPA screening levels for residential or commercial/industrial soils.

4.1.3 PMW-22 Soil Analysis Results

A detectable concentration of acetone (228 ug/Kg) was identified in the zero to six inch sample from location PMW-22, which is located on Mecklenburg County property to the north of Little Sugar Creek. No other VOCs were identified in the surficial soil sample from this location. Similarly, no VOCs were identified in the three other soil samples obtained from depths of 60, 63 and 85 feet at location PMW-22. The absence of VOCs within the samples from these locations suggests that the reported concentration of acetone in the surficial soil sample may be a laboratory artifact. The overall absence of VOCs in the soil samples from location PMW-22 caused Trex to manifest and dispose of the IDW soils as non-hazardous waste.

4.2 GROUNDWATER SAMPLING RESULTS

On December 11 and 12, 2014 W&R purged and sampled the six new off-site monitoring wells. General water quality parameters were monitored during the purging process described in Section 3.3 and the parameter values at the time the groundwater samples were collected are provided in our May 26, 2015 Draft Phase III RFI Report. The parameter readings recorded in December 2014 are similar to those obtained in September 2015 when the six new wells were resampled and other existing site monitoring wells were sampled. The general water quality values obtained during the recent September 2015 sampling event are summarized in Table 4. W&R submitted the groundwater samples collected during both sampling events to Pace for analysis of VOCs by EPA Method 8260. The analytical results for the groundwater samples collected from new each well pair are discussed in the following subsections.

4.2.1 PMW-20A and PMW-20B

The laboratory analysis results for both sets of groundwater samples obtained from wells PMW-20A and PMW-20B are summarized in Table 5. High concentrations of TCE (93,900 ug/L to 442,000 ug/L) were detected in both groundwater samples from shallow well PMW-20A and its duplicates (see Table 5). A methylene chloride concentration of 6,220 ug/L was identified in the December 2014 sample from PMW-20A, however this VOC was not identified in the duplicate of that sample. Methylene chloride was not identified in the September 2015 sample from this well, however low concentrations of carbon tetrachloride were identified in the sample and its duplicate. A low concentration of PCE was identified in the September 2015 duplicate sample from PMW-20A, however PCE was not detected in the sample identified as PMW-20A collected at the same time. Other VOCs were not identified in the samples at concentrations that exceeded their respective laboratory detection limits (see Table 5).

Laboratory analysis results for the groundwater samples from paired deep well MW-20B identified elevated concentrations of TCE in both the December 2014 and September 2015 samples. TCE was the only VOC detected in both samples and the reported concentrations were an order of magnitude less than those for the paired shallow well MW-20A on both sampling occasions (see Table 5).

4.2.2 PMW-21A and PMW-21B

The laboratory analysis results for both sets of groundwater samples obtained from PMW-21A and PMW-21B are summarized in **Table 5**. Similar concentration of three VOCs were detected in the samples from shallow well PMW-21A on both occasions (PCE, TCE, and cis 1,2 DCE). A low concentration of 1,1 DCE was also identified in the September 2015 sample collected from PMW-21A.

Similar concentrations of the same VOCs (PCE, TCE and cis 1,2 DCE) were detected in both sets of groundwater samples obtained from deep well PMW-21B (see **Table 5**). The concentrations of PCE and TCE in the samples from PMW-21B were notably higher than those in the samples from the shallower well PMW-21A. Low concentrations of 1,1 DCE and 1,1,1 trichloroethane (TCA) were also identified in the September 2015 sample from PMW-21B. Wells PMW-21A and 21B are located in the paved parking area to the north of the building currently in use by the Nexus Church. Discussion of the probable sources for the VOC contamination in groundwater at this location is provided in **Section 5**.

4.2.3 PMW-22A and PMW-22B

The laboratory analysis results for both sets of groundwater samples obtained from PMW-22A and PMW-22B are summarized in **Table 5**. Similar low concentrations of four trihalomethanes (THMs) were identified in both of the samples from shallow well PMW-22A. These included: bromodichloromethane, bromoform or tribromomethane, chloroform or trichloromethane and dibromochloromethane. Low concentrations of chloroform were also detected in both of the groundwater samples from deep well PMW-22B. No other VOCs, particularly none of those identified in groundwater samples from the south side of Little Sugar Creek were identified in the samples from PMW-22A or PMW-22B.

As discussed in **Section 2.4**, Little Sugar Creek is a groundwater discharge area which acts as a hydraulic boundary that prevents the movement of groundwater from the south side of the creek to its north side and vice versa. Thus, the presence of only THMs in the samples from off-site wells PMW-22A & B suggests that the use of municipal water on the property where the wells are located may be the source of the THMs.

According to Wikipedia "*Trihalomethanes are formed as a by-product predominantly when chlorine is used to disinfect water for drinking. They represent one group of chemicals generally referred to as disinfection by-products. They result from the reaction of chlorine or bromine with organic matter present in the water being treated."* (https://en.wikipedia.org/wiki/Trihalomethane)

In order to test the hypothesis that municipal water is the source of the detected THMs, we collected a sample of the municipal water that serves the area during the September 2015 sampling event. This was the same source of municipal water that was used at the Trex site to decontaminate the drilling equipment in December 2014. Results of VOC analysis of the sample named "TAP" (see **Table 5**) revealed the same THM compounds that were identified in the samples from PMW-22A & B in December 2014 and September 2015.

Wells PMW-22A & B are located adjacent to a well-maintained lawn on Mecklenburg County property located north of Little Sugar Creek. It is possible that the county waters this lawn periodically, and that the THMs observed in the groundwater samples from PMW-22A & B are the result of such lawn watering activities. Alternatively, there may be an undetected municipal water line leak in the area. A photograph of these wells and the adjacent lawn is provided below.

4.3 RINSATE, TRIP BLANK AND LABORATORY QA/QC SAMPLE RESULTS

In accordance with the approved SAP, W&R prepared a sampling equipment rinsate sample for each day that soil or groundwater sampling activities occurred at the site. The samples were prepared by pouring organic free deionized water, provided by Pace, over or through equipment used to sample soils (Terracore® samplers) or groundwater (polyethylene tubing) and collecting the rinsate in 40 ml VOA vials for analysis of VOCs by EPA Method 8260. Results of these analyses for both the December 2014 and September 2015 sampling events are summarized in Table 6 and the laboratory reports are included in Appendix D. A trace concentration (1.2 ug/L) of TCE was identified in the equipment rinsate sample prepared on September 22, 2015. This concentration is slightly above the laboratory detection limit of 1.0 ug/L. No VOCs were identified at concentrations that exceeded their respective laboratory detection limits in the remainder of the equipment rinsate samples.

Analytical results for the trip blanks prepared by Pace are also summarized in Table 6. The trip blanks were analyzed for VOCs and the analysis results did not identify the presence of VOCs at concentrations that exceeded their respective laboratory detection limits in any of the samples.

The laboratory analytical reports for the work described in this Updated Draft Phase III RFI Report are provided in Appendix D and include the analytical results for their internal QA/QC samples. Such samples included solid and liquid Method Blanks, Laboratory Control Samples, Matrix Spike and Matrix Spike Duplicates and the results of the analyses are provided in the Quality Control Data section within each of the laboratory analytical reports included in Appendix D.

According to Pace the results conform to the most current TNI (The NELAC Institute) standards, and the laboratory's Quality Assurance Manual. NELAC stands for the USEPA's National Environmental Laboratory Accreditation Conference and Pace is a NELAC accredited laboratory. In addition, Appendix D contains a case narrative provided by Pace that addresses the concerns related to the exceedance of control limits on the Matrix Spike and Matrix Spike Duplicate Samples associated with lab reports 92229483 and 92228438.

4.4 SLUG TESTING RESULTS

Calculations of hydraulic conductivity estimates using monitoring well installation details and water level recovery data according to the method of Herman Bouwer (1989) are provided in Appendix H. The resulting hydraulic conductivity estimates for the saprolite, PWR and

bedrock are summarized in **Table 7**. The average hydraulic conductivity for the saprolite was determined to be approximately 3.0 feet per day (ft/d) or about 1.1 x 10^{-3} centimeters per second (cm/s). The average hydraulic conductivity for the PWR was determined to be approximately 2.8 ft/d or about 9.8 x 10^{-4} cm/s, which is essentially equivalent to the average hydraulic conductivity of the saprolite. This hydraulic conductivity range is generally equivalent to that of a fine to medium sand that might be found in a coastal plain setting and suggests that the saprolite and PWR beneath the site would be amenable to injection of either high or low viscosity reagents formulated to reduce the concentrations of VOCs in groundwater.

The average hydraulic conductivity of the bedrock at location PMW-13B (0.03 ft/d or 1.1 x 10^{-5} cm/s) was found to be two orders of magnitude lower than that of the saprolite and PWR. W&R expects that the range of bedrock hydraulic conductivity varies within $\pm$ one order of magnitude depending on the amount of fractures present at a given location.

4.5 RESULTS OF AIR AND SUB-SLAB VAPOR SAMPLING

Copies of the reports that document W&R's air and sub slab vapor sampling activities at the 3144 and 3110 Cullman Avenue sites and the results of laboratory analysis of the samples are provided in **Appendix J**. Low concentrations of PCE and TCE were detected in the indoor air and outdoor ambient air samples collected from the 3144 Cullman Avenue site. However, the detected concentrations of PCE were below NCDENR Division of Waste Management Residential Vapor Intrusion Screening Level for PCE, and those for TCE were below the site specific screening level established by EPA for TCE. W&R will return to the site to collect follow up indoor air samples during the winter to evaluate whether the concentrations of VOCs in the indoor air are subject to seasonal variation.

Detectable concentrations of the VOCs, PCE, TCE, cis 1,2 DCE, trans 1,2 DCE and 1,1 DCE were identified in the sub slab vapor samples obtained from the 3110 Cullman Avenue site. Low concentrations of PCE, TCE, cis 1,2 DCE and 1,1 DCE were identified in the indoor air samples from this site, and low concentrations of PCE, TCE, cis 1,2 DCE and vinyl chloride were identified in the corresponding outdoor ambient air samples (see **Appendix J**). The concentrations of PCE and 1,1 DCE in the indoor air samples were below the NCDENR Division of Waste Management Non-Residential Vapor Intrusion Screening Levels for these VOCs, and there is currently no NCDENR or EPA established screening level cis 1,2 DCE. However, concentrations of TCE in the indoor air samples exceeded the site specific indoor screening level established by EPA by relatively small margins. Trex and W&R are currently working with

the owner of the 3110 Cullman Avenue property to establish interim measures that can be taken to reduce the concentrations of TCE in the indoor air to acceptable levels, and associated follow-up sampling and analysis work.

5.0 DISCUSSION OF FINDINGS

5.1 DISTRIBUTION OF VOCS IN GROUNDWATER

Review of the laboratory analytical results for groundwater samples obtained from the site in 2012, 2014 and 2015 (see **Table 5**) reveals that the VOCs PCE, TCE, cis 1,2 DCE , 1,1 DCE and 1,4 dioxane are present at most of the groundwater monitoring locations at concentrations that exceed North Carolina groundwater standards established in Title 15A of the North Carolina Administrative Code Subchapter 2L (2L Standards). For this reason, these five VOCs are considered to be the primary contaminants of concern present in groundwater in the vicinity of the site. Four cross-sections which show the vertical distribution of these VOCs are provided as **Figures 6** through **9**. Maps that show the horizontal distribution of these VOCs in shallow and deeper groundwater are provided in **Figures 10** through **19**. The following subsections provide additional discussion of the current distribution of the five VOCs in groundwater.

5.1.1 Tetrachloroethene in Groundwater

Figure 10 shows the approximate horizontal extent of PCE in groundwater generated though interpolation of PCE concentrations in shallow groundwater at the various monitoring well locations and with consideration to shallow groundwater flow direction. **Figure 11** shows the approximate horizontal extent of PCE in deeper groundwater. The vertical extent of PCE in groundwater is illustrated in **Figures 6** through **9**. The PCE concentration contours shown in **Figure 10** suggest that there are two areas on the subject properties where PCE concentrations are unusually high. These areas include the southern portion of the 3114 Cullman Avenue property where solvent handling was conducted in the past, and the area north of the buildings adjacent to where recycled solvents were formerly stored in aboveground storage tanks.

The groundwater flow direction in these areas is primarily towards the north, however there appears to be a northwesterly component of flow in the vicinity of the 3114 Cullman Avenue property. However, the groundwater flow pattern shown in **Figure 5** does not suggest that PCE in groundwater from the subject site is the source of PCE in groundwater further to the east, particularly at locations PMW-16A and 16B, PMW-17A and -17B, or PMW-18A where PCE was detected in 2012 after those wells were installed. The PCE concentrations detected at

these three locations, particularly those at monitoring location PMW-16 suggest the presence of an off-site source of PCE somewhere to the east of the subject site.

As illustrated in **Figure 5**, the horizontal extent of PCE in groundwater extends to Little Sugar Creek. This is consistent with the surface water sampling results obtained by previous investigators in 2012. However, the absence of VOCs in groundwater samples from monitoring locations PMW-12 and PMW-22 on the north side of the creek, and the presence of an upward component of groundwater flow at those locations implies that Little Sugar Creek acts as a hydraulic barrier that is preventing movement of VOCs in groundwater to properties located north of the creek.

5.1.2 Trichloroethene in Groundwater

Figure 12 shows the approximate horizontal extent of TCE in shallow groundwater generated though interpolation of TCE concentrations at the various monitoring well locations and with consideration to groundwater flow direction. **Figure 13** shows the approximate horizontal extent of TCE in deeper groundwater. The vertical extent of TCE in groundwater is illustrated in **Figures 6** through **9**. The TCE concentration contours shown in **Figure 12** suggest that there is one area on the subject properties where TCE concentrations are unusually high. This area located just north of the 3114 Cullman Avenue building, adjacent to where recycled solvents were formerly stored in aboveground storage tanks and where high concentrations of PCE are also present, and the portion of 3124 Cullman Avenue adjacent to 3114 Cullman Ave.

A second area of unusually high TCE concentrations occurs in the immediate vicinity of monitoring location PMW-20, which is adjacent to the southern loading dock of the building that is currently in use by Nexus Church and that was first occupied by the Nyanza Color and Chemical Company. The concentrations of TCE in samples from PMW-2A & B for the September 2015 sampling event (243 ug/L and 134 ug/L, respectively) are at least one to two orders of magnitude lower than those at locations PMW 20A & B (124,000 ug/L and 3,830 ug/L, respectively). Therefore, the TCE concentrations at the PMW-20 well pair, located approximately 135 feet east of the PMW-2 well pair, and the detection of TCE in the zero to 0.5 foot unsaturated soil sample from this location suggest the presence of a separate off-site source of TCE contamination. Concentrations of TCE in groundwater samples collected from these wells during both groundwater sampling events were higher than any of those identified in groundwater samples collected from the subject property.

The groundwater flow direction beneath the subject site is primarily towards the north, however there appears to be a northwesterly component of flow in the vicinity of the 3114 Cullman Avenue property. The groundwater flow patterns shown in **Figures 12** and **13** do not suggest that TCE in groundwater from the subject site is the source of TCE in groundwater further to the east, particularly at locations PMW-20A and 20B, PMW-16A and 16B, PMW-17A and -17B, or PMW-18A.

As discussed in **Section 2.4** of this report, the groundwater elevations shown in **Table 2** and on **Figures 4** and **5** indicate that the highest groundwater elevation in the saprolite/partially weathered rock portion of the aquifer was measured at PMW-20A, and that highest groundwater elevation in the bedrock was measured at PMW-20B. Therefore, it is logical to conclude that groundwater flows away from this area towards the north and northwest as illustrated in **Figures 4** and **5**. Additionally, we would not expect groundwater occurring at lower elevations to flow towards the PMW-20 well pair as the hydraulic head relationship would not allow such flow.

Given the overall northerly direction of groundwater flow in the vicinity of PMW-20A & B, it appears that the TCE detected at monitoring locations PMW-7 and PMW-21 was likely derived from the off-site TCE source discovered near the rear loading dock of the former Nyanza building. As illustrated in **Figures 12** and **13**, the horizontal extent of TCE in groundwater extends to Little Sugar Creek. This is consistent with the surface water sampling results obtained by previous investigators in 2012. However, the absence of COCs in groundwater samples from monitoring locations PMW-12 and PMW-22 on the north side of the creek during the recent September 2015 sampling event, and the presence of an upward component of groundwater flow at those locations implies that Little Sugar Creek acts as a hydraulic barrier which prevents movement of VOCs in groundwater to properties located north of the creek.

5.1.3 Cis 1, 2 Dichloroethene in Groundwater

Figure 14 shows the approximate horizontal extent of cis 1,2 DCE in groundwater generated though interpolation of cis 1,2 DCE concentrations at the various monitoring well locations and with consideration to groundwater flow direction. **Figure 15** shows the approximate horizontal extent of cis 1,2 DCE in deeper groundwater. The vertical extent of cis 1,2 DCE in groundwater is illustrated in **Figures 6** through **9**. The cis 1,2 DCE concentration contours shown in **Figures 14** and **15** suggest that there are two areas on the subject properties where cis 1,2 DCE concentrations are unusually high. These areas include the southern portion of the 3114 Cullman Avenue property where solvent handling was conducted in the past, and

the area north of the buildings adjacent to where recycled solvents were formerly stored in aboveground storage tanks. W&R suspects that the presence of cis 1,2 DCE at these locations and in site groundwater in general is related to the presence of PCE and TCE in the same area as cis 1,2 DCE is a primary degradation product of these VOCs.

The groundwater flow patterns shown in **Figures 14** and **15** do not suggest that cis 1,2 DCE in groundwater from the subject site is the source of cis 1,2 DCE in groundwater further to the east, particularly at locations PMW-16A and 16B, or PMW-18A, which were last sampled in September 2012. The cis 1,2 DCE concentrations detected at these three locations, particularly those at monitoring location PMW-16 suggest the presence of an off-site source of cis 1,2 DCE or its parent VOC (either PCE or TCE) somewhere to the east of the subject site.

As illustrated in **Figures 14** and **15**, the horizontal extent of cis 1,2 DCE in groundwater extends to Little Sugar Creek. This is consistent with the surface water sampling results obtained by previous investigators. However, the absence of COCs in groundwater samples from monitoring locations PMW-12 and PMW-22 on the north side of the creek during the recent September 2015 sampling event, and the presence of an upward component of groundwater flow at those locations implies that Little Sugar Creek acts as a hydraulic barrier which should prevent movement of COCs in groundwater to properties located north of the creek.

5.1.4 1,1 Dichloroethene in Groundwater

Figure 16 shows the approximate horizontal extent of 1,1 DCE in groundwater generated though interpolation of 1,1 DCE concentrations at the various monitoring well locations and with consideration to groundwater flow direction. **Figure 17** shows the approximate horizontal extent of 1,1 DCE in deeper groundwater. The vertical extent of 1,1 DCE in groundwater is illustrated in **Figures 6** through **9**. The 1,1 DCE concentration contours shown in **Figure 16** suggest the presence of one area on the subject properties where 1,1 DCE concentrations are unusually high. This area is north of the 3114 and 3124 Cullman Avenue buildings adjacent to where recycled solvents were formerly stored in aboveground storage tanks.

The groundwater flow direction in this area is primarily towards the north, which is consistent with the interpreted horizontal distribution of 1,1 DCE in groundwater. The groundwater flow patterns shown in **Figures 16** and **17** do not suggest that 1,1 DCE in groundwater from the subject site is the source of 1,1 DCE in groundwater further to the east, particularly at location PMW-16B. The 1,1 DCE concentration detected PMW-16B suggest the presence of an off-site source of 1,1 DCE somewhere to the east of the subject site.

As illustrated in **Figures 16** and **17**, the horizontal extent of 1,1 DCE in groundwater extends to Little Sugar Creek. This is consistent with the surface water sampling results obtained by previous investigators in 2012. However, the absence of COCs in groundwater samples from monitoring locations PMW-12 and PMW-22 on the north side of the creek during the recent September 2015 sampling event, and the presence of an upward component of groundwater flow at those locations implies that Little Sugar Creek acts as a hydraulic barrier which should prevent movement of COCs in groundwater to properties located north of the creek.

5.1.5 1,4 Dioxane in Groundwater

Figure 18 shows the approximate horizontal extent of 1,4 dioxane in groundwater generated though interpolation of 1,1 dioxane concentrations at the various monitoring well locations and with consideration to groundwater flow direction. **Figure 19** shows the approximate horizontal extent of 1,4 dioxane in deeper groundwater. The vertical extent of 1,4 dioxane in groundwater is illustrated in **Figures 6** through **9**. The 1,4 dioxane concentration contours shown in **Figure 18** suggest the presence of one area on the subject properties where 1,4 dioxane concentrations are elevated. This area is the area north of the 3114 and 3124 Cullman Avenue buildings adjacent to where recycled solvents were formerly stored in aboveground storage tanks.

The groundwater flow direction in this area is primarily towards the north, which is consistent with the interpreted horizontal distribution of 1,4 dioxane in groundwater. The groundwater flow patterns shown in **Figures 18** and **19** do not suggest that 1,4 dioxane in groundwater from the subject site is the source of 1,4 dioxane in groundwater further to the east, particularly at locations PMW-16A & B and PMW-18A. The 1,4 dioxane concentrations detected these locations suggest the presence of an off-site source somewhere to the east of the subject site.

As illustrated in **Figures 18** and **19**, the horizontal extent of 1,4 dioxane in groundwater extends to Little Sugar Creek. Low concentrations of 1,4 dioxane were detected in samples from off-site wells PMW-12A & B in 2012 and in 2015. However, as stated several times in this report, the presence of Little Sugar Creek should prevent movement of groundwater from the south side of the creek to its north side and vice versa. If the Trex site was the source of the 1,4 dioxane detected in the samples from the PMW-12 wells, we would expect to see other site related COCs at this location. Because no other site related COCs were identified in the September 2015 samples from the PMW-12 wells, it is reasonable to conclude that the Trex site is not the source of the 1,4 dioxane detected in those samples.

5.2 REMEDIAL ACTION PLANNING

It is W&R's opinion that the horizontal and vertical extent of groundwater contamination by VOCs that originated from previous solvent handling activities at the site has been reasonably well defined for the purposes of remedial action planning. Similarly, the characteristics of the unconfined aquifer which contains the VOC contaminated groundwater are also reasonably well understood and imply that the in-situ chemical injection remedial actions proposed in the Conceptual Approach to Remediation (CAR) are feasible. Additional information regarding the design of the soil and groundwater remediation activities proposed in the CAR will be obtained through implementation of the remedial action pilot tests described in the CAR. Remedial action planning for the subject site will focus on areas of soil and groundwater contamination that are associated with the Trex site. The pilot tests described in Section 2.2 of the CAR will provide the design data needed for remedial action planning and will include the following:

- **Horizontal soil vapor extraction (SVE) pilot study.** Results of this study will be used to evaluate the effectiveness of the technique to remove COCs from unsaturated soils located on the Trex property.
- **Geophysical top of PWR and bedrock survey.** Results of this survey will be used in the NCDENR Underground Injection Control (UIC) Program permit application to justify and support the injection depths to be proposed in the application package.
- **Clean water injection pilot test.** The radius of influence measurements as well as water flow and pressure readings derived from this pilot test will be used to determine the appropriate spacing of injection points and amounts of chemical reagent that will need to be purchased and injected. This information will also be referenced in the UIC Program injection permit application.

5.3 CONTINUED EVALUATION OF OFF SITE INDOOR AIR CONDITIONS

At the request of US EPA, indoor air sampling of the adjacent buildings to the east and west of the Trex property and evaluation of the results will continue. Additional indoor air samples will be obtained from the Nexus Church building at 3144 Cullman Avenue during January or February 2016 to determine if concentrations of COCs in the indoor air are influenced by seasonal variation. Finally, as discussed in **Section 4.5**, Trex and W&R are currently working with the owner of the 3110 Cullman Avenue property to establish interim measures that can be taken to reduce the concentrations of TCE in the indoor air to acceptable levels, and associated follow-up air sampling and analysis work.

6.0 DEVIATIONS FROM THE SAP AND SLUG TESTING PROCEDURE

The following is a discussion of deviations from the procedures discussed in the SAP and Procedures for Conducting and Analyzing Slug Tests described earlier in this report.

6.1 SOIL SAMPLING ACTIVITIES

- The bottom of boring samples from the deep soil borings for the Type III monitoring wells could not be collected using a split spoon sampler because this portion of the boring was drilled by air rotary methods and the material being drilled was too hard for the use a split spoon sampler. The W&R project manager therefore instructed the W&R field representative to collect a grab sample of cuttings brought to the surface by the air rotary drilling process when the driller indicated that competent bedrock had been reached. Therefore, the exact depth of the sample is approximated.

6.2 PERMANENT MONITORING WELL SAMPLING ACTIVITIES

- The SAP indicates that the general water quality monitoring equipment should be calibrated each day the equipment is used. The W&R field representative's notes indicate that the instruments were calibrated on December 12, 2015 when groundwater samples were collected. However, the W&R project manager did not see notation that the equipment was calibrated on the previous day when groundwater samples were also collected. Because the readings obtained on December 11th were reasonably similar to those obtained on the 12th, and compared well with readings obtained by previous investigators in 2012, W&R does not believe that this deviation adversely affects the quality of the data or results included in this report.

6.3 SLUG TESTING

- Step 5 of Section 4.2 of the Procedure for Conducting and Analyzing Slug Tests says to "activate the data logging software so that a reading of the height of the column of water above the water level measuring point on the transducer can be observed". The W&R project manager and field representative were not able direct the Win-Situ® software to report such a reading. To make up for this deviation, the project manager and field representative collected manual water level readings as the data logger was recording water level readings from the transducer. The resulting water level recovery plots of the transducer generated data made intuitive sense, contained useful early test readings, and were in general agreement with the manual readings. Therefore, W&R does not believe that this deviation adversely affects the quality of the data or results included in this report.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the investigative activities described in this Updated Draft Phase III RFI Report, W&R offers the following conclusions and recommendations.

- Contours of groundwater elevation data for wells screened within the saprolite are very similar to those screened in the PWR and both imply northerly directions of groundwater flow towards Little Sugar Creek. This makes intuitive sense and is consistent with previous determinations.
- Comparison of groundwater elevations measured in the saprolite wells to those measured in paired PWR wells indicates the presence of an upward component of groundwater flow at locations near Little Sugar Creek. This is not unusual considering the fact that the creek is a perennial surface water feature which receives groundwater discharge from the north and south. This condition implies that the creek acts as a hydraulic boundary, which prevents the movement of groundwater from the south side of the creek to the north side of the creek and vice versa.
- The characteristics of the unconfined aquifer, which contains groundwater contaminated by VOCs, are reasonably well understood in terms of hydraulic conductivity and vertical and horizontal gradients, and imply that the injection work proposed in the Conceptual Approach to Remediation for this site is feasible. Additional information regarding the design of the soil and groundwater remediation activities proposed in the CAR will be obtained through implementation of the pilot tests described in the CAR.
- The horizontal and vertical extents of groundwater contamination by VOCs that originated from previous solvent handling activities at the site have been reasonably well defined for the purposes of remedial action planning.
- W&R recommends proceeding with the pilot testing and injection permitting activities described in the Conceptual Approach to Remediation and summarized in Section 5.2 of this report. The remedial action planning for the subject site will not focus on areas of soil and groundwater contamination that are most likely due to off-site sources of contamination, particularly the area in the vicinity of monitoring location PMW-20 or areas further to the east.

End of Updated Draft Phase III RFI Report Text

Tables

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

Table 1: Summary of Monitoring Well Construction Information

Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC

W&R Project No. 03130430.01

Well ID	Date Installed	Decimal Latitude	Decimal Longitude	Well Type	Total Depth of Well Casing (ft bgs)	Total Depth of Outer Casing (ft bgs)	Screened Interval (ft bgs)	Screened Material	Height of Top of Casing (ft ags)	Ground Surface Elevation (ft msl)	Top of Casing Elevation (ft msl)	Depth to PWR (ft bgs)	Top of PWR Elevation (ft msl)	Depth to Bedrock (ft bgs)	Top of Bedrock Elevation (ft msl)
PMW-1A	09/14/12	N 35.248662	W 80.809590	Type II	12	--	7-12	Saprolite	3.33	683.62	686.95	10	673.62	--	--
PMW-1B	09/13/12	N 35.248650	W 80.809583	Type III	54	44	49-54	PWR	3.75	683.12	686.87	10	673.12	55	628.12
PMW-2A	09/14/12	N 35.248775	W 80.809296	Type II	30	--	20-30	Saprolite	3.58	683.76	687.34	30	653.76	--	--
PMW-2B	09/13/12	N 35.248784	W 80.809282	Type III	55	37	50-55	PWR	3.56	683.42	686.98	30	653.42	55	628.42
PMW-3A	09/14/12	N 35.248720	W 80.809485	Type II	25	--	15-25	Saprolite	3.58	683.42	687.00	25	658.42	--	--
PMW-4A	06/14/12	N 35.248890	W 80.809644	Type II	12	--	2-12	Saprolite	3.41	687.45	690.86	--	--	--	--
PMW-5A	06/13/12	N 35.249154	W 80.809816	Type II	39	--	29-39	PWR	-0.28	683.88	683.60	25	658.88	--	--
PMW-6A	06/12/12	N 35.249330	W 80.809620	Type II	38	--	28-38	PWR	-0.31	684.07	683.76	30	654.07	--	--
PMW-7A	06/12/12	N 35.249592	W 80.808951	Type II	38	--	28-38	PWR	-0.25	683.92	683.67	30	653.92	--	--
PMW-7B	06/25/12	N 35.249583	W 80.808930	Type III	55	40	50-55	PWR	-0.30	684.34	684.04	30	654.34	--	--
PMW-8A	06/11/12	N 35.249319	W 80.810339	Type II	42	--	32-42	PWR	-0.34	685.10	684.76	35	650.10	--	--
PMW-8B	06/21/12	N 35.249342	W 80.810325	Type III	58	43	53-58	PWR	-0.33	685.31	684.98	35	650.31	--	--
PMW-9A	06/08/12	N 35.249864	W 80.809364	Type II	19	--	9-19	Saprolite	-0.29	683.61	683.32	--	--	--	--
PMW-9B	06/13/12	N 35.249860	W 80.809382	Type II	34	--	24-34	Saprolite	-0.25	683.66	683.41	30	653.66	--	--
PMW-9C	06/21/12	N 35.249852	W 80.809409	Type III	50	35	45-50	PWR	-0.26	683.83	683.57	30	653.83	--	--
PMW-10A	06/11/12	N 35.249839	W 80.809968	Type II	63	--	53-63	PWR	-0.31	683.25	682.94	55	628.25	--	--
PMW-10B	06/21/12	N 35.249789	W 80.809963	Type III	73	64	68-73	PWR	-0.32	683.49	683.17	55	628.49	73	610.49
PMW-11A	06/12/12	N 35.249696	W 80.810347	Type II	63	--	53-63	PWR	-0.29	682.91	682.62	55	627.91	--	--
PMW-11B	06/21/12	N 35.249676	W 80.810344	Type III	78	63	73-78	PWR	-0.30	683.11	682.81	55	628.11	78	605.11
PMW-12A	06/25/12	N 35.249935	W 80.810901	Type II	40	--	30-40	PWR	-0.32	681.89	681.57	20	661.89	--	--
PMW-12B	06/25/12	N 35.249943	W 80.810893	Type III	49	42	44-49	PWR	-0.31	682.01	681.70	20	662.01	49	633.01
PMW-13B	07/12/12	N 35.249474	W 80.810109	Type III	103	88	98-103	Bedrock	-0.28	685.55	685.27	50	635.55	88	597.55
PMW-14A	09/19/12	N 35.249161	W 80.811296	Type II	30	--	20-30	Saprolite	2.89	678.25	681.14	25	653.25	--	--
PMW-14B	09/19/12	N 35.249159	W 80.811280	Type III	50	32	45-50	PWR	2.85	678.15	681.00	25	653.15	--	--
PMW-16A	09/19/12	N 35.249751	W 80.808092	Type II	22	--	12-22	PWR	-0.28	683.54	683.26	5	678.54	--	--
PMW-16B	09/19/12	N 35.249751	W 80.808074	Type III	55	24	50-55	PWR	-0.30	683.67	683.37	5	678.67	55	628.67
PMW-17A	09/19/12	N 35.249333	W 80.807911	Type II	22	--	12-22	PWR	-0.31	686.53	686.22	5.5	681.03	--	--
PMW-17B	09/12/12	N 35.249305	W 80.807897	Type II	50	--	45-50	PWR	-0.29	686.40	686.11	5.5	680.90	55	631.40
PMW-18A	09/14/12	N 35.248972	W 80.808679	Type II	22	--	12-22	Saprolite	3.58	682.69	686.27	22	660.69	--	--
PMW-18B	09/14/12	N 35.248965	W 80.808696	Type III	43	22	38-43	PWR	3.50	682.90	686.40	22	660.90	43	639.90
PMW-20A	12/11/14	N 35.248998	W 80.808867	Type II	39	--	34-39	Saprolite	2.75	683.28	686.03	39	--	--	643.98
PMW-20B	12/09/14	N 35.248990	W 80.808881	Type III	60	45	55-60	Rock	3.32	683.32	686.64	--	--	39	644.02
PMW-21A	12/02/14	N 35.249524	W 80.809077	Type II	35	--	30-35	Saprolite	-0.41	683.62	683.21	35	648.31	--	--
PMW-21B	12/03/14	N 35.249520	W 80.809094	Type III	67	40	62-67	PWR	-0.31	683.57	683.26	35	648.27	67	616.27
PMW-22A	12/08/14	N 35.250615	W 80.809111	Type II	63	--	58-63	Saprolite	3.10	683.93	687.03	63	620.81	--	--
PMW-22B	12/09/14	N 35.250636	W 80.809114	Type III	86	70	81-86	PWR	2.64	684.24	686.88	63	621.15	85	599.15

Notes:

1. ft bgs = Feet below ground surface
2. ft toc = Feet below top of casing
3. ft ags Feet above ground surface
4. ft msl Feet above mean sea level
5. PWR = Partially Weathered Rock.
6. -- = Not Applicable

Table 2: Groundwater Elevation Data

Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC

W&R Project No. 03130430.01

Well ID	Date Measured	Top of Casing Elevations (ft msl)	Depth to Groundwater (ft toc)	Groundwater Elevation (ft msl)
PMW-1A	9/23/2015	686.95	9.59	677.36
PMW-1B	9/23/2015	686.87	9.65	677.22
PMW-2A	9/23/2015	687.34	9.78	677.56
PMW-2B	9/23/2015	686.98	9.72	677.26
PMW-3A	9/23/2015	687.00	9.58	677.42
PMW-4A	9/23/2015	690.86	DRY	DRY
PMW-5A	9/23/2015	683.60	7.51	676.09
PMW-6A	9/23/2015	683.76	7.70	676.06
PMW-7A	9/23/2015	683.67	9.42	674.25
PMW-7B	9/23/2015	684.04	9.50	674.54
PMW-8A	9/22/2015	684.76	10.78	673.98
PMW-8B	9/22/2015	684.98	10.16	674.82
PMW-9A	9/22/2015	683.32	10.30	673.02
PMW-9B	9/22/2015	683.41	10.33	673.08
PMW-9C	9/22/2015	683.57	10.37	673.20
PMW-10A	9/22/2015	682.94	9.11	673.83
PMW-10B	9/22/2015	683.17	9.29	673.88
PMW-11A	9/22/2015	682.62	9.29	673.33
PMW-11B	9/22/2015	682.81	9.58	673.23
PMW-12A	9/22/2015	681.57	8.28	673.29
PMW-12B	9/22/2015	681.70	8.35	673.35
PMW-13B	9/22/2015	685.27	9.84	675.43
PMW-14A	NM	681.14	NM	NM
PMW-14B	NM	681.00	NM	NM
PMW-16A	NM	683.26	NM	NM
PMW-16B	NM	683.37	NM	NM
PMW-17A	NM	686.22	NM	NM
PMW-17B	NM	686.11	NM	NM
PMW-18A	9/23/2015	686.27	DAMAGED	
PMW-18B	9/23/2015	686.40	8.31	678.09
PMW-20A	9/23/2015	686.03	7.77	678.26
PMW-20B	9/23/2015	686.64	8.54	678.10
PMW-21A	9/23/2015	683.21	8.85	674.36
PMW-21B	9/23/2015	683.26	8.74	674.52
PMW-22A	9/22/2015	687.03	12.52	674.51
PMW-22B	9/22/2015	686.88	12.22	674.66

Notes:

1. ft toc = Feet below top of casing
2. ft msl = Feet above mean sea level
3. NM = Not measured. Off-site wells which were inaccessible at time of visit.

Table 3: Soil Sample Analytical Results for PMW-20, PMW-21 & PMW-22 Locations
Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC
W&R Project No. 03130430.01

Volatile Organic Compound Name	EPA Residential Soil RSL (Jan 2015)	PMW-20 (0.5') 12/09/14	PMW-20 (0.5') Duplicate 12/09/14	PMW-20 (36') 12/09/14	PMW-20 (38') 12/09/14	PMW-20 (60') 12/11/14	PMW-21 (0.5') 12/01/14	PMW-21 (2') 12/01/14	PMW-21 (34') 12/01/14	PMW-21 (67') 12/03/14	PMW-22 (0.5') 12/03/14	PMW-22 (60') 12/04/14	PMW-22 (63') 12/04/14	PMW-22 (85') 12/08/14
1,1,1,2-Tetrachloroethane	**2,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,1,1-Trichloroethane	**8,100,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,1,2,2-Tetrachloroethane	**600**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,1,2-Trichloroethane	**NSL**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,1-Dichloroethane	**3,600**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,1-Dichloroethene	**230,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,1-Dichloropropene	**NSL**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,2,3-Trichlorobenzene	**49,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,2,3-Trichloropropane	**5.1**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,2,4-Trichlorobenzene	**24,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,2,4-Trimethylbenzene	**58,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,2-Dibromo-3-chloropropane	**5.3**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,2-Dibromoethane (EDB)	**36**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,2-Dichlorobenzene	**1,800,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,2-Dichloroethane	**460**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,2-Dichloropropane	**1,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,3,5-Trimethylbenzene	**NSL**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,3-Dichlorobenzene	**NSL**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,3-Dichloropropane	**1,600,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
1,4-Dichlorobenzene	**2,600**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
2,2-Dichloropropane	**NSL**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
2-Butanone (MEK)	**27,000,000**	<632	<123	<109	<85.5	<116	<92.9	<92.9	<81.7	<12.2	<116	<89.5	<92.9	<81.7
2-Chlorotoluene	**1,600,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
2-Hexanone	**200,000**	<316	<61.7	<54.7	<42.8	<57.9	<46.5	<46.5	<40.9	<61.1	<57.9	<44.8	<46.5	<40.9
4-Chlorotoluene	**1,600,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
4-Methyl-2-pentanone (MIBK)	**5,300,000**	<316	<61.7	<54.7	<42.8	<57.9	<46.5	<46.5	<40.9	<61.1	<57.9	<44.8	<46.5	<41.2
Acetone	**61,000,000**	**1870**	**423**	<5.5	<4.3	<115	**185**	<92.4	<81.7	<122	**228**	<89.5	<92.4	<82.3
Benzene	**12,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Bromobenzene	**290,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Bromochloromethane	**150,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Bromodichloromethane	**290**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Bromoform	**67,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Bromomethane	**6,800**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Carbon tetrachloride	**650**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Chlorobenzene	**280,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Chloroethane	**14,000,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Chloroform	**320**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Chloromethane	**110,000**	<63.2	<12.3	<10.9	<8.6	<116	<9.3	<9.3	<8.2	<12.2	<116	<9.0	<9.3	<8.2
Dibromochloromethane	**730**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Dibromomethane	**23,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Dichlorodifluoromethane	**87,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Diisopropyl ether	**NSL**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Ethylbenzene	**5,800**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Hexachloro-1,3-butadiene	**6,800**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Isopropylbenzene (Cumene)	**1,900,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Methyl-tert-butyl ether	**47,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Methylene Chloride	**57,000**	<126	<24.7	<21.9	<17.1	<23.2	<18.6	<18.6	<16.3	<24.4	<23.2	<17.9	<18.6	<16.5
Naphthalene	**3,800**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Styrene	**6,000,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Tetrachloroethene	**24,000**	<31.6	<6.2	<5.5	<4.3	<5.8	**34.1**	**20.0**	**119**	**56.7**	<5.8	<4.5	<4.6	<4.1
Toluene	**4,900,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Trichloroethene	**940**	**75.5**	<6.2	**21,500**	**116,000**	**33.3**	**84.0**	**77.8**	**148**	**47.3**	<5.8	<4.5	<4.6	<4.1
Trichlorofluoromethane	**730,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
Vinyl acetate	**910,000**	<316	<61.7	<54.7	<42.8	<57.9	<46.5	<46.5	<40.9	<61.1	<57.9	<44.8	<46.5	<40.9
Vinyl chloride	**59**	<63.2	<12.3	<10.9	<8.6	<11.6	<9.3	<9.3	<8.2	<12.2	<11.6	<9.0	<9.3	<8.2
Xylene (Total)	**580,000**	<63.2	<12.3	<10.9	<8.6	<11.6	<9.3	<9.3	<8.2	<12.2	<11.6	<9.0	<9.3	<8.2
cis-1,2-Dichloroethene	**160,000**	<31.6	<6.2	<5.5	<4.3	<5.8	**6.3**	**16.6**	**8.6**	<6.1	<5.8	<4.5	<4.6	<4.1
cis-1,3-Dichloropropene	**1,800**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<9.3	<4.1
m&p-Xylene	**550,000**	<63.2	<12.3	<10.9	<8.6	<11.6	<9.3	<9.3	<8.2	<12.2	<11.6	<9.0	<4.6	<8.2
n-Butylbenzene	**3,900,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
n-Propylbenzene	**3,300,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
o-Xylene	**650,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
p-Isopropyltoluene	**NSL**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
sec-Butylbenzene	**7,800,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
tert-Butylbenzene	**7,800,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
trans-1,2-Dichloroethene	**1,600,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1
trans-1,3-Dichloropropene	**72,000**	<31.6	<6.2	<5.5	<4.3	<5.8	<4.6	<4.6	<4.1	<6.1	<5.8	<4.5	<4.6	<4.1

Notes:
1. Concentrations shown in µg/kg.
2. PMW = Permanent Monitoring Well. Field representative identified samples with prefix "SB" as opposed to "PMW" on chain of custody. Therefore analytical report references sample IDs with SB prefix. Sample depth in feet indicated in parentheses.
3. EPA Residential Soil RSL = Federal Remediation Branch Regional Screening Levels for Residential Soil dated January 2015. Lower of carcenogenic or noncarcenogenic RSL shown in above table.
4. NSL = No Standard Listed.
5. Bold values indicate a concentration above the laboratory reporting limit.
6. Shaded values indicate a concentratin above the EPA Residential Soil RSL

Table 4: Groundwater Field Parameter Measurements
Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC
W&R Project No. 03130430.01

Monitoring Well ID	Date Measured	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation Reduction Potential (mV)
PMW-1A	09/23/15	6.12	0.240	15	0.15	21.80	-97.1
PMW-1B	09/23/15	8.50	0.387	5.6	0.70	21.20	5.6
PMW-2A	09/23/15	5.12	0.144	1.50	1.76	19.70	178.6
PMW-2B	09/23/15	5.71	0.178	0.25	1.47	20.72	209.4
PMW-3A	09/23/15	5.99	0.150	8.7	0.20	20.10	110
PMW-5A	09/23/15	6.37	0.258	7.3	0.22	22.40	98
PMW-6A	09/23/15	5.78	0.385	10.10	0.79	22.61	151.9
PMW-7A	09/23/15	6.00	0.19	1.60	0.36	20.60	0.181
PMW-7B	09/23/15	6.84	0.190	1.37	5.18	19.98	97.7
PMW-8A	09/22/15	7.00	0.173	16.8	0.41	20.80	145
PMW-8B	09/22/15	8.67	0.917	3.3	1.59	20.50	133
PMW-9A	09/22/15	6.20	0.501	49.62	0.41	20.31	-34.9
PMW-9B	09/22/15	6.42	0.449	55	0.21	20.00	35
PMW-9C	09/22/15	6.20	0.283	1.69	0.81	20.15	134.9
PMW-10A	09/22/15	6.21	0.268	4.50	4.52	19.55	148.1
PMW-10B	09/22/15	6.65	0.282	3.00	2.15	19.90	195
PMW-11A	09/22/15	6.64	0.245	1.76	4.39	19.64	103.6
PMW-11B	09/22/15	7.39	0.251	2.8	3.95	19.70	185
PMW-12A	09/22/15	5.77	0.343	10.56	0.73	18.44	101.5
PMW-12B	09/22/15	6.39	0.319	5.5	0.41	18.20	158
PMW-13B	09/22/15	6.95	0.272	15.9	3.89	21.95	36.8
PMW-18B	09/23/15	5.10	0.215	1.32	2.84	21.52	210.1
PMW-20A	09/23/15	5.70	0.151	2.1	0.21	21.00	118
PMW-20B	09/23/15	5.78	0.162	1.7	0.21	20.40	150
PMW-21A	09/23/15	6.40	0.187	1.84	1.40	21.55	117.5
PMW-21B	09/23/15	6.72	0.246	1.3	3.05	21.70	158
PMW-22A	09/22/15	6.60	0.179	0	1.32	18.67	93.1
PMW-22B	09/22/15	6.40	0.187	2.7	4.03	18.50	116

Notes:

1. mS/cm = Milisiemens per centimeter
2. NTU = Nephelometric Turbidity Units
3. mg/L = Milligrams per liter
4. °C = Degrees Celsius
5. mV = Millivolts
6. Readings obtained at the end of purging process, just prior to the time of sampling

Table 5: Groundwater Analytical Results
Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC
W&R Project No. 03130430.01

Volatile Organic Compound Name	2L Standard or EPA TAP SL	Max value detected excluding PMW-20A 12/04/14	PMW-1A	Dup-5**	PMW-1A	PMW-1B	PMW-1B	PMW-2A	PMW-2A	PMW-2B	PMW-2B	PMW-3A	PMW-3A	PMW-4A	PMW-5A	PMW-5A	PMW-6A	Dup-2*	PMW-6A
			TD = 12 ft	TD = 12 ft	TD = 12 ft	TD = 54 ft	TD = 54 ft	TD = 30 ft	TD = 30 ft	TD = 55 ft	TD = 55 ft	TD = 25 ft	TD = 25 ft	TD = 12 ft	TD = 39 ft	TD = 39 ft	TD = 38 ft	TD = 38 ft	TD = 38 ft
			9/26/2012	9/26/2012	9/23/2015	9/26/2012	9/23/2015	9/26/2012	9/23/2015	9/26/2012	9/23/2015	9/26/2012	9/23/2015	6/28/2012	6/28/2012	9/23/2015	6/27/2012	6/27/2012	9/23/2015
1,1,1,2-Tetrachloroethane	0.57	15.2	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	15.2
1,1,1-Trichloroethane	200	6,280	222	169	184	6.4	<5.0	16.9	35.9	18.2	<5.0	27.9	<10.0	157	6,280	1,950	<2000	<2,000	1,640
1,1,2,2-Tetrachloroethane	0.2	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,1,2-Trichloroethane	0.28	144	1.1	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	17.6	<2000	<2,000	22.9
1,1-Dichloroethane	6	132	16.5	<50	121	2.7	<5.0	1.5	<10.0	<1.0	<5.0	7.6	<10.0	63.5	<2000	72.8	<2000	<2,000	68.2
1,1-Dichloroethene	350	6,440	32.1	<50	43.9	2.5	<5.0	5.3	30.4	10.2	<5.0	16.5	<10.0	116	4,360	<5000	6,440	6,190	5,330
1,1-Dichloropropene	NSL	7.7	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,2,3-Trichlorobenzene	7	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,2,3-Trichloropropane	0.005	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,2,4-Trichlorobenzene	1.1	56.9	<1.0	<50	<10.0	1.4	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,2-Dibromo-3-chloropropane	0.04	0.0	<5.0	<250	<20.0	<5.0	<10.0	<5.0	<20.0	<5.0	<10.0	<5.0	<20.0	<200	<10000	<20.0	<10000	<10,000	<20.0
1,2-Dibromoethane (EDB)	0.02	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,2-Dichlorobenzene	20	3.1	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,2-Dichloroethane	0.4	22.6	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	10.9	<2000	<2,000	<10.0
1,2-Dichloropropane	0.6	57	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,3-Dichlorobenzene	200	6.9	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,3-Dichloropropane	0.4	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,4-Dichlorobenzene	6	24.7	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
2,2-Dichloropropane	NSL	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
2-Butanone (MEK)	4,000	0.0	<5.0	<250	<50.0	<5.0	<25.0	<5.0	<50.0	<5.0	<25.0	<5.0	<50.0	<200	<10000	<50.0	<10000	<10,000	<50.0
2-Chlorotoluene	100	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
2-Hexanone	38	0.0	<5.0	<250	<50.0	<5.0	<25.0	<5.0	<50.0	<5.0	<25.0	<5.0	<50.0	<200	<10000	<50.0	<10000	<10,000	<50.0
4-Chlorotoluene	250	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
4-Methyl-2-pentanone (MIBK)	1200	0.0	<5.0	<250	<50.0	<5.0	<25.0	<5.0	<50.0	<5.0	<25.0	<5.0	<50.0	<200	<10000	<50.0	<10000	<10,000	<50.0
Acetone	6,000	0.0	<25.0	<1,250	<250	<25.0	<125	<25.0	<250	<25.0	<125	<25.0	<250	<1000	<50000	<250	<50000	<50,000	<250
Benzene	1	21.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Bromobenzene	62	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Bromochloromethane	NSL	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<2.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Bromodichloromethane	0.6	5.2	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Bromoform	4	7.6	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Bromomethane	7.5	0.0	<2.0	<100	<20.0	<2.0	<10.0	<2.0	<20.0	<1.0	<10.0	<2.0	<20.0	<80.0	<4000	<20.0	<4000	<4,000	<20.0
Carbon tetrachloride	0.3	20.8	<1.0	<50	<10.0	<1.0	<5.0	<1.0	16.9	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Chlorobenzene	50	32.4	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Chloroethane	3,000	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Chloroform	70	62.1	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	16.9	<2000	<2,000	62.1
Chloromethane	3	634	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	2.3	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Dibromochloromethane	0.4	8.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Dibromomethane	8	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Dichlorodifluoromethane	1,000	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Diisopropyl ether	1,500	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Ethylbenzene	600	1.5	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	1.5	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Hexachloro-1,3-butadiene	0.4	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Methyl-tert-butyl ether	20	1.7	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Methylene Chloride	5	6,220	<2.0	<100	<20.0	<2.0	<10.0	<2.0	<20.0	<2.0	<10.0	<2.0	<20.0	<80.0	<4000	63.3	<4000	<4,000	887
Naphthalene	6	2.5	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	2.5	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Styrene	70	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
Tetrachloroethene	0.7	50,500	123.0	109	34.0	493.0	29.1	5,210	1,360	3,310	435	23,900	4,180	6,160	24,300	19,500	50,500	48,800	36,200
Toluene	600	121	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	4.1	<10.0	<40.0	<2000	<10.0	<2000	<2,000	121
Trichloroethene	3	124,000	5,210	4,520	150	322.0	38.5	202.0	243	839	124	7,070	478	2,650	163,000	88,600	128,000	123,000	94,200
Trichlorofluoromethane	2,000	546	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	546
Vinyl acetate	410	0.0	<2.0	<100	<20.0	<2.0	<10.0	<2.0	<20.0	<2.0	<10.0	<2.0	<20.0	<80.0	<4000	<20.0	<4000	<4,000	<20.0
Vinyl chloride	0.03	198	168	<50	198	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	14.3	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
cis-1,2-Dichloroethene	70	17,100	3,320	2,730	11,400	1,300	413	14.9	18.9	5.5	<5.0	17,100	420	165	3,600	5,170	5,800	5,450	6,930
cis-1,3-Dichloropropene	0.4	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
m&p-Xylene	500	29.1	<2.0	<100	<20.0	<2.0	<10.0	<2.0	<20.0	<2.0	<10.0	3.9	<20.0	<80.0	<4000	<20.0	<4000	<4,000	29.1
o-Xylene	500	23.3	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	2.8	<10.0	<40.0	<2000	<10.0	<2000	<2,000	23.3
p-Isopropyltoluene	NSL	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
trans-1,2-Dichloroethene	100	227	15.4	<50	21.8	3.7	<5.0	<1.0	<10.0	<1.0	<5.0	205	<10.0	<40.0	<2000	36.8	<2000	<2,000	227
trans-1,3-Dichloropropene	0.4	0.0	<1.0	<50	<10.0	<1.0	<5.0	<1.0	<10.0	<1.0	<5.0	<1.0	<10.0	<40.0	<2000	<10.0	<2000	<2,000	<10.0
1,4-Dioxane	3	1,000	<3.0	NA	<2.0	<3.0	<2.0	<3.0	<2.0	<3.0	<2.0	<3.0	<2.0	1,000	320	200	630	600	857

Table 5: Groundwater Analytical Results
Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC
W&R Project No. 03130430.01

Volatile Organic Compound Name	2L Standard or EPA TAP SL	Max value detected excluding PMW-20A 12/04/14	PMW-7A	PMW-7A	PMW-7B	PMW-7B	PMW-8A	PMW-8A	PMW-8B	PMW-8B	PMW-9A	PMW-9A	PMW-9B	PMW-9B	PMW-9C	PMW-9C	PMW-10A	PMW-10A	PMW-10B
			TD = 38 ft	TD = 38 ft	TD = 55 ft	TD = 55 ft	TD = 42 ft	TD = 42 ft	TD = 58 ft	TD = 58 ft	TD = 19 ft	TD = 19 ft	TD = 34 ft	TD = 34 ft	TD = 50 ft	TD = 50 ft	TD = 63 ft	TD = 63 ft	TD = 73 ft
			6/27/2012	9/23/2015	6/27/2012	9/23/2015	6/26/2012	9/22/2015	6/27/2012	9/22/2015	6/25/2012	9/22/2015	6/25/2012	9/22/2015	6/26/2012	9/22/2015	6/25/2012	9/22/2015	6/26/2012
1,1,1,2-Tetrachloroethane	0.57	15.2	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<50.0	<2.5	<5.0	<1.0	<50.0	<500	<50.0	<500	<25000	<500
1,1,1-Trichloroethane	200	6,280	<100	<10.0	<400	<10.0	<10.0	2.8	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	45.0	1,520	<5000	2,240
1,1,2,2-Tetrachloroethane	0.2	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<30.0	<2.5	<3.0	<1.0	<30.0	<500	<30.0	<500	<15000	<500
1,1,2-Trichloroethane	0.28	144	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	1.4	<10.0	<500	20.6	<500	<5000	<500
1,1-Dichloroethane	6	132	<100	<10.0	<400	<10.0	<10.0	1.6	<10.0	<50.0	8.2	10.7	4.4	<50.0	<500	<50.0	<500	<25000	<500
1,1-Dichloroethene	350	6,440	<100	13.7	<400	<10.0	20.6	20.2	23.6	<50.0	9.4	8.6	21.0	<50.0	1,920	1,030	5,490	<25000	5,750
1,1-Dichloropropene	NSL	7.7	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
1,2,3-Trichlorobenzene	7	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
1,2,3-Trichloropropane	0.005	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
1,2,4-Trichlorobenzene	1.1	56.9	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	2.5	56.9	18.7	<500	19.3	<500	<5000	<500
1,2-Dibromo-3-chloropropane	0.04	0.0	<500	<20.0	<2000	<20.0	<50.0	<2.0	<50.0	<130	<12.5	<13.0	<5.0	<130	<2500	<130	<2500	<65000	<2500
1,2-Dibromoethane (EDB)	0.02	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
1,2-Dichlorobenzene	20	3.1	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<50.0	<2.5	<5.0	3.1	<50.0	<500	<50.0	<500	<25000	<500
1,2-Dichloroethane	0.4	22.6	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	22.6	<500	<5000	<500
1,2-Dichloropropane	0.6	57	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
1,3-Dichlorobenzene	200	6.9	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	1.2	6.9	<10.0	<500	<10.0	<500	<5000	<500
1,3-Dichloropropane	0.4	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
1,4-Dichlorobenzene	6	24.7	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	6.8	9.3	24.7	11.1	<500	<10.0	<500	<5000	<500
2,2-Dichloropropane	NSL	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
2-Butanone (MEK)	4,000	0.0	<500	<50.0	<2000	<50.0	<50.0	<5.0	<50.0	<1000	<12.5	<100	<5.0	<1000	<2500	<1000	<2500	<500000	<2500
2-Chlorotoluene	100	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
2-Hexanone	38	0.0	<500	<50.0	<2000	<50.0	<50.0	<5.0	<50.0	<500	<12.5	<50.0	<5.0	<500	<2500	<500	<2500	<250000	<2500
4-Chlorotoluene	250	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
4-Methyl-2-pentanone (MIBK)	1200	0.0	<500	<50.0	<2000	<50.0	<50.0	<5.0	<50.0	<1000	<12.5	<100	<5.0	<1000	<2500	<1000	<2500	<500000	<2500
Acetone	6,000	0.0	<2500	<250	<10000	<250	<250	<25.0	<250	<1000	<62.5	<100	<25.0	<1000	<12500	<1000	<12500	<500000	<12500
Benzene	1	21.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	8.3	9.9	21.0	<10.0	<500	11.2	<500	<5000	<500
Bromobenzene	62	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Bromochloromethane	NSL	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<30.0	<2.5	<3.0	<1.0	<30.0	<500	<30.0	<500	<15000	<500
Bromodichloromethane	0.6	5.2	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Bromoform	4	7.6	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<30.0	<2.5	<3.0	<1.0	<30.0	<500	<30.0	<500	<15000	<500
Bromomethane	7.5	0.0	<200	<20.0	<800	<20.0	<20.0	<2.0	<20.0	<100	<5.0 UJ	<10.0 L2	<2.0	<100 L2	<1000 UJ	<100 L2	<1000 UJ	<50000	<1000 UJ
Carbon tetrachloride	0.3	20.8	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Chlorobenzene	50	32.4	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<30.0	<2.5	<3.0	32.4	<30.0	<500	<30.0	<500	<15000	<500
Chloroethane	3,000	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<100	<2.5	<10.0	<1.0	<100	<500	<100	<500	<50000	<500
Chloroform	70	62.1	<100	<10.0	<400	<10.0	13.7	10.5	11.6	<50.0	<2.5	<5.0	2.6	<50.0	<500	<50.0	<500	<25000	<500
Chloromethane	3	634	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0 L2	<1.0	<10.0 L2	<500	<10.0 L2	<500	<5000	<500
Dibromochloromethane	0.4	8.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<30.0	<2.5	<3.0	<1.0	<30.0	<500	<30.0	<500	<15000	<500
Dibromomethane	8	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<100	<2.5	<10.0	<1.0	<100	<500	<100	<500	<50000	<500
Dichlorodifluoromethane	1,000	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Diisopropyl ether	1,500	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Ethylbenzene	600	1.5	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Hexachloro-1,3-butadiene	0.4	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Methyl-tert-butyl ether	20	1.7	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Methylene Chloride	5	6,220	<200	<20.0	<800	<20.0	<20.0	<2.0	<20.0	<20.0 C9	<5.0	<2.0	<2.0	<20.0 C9	<1000	<20.0 C9	<1000	<10000	<1000
Naphthalene	6	2.5	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Styrene	70	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Tetrachloroethene	0.7	50,500	3,110	1,870	4,730	1,190	135	111	142	67.1	2.8	<1.0	842	284	39,900	8,440	23,500	12,200	24,000
Toluene	600	121	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	1.1	<10.0	<500	<10.0	<500	<5000	<500
Trichloroethene	3	124,000	11,300	5,320	28,400	9,390	1,490	943	1,430	1,060	131	32.1	2,790	800	77,800	33,900	164,000	94,700	170,000
Trichlorofluoromethane	2,000	546	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
Vinyl acetate	410	0.0	<200	<20.0	<800	<20.0	<20.0	<2.0	<20.0	<500	<5.0	<50.0	<2.0	<500	<1000 UJ	<500	<1000	<250000	<1000 UJ
Vinyl chloride	0.03	198	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	136	155	19.0	30.4	<500	30.3	<500	<5000	<500
cis-1,2-Dichloroethene	70	17,100	319	341	<400	22.4	45.7	44.9	46.9	63.1	397	710	964	829	549	796	2,910	<25000	2,740
cis-1,3-Dichloropropene	0.4	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
m&p-Xylene	500	29.1	<200	<20.0	<800	<20.0	<20.0	<2.0	<20.0	<20.0	<5.0	<2.0	<2.0	<20.0	<1000	<20.0	<1000	<10000	<1000
o-Xylene	500	23.3	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	3.0	<10.0	<500	<10.0	<500	<5000	<500
p-Isopropyltoluene	NSL	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
trans-1,2-Dichloroethene	100	227	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<50.0	17.1	12.2	4.7	<50.0	<500	<50.0	<500	<25000	<500
trans-1,3-Dichloropropene	0.4	0.0	<100	<10.0	<400	<10.0	<10.0	<1.0	<10.0	<10.0	<2.5	<1.0	<1.0	<10.0	<500	<10.0	<500	<5000	<500
1,4-Dioxane	3	1,000	12.0	3.2	3.8	2.7	140	<2.0	4.9	5.4	120	164	30.0	38.5	160	150	720	342	690

Table 5: Groundwater Analytical Results
Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC
W&R Project No. 03130430.01

Volatile Organic Compound Name	2L Standard or EPA TAP SL	Max value detected excluding PMW-20A 12/04/14	PMW-10B	PMW-11A	PMW-11A	PMW-11B	PMW-11B	PMW-12A	PMW-12A	PMW-12B	PMW-12B	PMW-13B	PMW-13B	PMW-14A	PMW-14B	PMW-16A
			TD = 73 ft	TD = 63 ft	TD = 63 ft	TD = 78 ft	TD = 78 ft	TD = 40 ft	TD = 40 ft	TD = 49 ft	TD = 49 ft	TD = 103 ft	TD = 103 ft	TD = 30 ft	TD = 50 ft	TD = 22 ft
			9/22/2015	6/26/2012	9/22/2015	6/26/2012	9/22/2015	6/28/2012	9/22/2015	6/28/2012	9/22/2015	9/25/2012	9/22/2014	9/25/2012	9/25/2012	9/24/2012
1,1,1,2-Tetrachloroethane	0.57	15.2	<1000	<200	<5.0	<50.0	<5.0	<1.0	<5.0	<1.0	<5.0	5.2	<50.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	6,280	<1000	<200	18.5	107	20.4	<1.0	<1.0	<1.0	<1.0	974	16.4	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	0.2	0.0	<1000	<200	<3.0	<50.0	<3.0	<1.0	<3.0	<1.0	<3.0	<1.0	<30.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	0.28	144	<1000	<200	1.4	<50.0	3.0	<1.0	<1.0	<1.0	<1.0	144	<10.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	132	<1000	<200	6.3	<50.0	7.8	2.1	<5.0	2.6	<5.0	123	<50.0	<1.0	<1.0	4.8
1,1-Dichloroethene	350	6,440	2,510	244	61.6	261	53	<1.0	<5.0	<1.0	<5.0	1,510	65.6	<1.0	<1.0	<1.0
1,1-Dichloropropene	NSL	7.7	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	7.7
1,2,3-Trichlorobenzene	7	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	0.005	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	1.1	56.9	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	0.04	0.0	<2000	<1000	<13.0	<250	<13.0	<5.0	<13.0	<5.0	<13.0	<5.0	<130	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	0.02	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	20	3.1	<1000	<200	<5.0	<50.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<50.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.4	22.6	<1000	<200	1.3	<50.0	2.6	<1.0	<1.0	<1.0	<1.0	5.4	<10.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	0.6	57	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	200	6.9	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	0.4	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	6	24.7	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NSL	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	4,000	0.0	<5000	<1000	<100	<250	<100	<5.0	<100	<5.0	<100	<5.0	<1000	<5.0	<5.0	<5.0
2-Chlorotoluene	100	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
2-Hexanone	38	0.0	<5000	<1000	<50.0	<250	<50.0	<5.0	<50.0	<5.0	<50.0	<5.0	<500	<5.0	<5.0	<5.0
4-Chlorotoluene	250	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	1200	0.0	<5000	<1000	<100	<250	<100	<5.0	<100	<5.0	<100	<5.0	<1000	<5.0	<5.0	<5.0
Acetone	6,000	0.0	<25000	<5000	<100	<1250	<100	<25.0	<100	<25.0	<100	<25.0	<1000	<25.0	<25.0	<25.0
Benzene	1	21.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	16.7	<10.0	<1.0	<1.0	1.8
Bromobenzene	62	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Bromochloromethane	NSL	0.0	<1000	<200	<3.0	<50.0	<3.0	<1.0	<3.0	<1.0	<3.0	<2.0	<30.0	<1.0	<1.0	<1.0
Bromodichloromethane	0.6	5.2	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<10.0	<1.0	<1.0	<1.0
Bromoform	4	7.6	<1000	<200	<3.0	<50.0	<3.0	<1.0	<3.0	<1.0	<3.0	<1.0	<30.0	<1.0	<1.0	<1.0
Bromomethane	7.5	0.0	<2000	<400 UJ	<10.0 L2	<100	<10.0 L2	<2.0	<10.0	<2.0	<10.0	<1.0	<100	<2.0	<2.0	<2.0
Carbon tetrachloride	0.3	20.8	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Chlorobenzene	50	32.4	<1000	<200	<3.0	<50.0	<3.0	<1.0	<3.0	<1.0	<3.0	<1.0	<30.0	<1.0	<1.0	<1.0
Chloroethane	3,000	0.0	<1000	<200	<10.0	<50.0	<10.0	<1.0	<10.0	<1.0	<10.0	<1.0	<100	<1.0	<1.0	<1.0
Chloroform	70	62.1	<1000	<200	<5.0	<50.0	<5.0	<1.0	<5.0	<1.0	<5.0	3.6	<50.0	<1.0	1.2	<1.0
Chloromethane	3	634	<1000	634	<1.0 L2	<50.0	<1.0 L2	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Dibromochloromethane	0.4	8.0	<1000	<200	<3.0	<50.0	<3.0	<1.0	<3.0	<1.0	<3.0	<1.0	<30.0	<1.0	<1.0	<1.0
Dibromomethane	8	0.0	<1000	<200	<10.0	<50.0	<10.0	<1.0	<10.0	<1.0	<10.0	<1.0	<100	<1.0	<1.0	<1.0
Dichlorodifluoromethane	1,000	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Diisopropyl ether	1,500	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Ethylbenzene	600	1.5	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	0.4	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether	20	1.7	<1000	<200	<1.0	<50.0	<1.0	1.6	1.1	1.7	1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Methylene Chloride	5	6,220	<2000	<400	<2.0	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20.0 C9	<2.0	<2.0	<2.0
Naphthalene	6	2.5	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<10.0	<1.0	<1.0	<1.0
Styrene	70	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Tetrachloroethene	0.7	50,500	7,910	2,110	378	2,160	474	<1.0	<1.0	<1.0	<1.0	21,000	598	<1.0	<1.0	1,380
Toluene	600	121	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	16.9	<10.0	<1.0	<1.0	<1.0
Trichloroethene	3	124,000	76,000	15,500	3,280	16,700	4,130	<1.0	<1.0	1.9	<1.0	57,500	2,930	<1.0	<1.0	730
Trichlorofluoromethane	2,000	546	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
Vinyl acetate	410	0.0	<2000	<400 UJ	<50.0	<100	<50.0	<2.0	<50.0	<2.0	<50.0	<2.0	<500	<2.0	<2.0	<2.0
Vinyl chloride	0.03	198	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<10.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	17,100	2,140	411	97.3	449	163	<1.0	<5.0	<1.0	<5.0	1,410	92.3	<1.0	<1.0	793
cis-1,3-Dichloropropene	0.4	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
m&p-Xylene	500	29.1	<2000	<400	<2.0	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0
o-Xylene	500	23.3	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.3	<10.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	NSL	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	100	227	<1000	<200	<5.0	<50.0	<5.0	<1.0	<5.0	<1.0	<5.0	15.8	<50.0	<1.0	<1.0	3.5
trans-1,3-Dichloropropene	0.4	0.0	<1000	<200	<1.0	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0
1,4-Dioxane	3	1,000	322	1100 JH	7.0	18.0	20.3	12.0	4.8	9.5	4.8	18.0	18.3	<3.0	<3.0	19.0

Table 5: Groundwater Analytical Results
Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC
W&R Project No. 03130430.01

Volatile Organic Compound Name	2L Standard or EPA TAP SL	Max value detected excluding PMW-20A 12/04/14	PMW-16B	PMW-17A	PMW-17B	PMW-18A	PMW-18B	PMW-18B	PMW-20A	Duplicate	PMW-20A	Duplicate	PMW-20B	PMW-20B	PMW-21A	PMW-21A	PMW-21B	PMW-21B
			TD = 55 ft	TD = 22 ft	TD = 50 ft	TD = 22 ft	TD = 43 ft	TD = 43 ft	TD = 39 ft	TD = 39 ft	TD = 39 ft	TD = 39 ft	TD = 60 ft	TD = 60 ft	TD = 35 ft	TD = 35 ft	TD = 67 ft	TD = 67 ft
			9/24/2012	9/24/2012	9/24/2012	9/25/2012	9/25/2012	9/23/2015	12/12/2014	PMW-20A	9/23/2015	PMW-20A	12/12/2014	9/23/2015	12/11/2014	9/23/2015	12/11/2014	9/23/2015
1,1,1,2-Tetrachloroethane	0.57	15.2	<1.0	<1.0	<1.0	<5.0	<10	<5.0	<2500	<2500	<50.0	<50.0	<125	<200	<20	<10.0	<100	<10.0
1,1,1-Trichloroethane	200	6,280	5.4	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	37.6
1,1,2,2-Tetrachloroethane	0.2	0.0	<1.0	<1.0	<1.0	<5.0	<10	<3.0	<2500	<2500	<30.0	<30.0	<125	<120	<20	<10.0	<100	<10.0
1,1,2-Trichloroethane	0.28	144	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,1-Dichloroethane	6	132	132	<1.0	<1.0	<5.0	<10	<5.0	<2500	<2500	<50.0	<50.0	<125	<200	<20	<10.0	<100	<10.0
1,1-Dichloroethene	350	6,440	138	<1.0	<1.0	<5.0	<10	<5.0	<2500	<2500	<50.0	<50.0	<125	<200	<20	13.1	<100	103 D6
1,1-Dichloropropene	NSL	7.7	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,2,3-Trichlorobenzene	7	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,2,3-Trichloropropane	0.005	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,2,4-Trichlorobenzene	1.1	56.9	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,2-Dibromo-3-chloropropane	0.04	0.0	<5.0	<5.0	<5.0	<25.0	<50	<13.0	<2500	<2500	<130	<130	<125	<520	<20	<20.0	<100	<20.0
1,2-Dibromoethane (EDB)	0.02	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,2-Dichlorobenzene	20	3.1	<1.0	<1.0	<1.0	<5.0	<10	<5.0	<2500	<2500	<50.0	<50.0	<125	<200	<20	<10.0	<100	<10.0
1,2-Dichloroethane	0.4	22.6	1.2	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,2-Dichloropropane	0.6	57	57.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,3-Dichlorobenzene	200	6.9	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,3-Dichloropropane	0.4	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,4-Dichlorobenzene	6	24.7	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
2,2-Dichloropropane	NSL	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
2-Butanone (MEK)	4,000	0.0	<5.0	<5.0	<5.0	<25.0	<50	<100	<12500	<12500	<1000	<1000	<625	<4000	<100	<50.0	<500	<50.0
2-Chlorotoluene	100	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
2-Hexanone	38	0.0	<5.0	<5.0	<5.0	<25.0	<50	<50.0	<12500	<12500	<500	<500	<625	<2000	<100	<50.0	<500	<50.0
4-Chlorotoluene	250	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
4-Methyl-2-pentanone (MIBK)	1200	0.0	<5.0	<5.0	<5.0	<5.0	<50	<100	<12500	<12500	<1000	<1000	<625	<4000	<100	<50.0	<500	<50.0
Acetone	6,000	0.0	<25.0	<25.0	<25.0	<125	<250	<100 M1	<62500	<62500	<1000	<1000	<3120	<4000	<50	<250	<2500	<250
Benzene	1	21.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Bromobenzene	62	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Bromochloromethane	NSL	0.0	<1.0	<1.0	<1.0	<10.0	<10	<3.0	<2500	<2500	<30.0	<30.0	<125	<120	<20	<10.0	<100	<10.0
Bromodichloromethane	0.6	5.2	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Bromoform	4	7.6	<1.0	<1.0	<1.0	<5.0	<10	<3.0	<2500	<2500	<30.0	<30.0	<125	<120	<20	<10.0	<100	<10.0
Bromomethane	7.5	0.0	<2.0	<2.0	<2.0	<5.0	<20	<10.0	<2500	<2500	<100	<100	<250	<400	<40	<20.0 L2	<200	<20.0 L2
Carbon tetrachloride	0.3	20.8	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	20.8	13.2	<125	<40.0	<20	<10.0	<100	<10.0
Chlorobenzene	50	32.4	<1.0	<1.0	<1.0	<5.0	<10	<3.0	<2500	<2500	<30.0	<30.0	<125	<120	<20	<10.0	<100	<10.0
Chloroethane	3,000	0.0	<1.0	<1.0	<1.0	<5.0	<10	<10.0	<2500	<2500	<100	<100	<125	<400	<20	<10.0	<100	<10.0
Chloroform	70	62.1	<1.0	<1.0	<1.0	<5.0	<10	<5.0	<2500	<2500	<50.0	<50.0	<125	<200	<20	<10.0	<100	<10.0
Chloromethane	3	634	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0 L2	<100	<10.0 L2
Dibromochloromethane	0.4	8.0	<1.0	<1.0	<1.0	<5.0	<10	<3.0	<2500	<2500	<30.0	<30.0	<125	<120	<20	<10.0	<100	<10.0
Dibromomethane	8	0.0	<1.0	<1.0	<1.0	<5.0	<10	<10.0	<2500	<2500	<100	<100	<125	<400	<20	<10.0	<100	<10.0
Dichlorodifluoromethane	1,000	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Diisopropyl ether	1,500	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Ethylbenzene	600	1.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Hexachloro-1,3-butadiene	0.4	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0 M1	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Methyl-tert-butyl ether	20	1.7	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Methylene Chloride	5	6,220	44.1	<2.0	<2.0	<10.0	<20	<2.0	6220	<2500	<20.0	<20.0 C9	<250	<80.0	<40	<20.0	<200	<20.0
Naphthalene	6	2.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Styrene	70	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Tetrachloroethene	0.7	50,500	903	26.1	97.8	47.5	<10	<1.0	<2500	<2500	<10.0	19.9	<125	<40.0	1,350	1,030	11,900	8,330
Toluene	600	121	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Trichloroethene	3	124,000	4,120	3.9	3.1	1,050	951	131 M1	422,000	380,000	124,000	93,900	16,200	3,830	2,190	1,260	15,100	12,000
Trichlorofluoromethane	2,000	546	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
Vinyl acetate	410	0.0	<2.0	<2.0	<2.0	<10.0	<20	<50.0	<5000	<5000	<500	<500	<250	<2000	<40	<20.0	<200	<20.0
Vinyl chloride	0.03	198	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
cis-1,2-Dichloroethene	70	17,100	82.4	<1.0	<1.0	458	<10	<5.0	<2500	<2500	<50.0	<50.0	<125	<200	137	167	250	38.7
cis-1,3-Dichloropropene	0.4	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
m&p-Xylene	500	29.1	<2.0	<2.0	<2.0	<10.0	<20	<2.0	<5000	<5000	<20.0	<20.0	<250	<80.0	<40	<20.0	<200	<20.0
o-Xylene	500	23.3	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<200	<10.0
p-Isopropyltoluene	NSL	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
trans-1,2-Dichloroethene	100	227	2.7	<1.0	<1.0	<5.0	<10	<5.0	<2500	<2500	<50.0	<50.0	<125	<200	<20	<10.0	<100	<10.0
trans-1,3-Dichloropropene	0.4	0.0	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<2500	<2500	<10.0	<10.0	<125	<40.0	<20	<10.0	<100	<10.0
1,4-Dioxane	3	1,000	16.0	<3.0	<3.0	20.0	<3.0	<2.0	NA	NA	<2.0	<2.0	NA	<2.0	NA	<2.0	NA	4.0

Table 5: Groundwater Analytical Results
Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC
W&R Project No. 03130430.01

Volatile Organic Compound Name	2L Standard or EPA TAP SL	Max value detected excluding PMW-20A 12/04/14	PMW-22A	PMW-22A	PMW-22B	PMW-22B	TAP
			TD = 63 ft	TD = 63 ft	TD = 86 ft	TD = 86 ft	NA
			12/11/2014	9/22/2015	12/11/2014	9/22/2015	9/23/2015
1,1,1,2-Tetrachloroethane	**0.57**	**15.2**	<1.0	<5.0	<1.0	<5.0	<1.0
1,1,1-Trichloroethane	**200**	**6,280**	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	**0.2**	**0.0**	<1.0	<3.0	<1.0	<3.0	<1.0
1,1,2-Trichloroethane	**0.28**	**144**	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	**6**	**132**	<1.0	<5.0	<1.0	<5.0	<1.0
1,1-Dichloroethene	**350**	**6,440**	<1.0	<5.0	<1.0	<5.0	<1.0
1,1-Dichloropropene	**NSL**	**7.7**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	**7**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	**0.005**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	**1.1**	**56.9**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	**0.04**	**0.0**	<1.0	<13.0	<1.0	<13.0	<2.0
1,2-Dibromoethane (EDB)	**0.02**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	**20**	**3.1**	<1.0	<5.0	<1.0	<5.0	<1.0
1,2-Dichloroethane	**0.4**	**22.6**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	**0.6**	**57**	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	**200**	**6.9**	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	**0.4**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	**6**	**24.7**	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	**NSL**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	**4,000**	**0.0**	<1.0	<100	<1.0	<100	<5.0
2-Chlorotoluene	**100**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	**38**	**0.0**	<5.0	<50.0	<5.0	<50.0	<5.0
4-Chlorotoluene	**250**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	**1200**	**0.0**	<5.0	<100	<5.0	<100	<5.0
Acetone	**6,000**	**0.0**	<25	<100	<25	<100	<25.0
Benzene	**1**	**21.0**	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	**62**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	**NSL**	**0.0**	<1.0	<3.0	<1.0	<3.0	<1.0
Bromodichloromethane	**0.6**	**5.2**	**1.1**	**5.2**	<1.0	<1.0	**23.9**
Bromoform	**4**	**7.6**	**3.0**	**7.6**	<1.0	<3.0	**17.4**
Bromomethane	**7.5**	**0.0**	<2.0	<10.0 L2	<2.0	<10.0 L2	<2.0
Carbon tetrachloride	**0.3**	**20.8**	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	**50**	**32.4**	<1.0	<3.0	<1.0	<3.0	<1.0
Chloroethane	**3,000**	**0.0**	<1.0	<10.0	<1.0	<10.0	<1.0
Chloroform	**70**	**62.1**	**10.6**	**8.2**	**9.7**	**11.6**	**11.7**
Chloromethane	**3**	**634**	<1.0	<1.0 L2	<1.0	<1.0 L2	<1.0
Dibromochloromethane	**0.4**	**8.0**	**2.9**	**8.0**	<1.0	<3.0	**35.4**
Dibromomethane	**8**	**0.0**	<1.0	<10.0	<1.0	<10.0	<1.0
Dichlorodifluoromethane	**1,000**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl ether	**1,500**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	**600**	**1.5**	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	**0.4**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether	**20**	**1.7**	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	**5**	**6,220**	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	**6**	**2.5**	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	**70**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	**0.7**	**50,500**	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	**600**	**121**	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	**3**	**124,000**	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	**2,000**	**546**	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	**410**	**0.0**	<2.0	<50.0	<2.0	<50.0	<2.0
Vinyl chloride	**0.03**	**198**	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	**70**	**17,100**	<1.0	<5.0	<1.0	<5.0	<2.0
cis-1,3-Dichloropropene	**0.4**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	**500**	**29.1**	<2.0	<2.0	<2.0	<2.0	<1.0
o-Xylene	**500**	**23.3**	<1.0	<1.0	<1.0	<1.0	<2.0
p-Isopropyltoluene	**NSL**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	**100**	**227**	<1.0	<5.0	<1.0	<5.0	<1.0
trans-1,3-Dichloropropene	**0.4**	**0.0**	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	**3**	**1,000**	NA	<2.0	NA	<2.0	NA

Notes:
1. Concentrations shown in µg/L.
2. 2L Standard = Groundwater Standard established in Title 15A of the North Carolina Administrative Code Subchapter 2L section .0202, last amended April 1, 2013.
3. EPA TAP SL = Tap water screening level established in EPA Regional Screening Level Summary Table (TR=1E-6, HQ =1) January 2015
4. NSL = No Standard or Screening Level Listed.
5. Bold values indicate detected concentration above the laboratory reporting limit.
6. Shaded values indicate a concentration above the 2L Standard or EPA TAP SL. = Sample collected in Sept. 2015 = Sample collected in Dec. 2014
7. C9-Common Laboratory Contaminant
8. D6-The relative percent difference between the sample and the sample duplicate exceeded laboratory control limits
9. M1-Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample recovery
10. Well PMW-4 was dry at the time of sampling
11. Off-site wells PMW-14A and PMW-14B are in deep woods to the west of the site and could not be found
12. Wells PMW-16A, PMW-16B, PMW-17A, and PMW-17B are in rail construction equipment storage area and were not accessible at the time of sampling.
13. Well PMW-18A outside protective casing was bent. Field sampling equipment could not be advanced beyond 5.5 feet below top of casing. Therefore, PMW-18A was not sampled.
14. NA = Not Analyzed for this compound

Table 6: Summary of QA/QC Sample Analytical Results

Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC

W&R Project No. 03130430.01

Volatile Organic Compound Name	Rinsate 12/1/2014	Rinsate 12/3/2014	Rinsate 12/4/2014	Rinsate 12/8/2014	Rinsate 12/9/2014	Rinsate 12/11/2014	Rinsate 12/12/2014	Trip Blank 12/12/2014	Rinsate 9/22/2015	Field Blank 9/22/2015	Trip Blank 9/22/2015	Trip Blank 9/22/2015	Equip. Blank 9/23/2015	Field Blank 9/23/2015	Trip Blank 9/23/2015	Trip Blank 9/23/2015
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 L2	<5.0 L2	<5.0	<5.0	<5.0	<5.0
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 L2	<1.0 L2	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-butadiene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 L3	<1.0 L3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-butyl ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 C9	<1.0 C9	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl acetate	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m&p-Xylene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

1. Concentrations shown in µg/L.
2. L2-Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
3. L3-Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
4. C9-Common Laboratory Contaminant
5. Sample named "Rinsate" is the equipment blank prepared on September 22, 2015

Table 7: Summary of Hydraulic Conductivity Test Results
Trex Properties: 3114 and 3124 Cullman Avenue, Charlotte, NC
W&R Project No. 03130430.01

Well ID	Portion of Aquifer Tested	Test Type	Hydraulic Conductivity (ft/day)	Hydraulic Conductivity (cm/sec)
PMW-1A	Saprolite	Slug-in	4.2	1.5E-03
		Slug-out	4.3	1.5E-03
PMW-10A	Saprolite	Slug-in	1.4	5.0E-04
		Slug-out	2.1	7.4E-04
Avg K for Saprolite Portion of Aquifer			***3.0***	***1.1E-03***
PMW-1B	PWR	Slug-in	1.3	4.6E-04
		Slug-out	1.3	4.5E-04
PMW-10B	PWR	Slug-in	2.9	1.0E-03
		Slug-out	5.5	2.0E-03
Avg K for PWR Portion of Aquifer			***2.8***	***9.8E-04***
PMW-13B	Bedrock	Slug-in	0.04	1.4E-05
		Slug-out	0.02	7.5E-06
Avg K for Bedrock Portion of Aquifer			***0.03***	***1.1E-05***

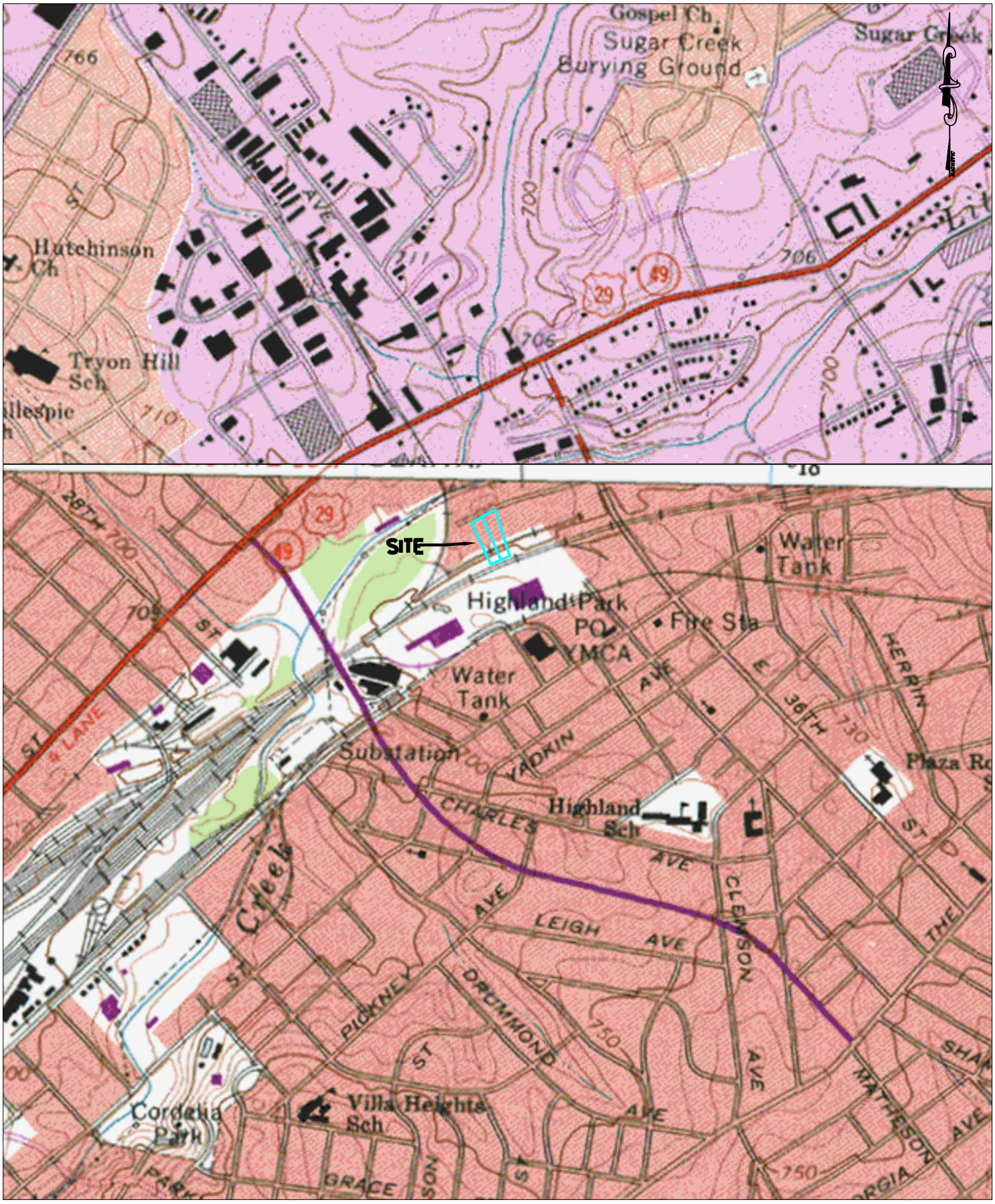
Notes:
1. ft/day = feet per day
2. cm/sec = centimeters per second
3. Avg K = average hydraulic conductivity
4. PWR = partially weathered rock
5. Test data and hydraulic conductivity calculation are included in Appendix C of Phase III RFI Report

Figures

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245



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GENERAL LOCATION MAP

TREX PROPERTIES, CHARLOTTE, NC
CHARLOTTE, NORTH CAROLINA

USGS CHARLOTTE EAST, NC
7.5 min. Quadrangle

DRAWN BY:	SCALE:	FIGURE NO.
CF	1"=1000'	1
APPROVED BY:	DATE:	JOB NO:
BB	10/08/15	03130430

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 10/13/2015 12:12 PM FAY, CHRISTOPHER

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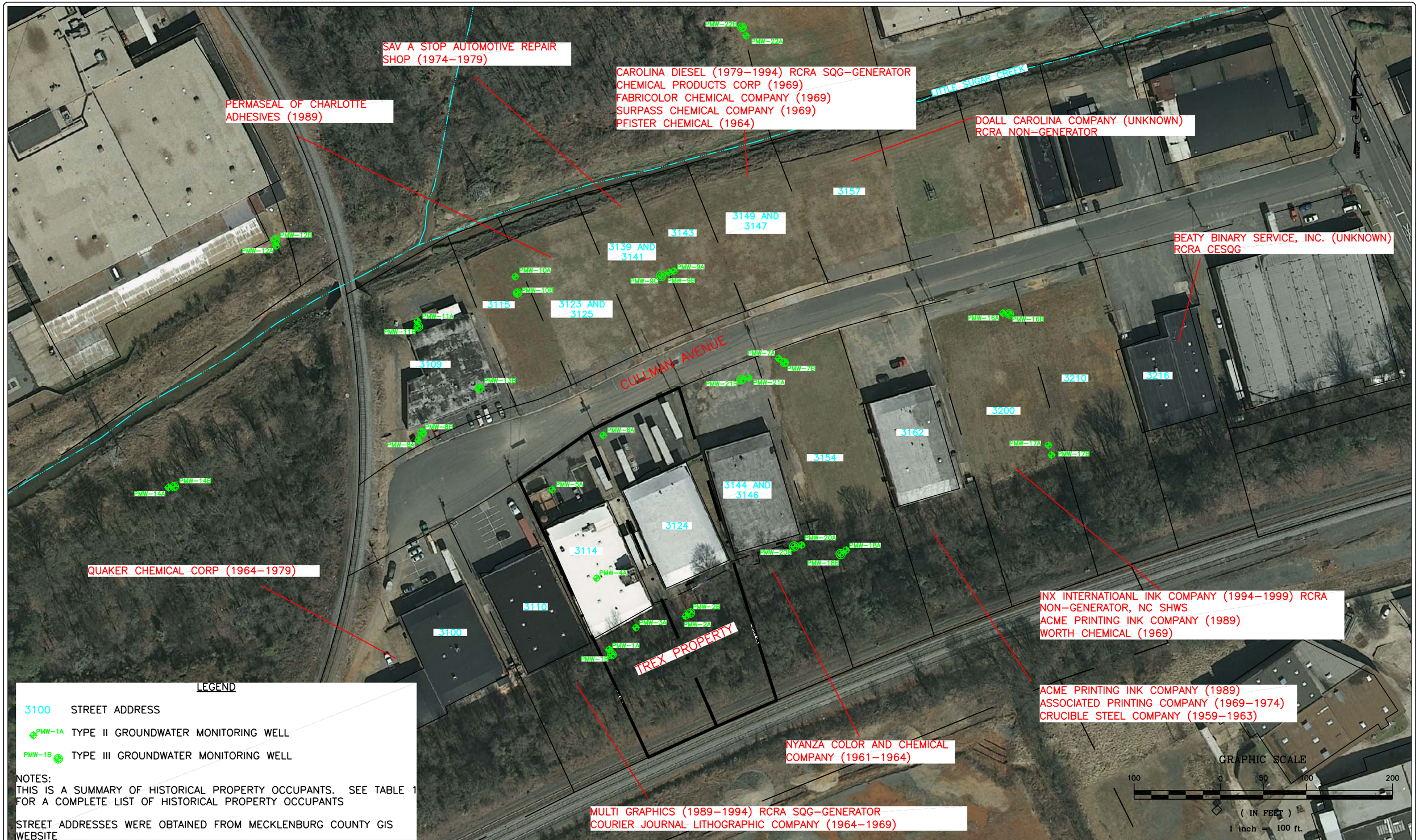
TREX PROPERTIES CHARLOTTE, NC
3114 AND 3124 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

MONITORING WELL LOCATION AND TOPOGRAPHIC MAP

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	1/13/15

Job No.	03130430
Sheet No.	2

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 10/21/2015 9:08 AM FAY, CHRISTOPHER 1:1



LEGEND

3100 STREET ADDRESS

PMW-1A TYPE II GROUNDWATER MONITORING WELL

PMW-1B TYPE III GROUNDWATER MONITORING WELL

NOTES:
THIS IS A SUMMARY OF HISTORICAL PROPERTY OCCUPANTS. SEE TABLE 1 FOR A COMPLETE LIST OF HISTORICAL PROPERTY OCCUPANTS

STREET ADDRESSES WERE OBTAINED FROM MECKLENBURG COUNTY GIS WEBSITE

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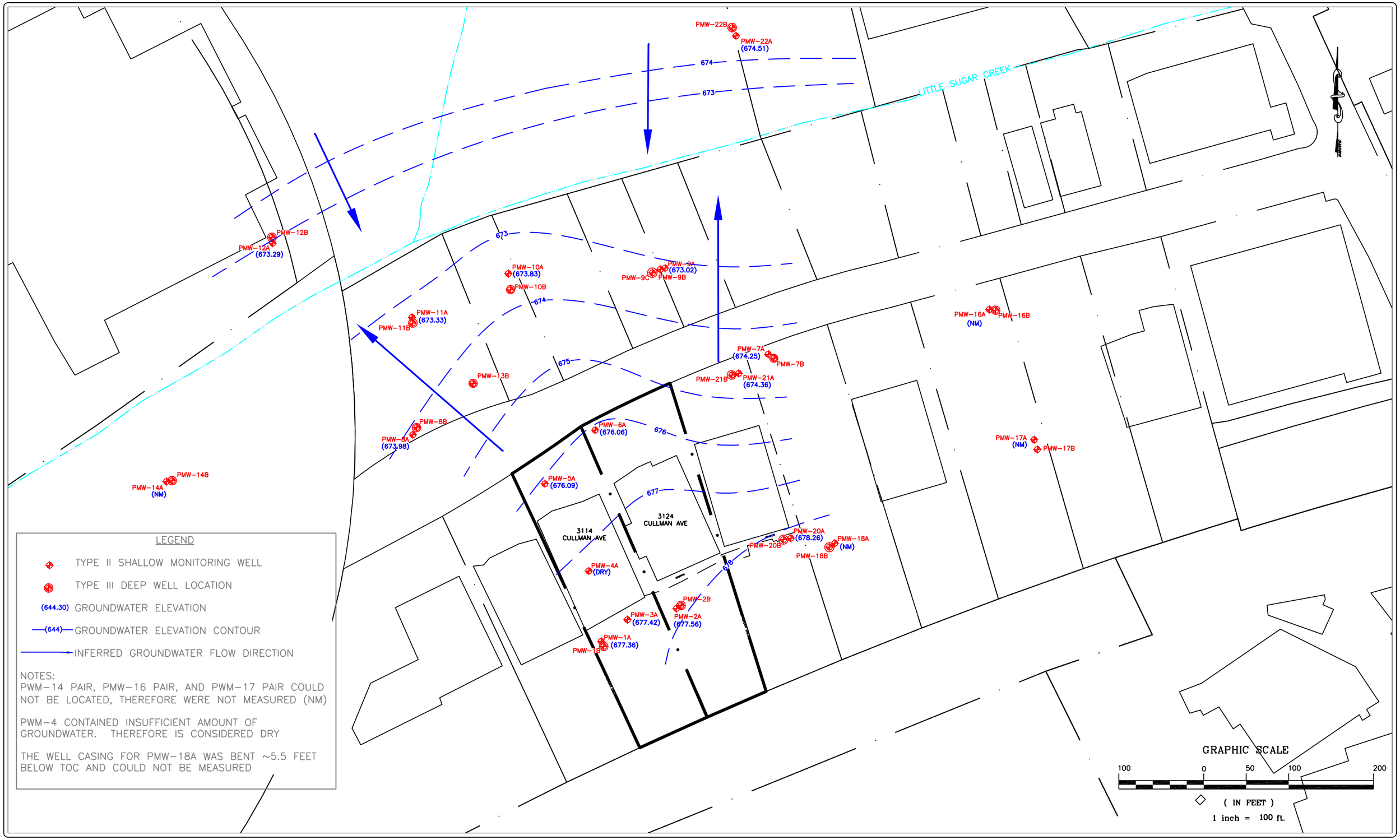
TREX PROPERTIES CHARLOTTE, NC
3114 AND 3124 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

VICINITY MAP SHOWING FORMER PROPERTY USE ON CULLMAN AVENUE

Drawn By CF
Checked By BB
Scale 1"=100'
Date 1/13/15

Job No. 03130430
Sheet No. 3

W:\13\13-0430\130430.04-TREX HISTORICAL REVIEW\CAD\TREX PROPERTY - BASEMAP.DWG 11/22/2015 8:44 AM FAY, CHRISTOPHER 1:1



LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (644.30) GROUNDWATER ELEVATION
- —(644)— GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT MEASURED (NM)

PWM-4 CONTAINED INSUFFICIENT AMOUNT OF GROUNDWATER. THEREFORE IS CONSIDERED DRY

THE WELL CASING FOR PMW-18A WAS BENT ~5.5 FEET BELOW TOC AND COULD NOT BE MEASURED

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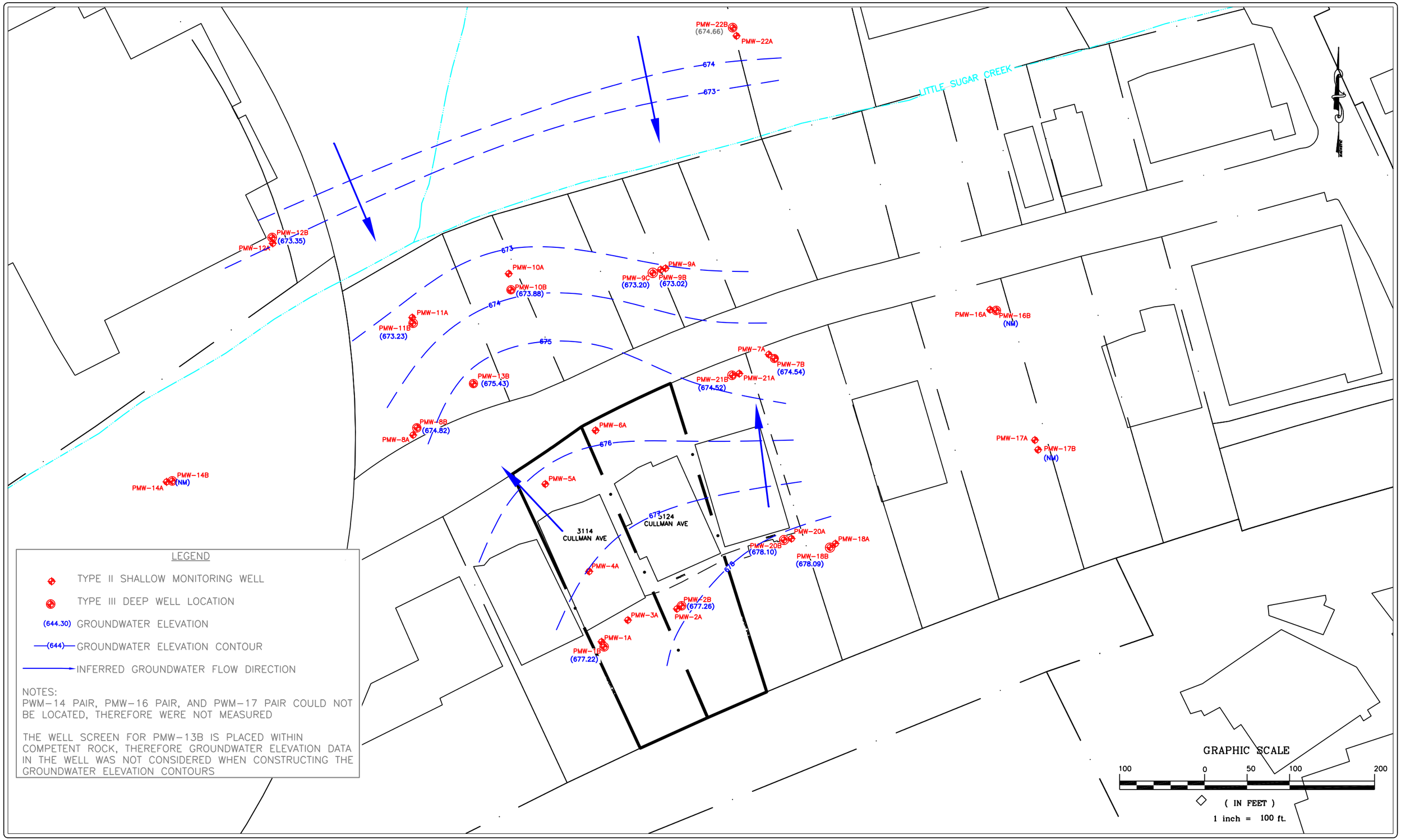
TREX PROPERTIES CHARLOTTE, NC
3114 AND 3124 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

SHALLOW GROUNDWATER ELEVATION CONTOUR MAP

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No.	03130430
Sheet No.	4

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 8:30 AM FAY, CHRISTOPHER 1:1



LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (644.30) GROUNDWATER ELEVATION
- —(644)— GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT MEASURED

THE WELL SCREEN FOR PMW-13B IS PLACED WITHIN COMPETENT ROCK, THEREFORE GROUNDWATER ELEVATION DATA IN THE WELL WAS NOT CONSIDERED WHEN CONSTRUCTING THE GROUNDWATER ELEVATION CONTOURS

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TREX PROPERTIES CHARLOTTE, NC
3114 AND 3124 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

DEEP GROUNDWATER ELEVATION CONTOUR MAP

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

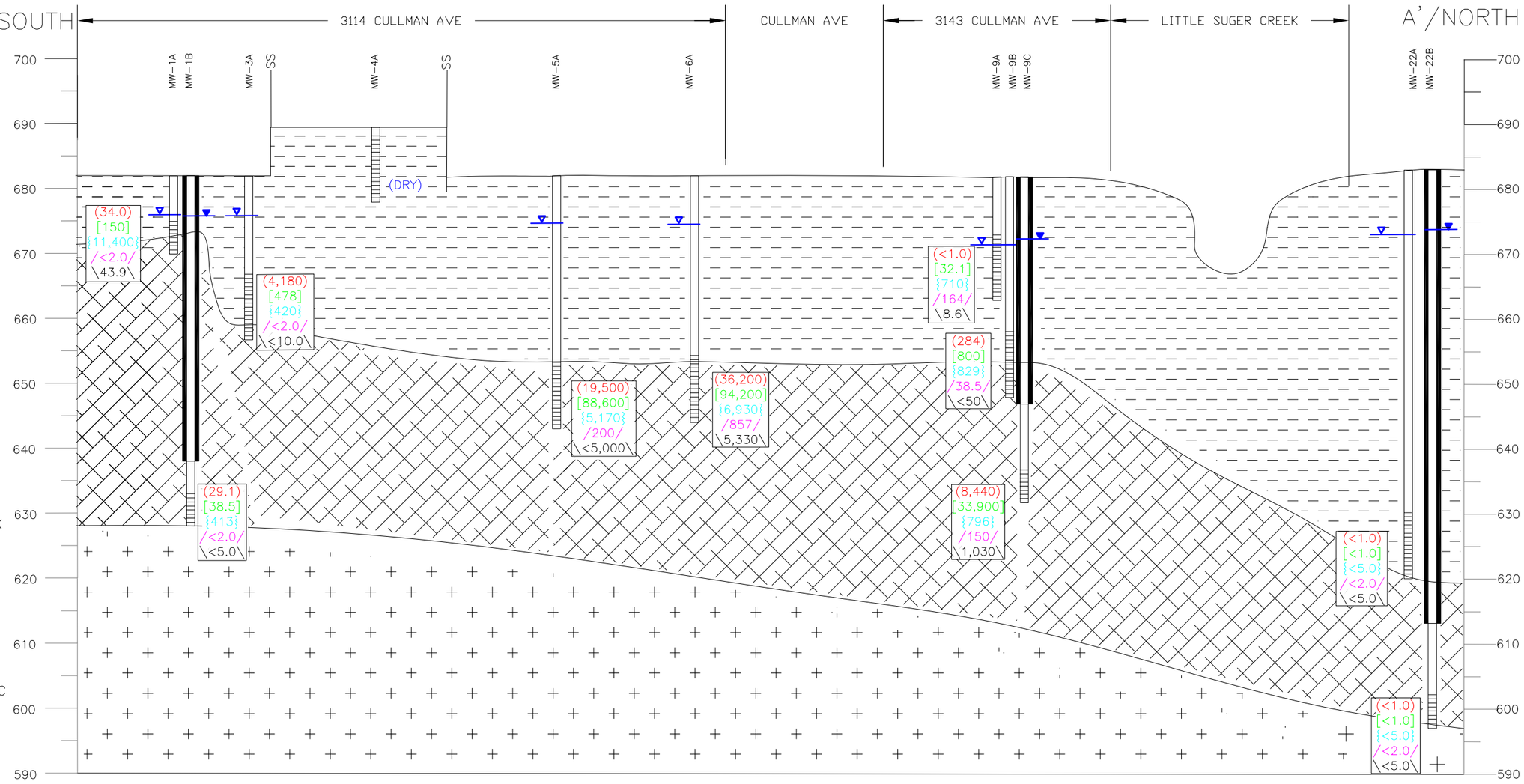
Job No.	03130430
Sheet No.	5

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 8:40 AM FAY, CHRISTOPHER 1:1

LEGEND

- OUTER WELL CASING INTERVAL
- WELL SCREEN INTERVAL
- INNER WELL CASING INTERVAL
- (2.8) PCE CONCENTRATION
- [2.8] TCE CONCENTRATION
- {2.8} Cis 1,2 DCE CONCENTRATION
- /2.8/ 1,4 DIOXANE CONCENTRATION
- \2.8\ 1,1 DCE CONCENTRATION
- SHALLOW GROUNDWATER TABLE
- DEEPER GROUNDWATER TABLE
- RESIDUAL SOIL/SAPROLITE
- PARTIALLY WEATHERED BEDROCK
- COMPETENT ROCK

NOTE;
INFERRED BOUNDARIES BETWEEN GEOLOGIC UNITS ARE TRANSITIONAL.



4X VERTICAL EXAGGERATION

GRAPHIC SCALE

70 0 35 70 140

(IN FEET)

1 inch = 70 ft.

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DETREX FACILITY
3114 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

GEOLOGICAL CROSS SECTION A–A' WITH ANALYTICAL RESULTS

Drawn By CF
Checked By BB
Scale 1"=70'
Date 10/13/15
Job No. 03130430
Sheet No. 6

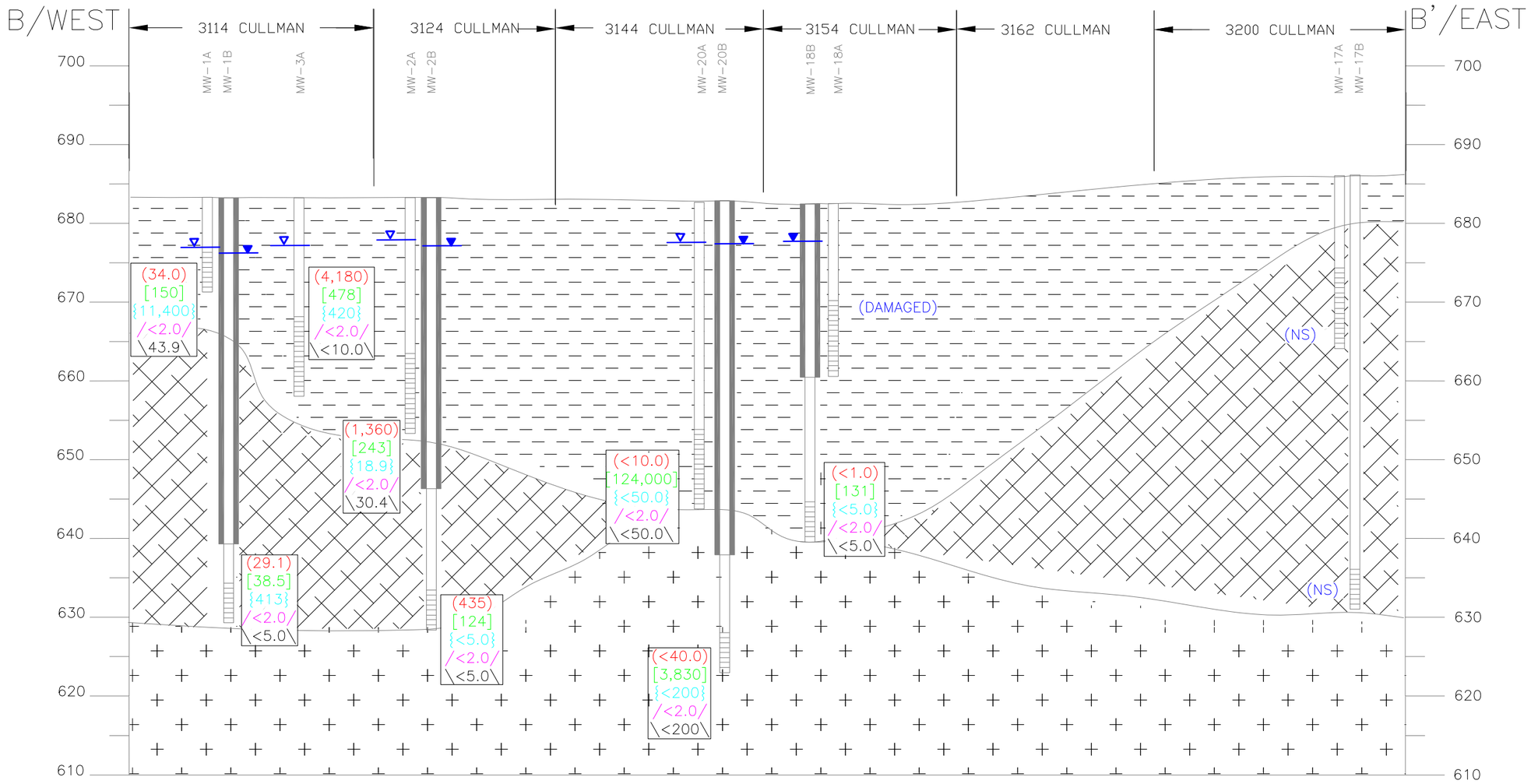
W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - CROSS SECTIONS-GW ASSESSMENT-20151009.DWG 11/2/2015 4:01 PM FAY, CHRISTOPHER 1:1

LEGEND

- OUTER WELL CASING INTERVAL
- WELL SCREEN INTERVAL
- INNER WELL CASING INTERVAL
- (2.8) PCE CONCENTRATION
- [2.8] TCE CONCENTRATION
- {2.8} Cis 1,2 DCE CONCENTRATION
- /2.8/ 1,4 DIOXANE CONCENTRATION
- \2.8\ 1,1 DCE CONCENTRATION
- SHALLOW GROUNDWATER TABLE
- DEEPER GROUNDWATER TABLE
- RESIDUAL SOIL/SAPROLITE
- PARTIALLY WEATHERED BEDROCK
- COMPETENT ROCK

NOTE;
INFERRED BOUNDARIES BETWEEN GEOLOGIC UNITS ARE TRANSITIONAL.

NS=NOT SAMPLED



4X VERTICAL EXAGGERATION

GRAPHIC SCALE

60 0 30 60 120

(IN FEET)

1 inch = 60 ft.

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DETREX FACILITY
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CHARLOTTE, NORTH CAROLINA

GEOLOGICAL CROSS SECTION B-B' WITH ANALYTICAL RESULTS

Drawn By CF
Checked By BB
Scale 1"=60'
Date 10/13/15

Job No. 03130430
Sheet No. 7

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - CROSS SECTIONS-GW ASSESSMENT-20151009.DWG 11/2/2015 4:03 PM FAY, CHRISTOPHER 1:1

LEGEND

OUTER WELL CASING INTERVAL

WELL SCREEN INTERVAL

INNER WELL CASING INTERVAL

(2.8) PCE CONCENTRATION

[2.8] TCE CONCENTRATION

{2.8} Cis 1,2 DCE CONCENTRATION

/2.8/ 1,4 DIOXANE CONCENTRATION

\2.8\ 1,1 DCE CONCENTRATION

SHALLOW GROUNDWATER TABLE

DEEPER GROUNDWATER TABLE

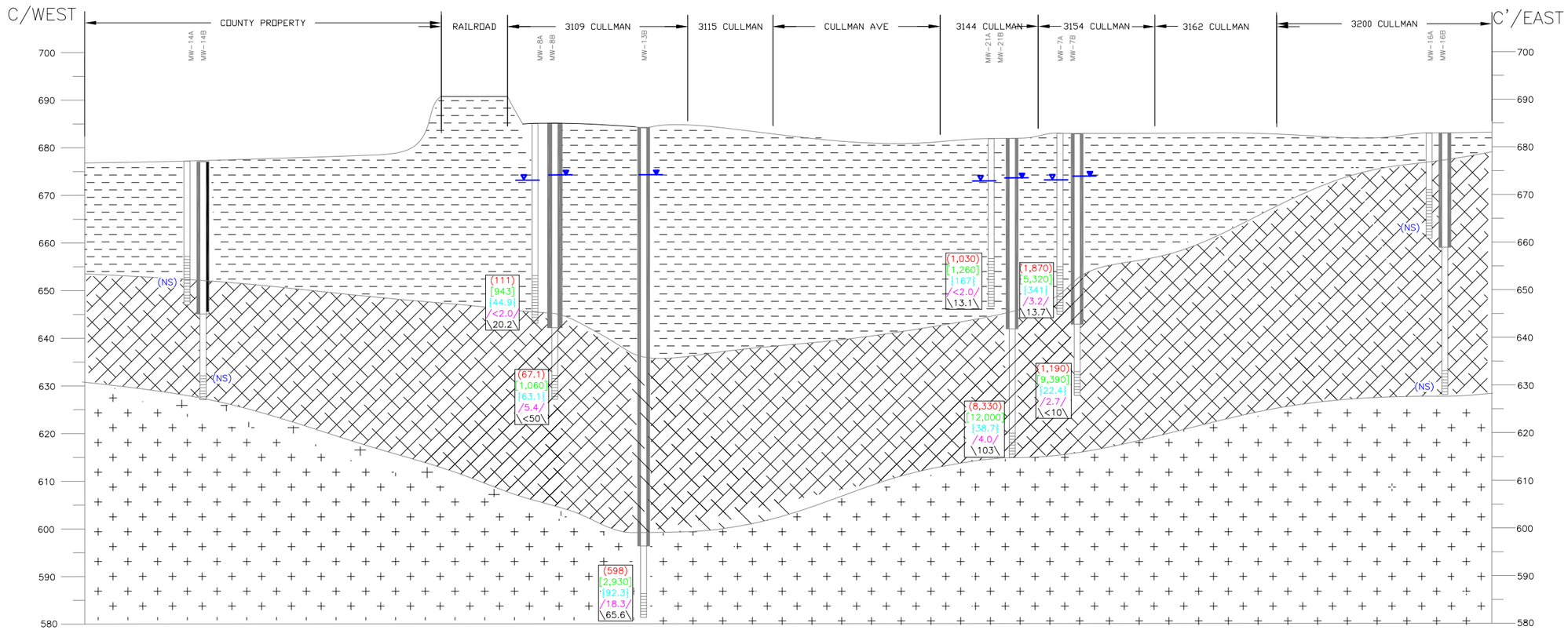
RESIDUAL SOIL/SAPROLITE

PARTIALLY WEATHERED BEDROCK

COMPETENT ROCK

NOTE;
INFERRED BOUNDARIES BETWEEN GEOLOGIC UNITS ARE TRANLATIONAL.

NS =NOT SAMPLED



4X VERTICAL EXAGGERATION

GRAPHIC SCALE

100 0 50 100 100

(IN FEET)

1 inch = 100 ft.

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DETREX FACILITY
3114 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

GEOLOGICAL CROSS SECTION C–C' WITH ANALYTICAL RESULTS

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/13/15

Job No. 03130430
Sheet No. 8

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - CROSS SECTIONS-GW ASSESSMENT-20151009.DWG 11/3/2015 9:39 AM FAY, CHRISTOPHER 1:1

LEGEND

OUTER WELL CASING INTERVAL

WELL SCREEN INTERVAL

INNER WELL CASING INTERVAL

(2.8) PCE CONCENTRATION

[2.8] TCE CONCENTRATION

{2.8} Cis 1,2 DCE CONCENTRATION

/2.8/ 1,4 DIOXANE CONCENTRATION

\2.8\ 1,1 DCE CONCENTRATION

SHALLOW GROUNDWATER TABLE

DEEPER GROUNDWATER TABLE

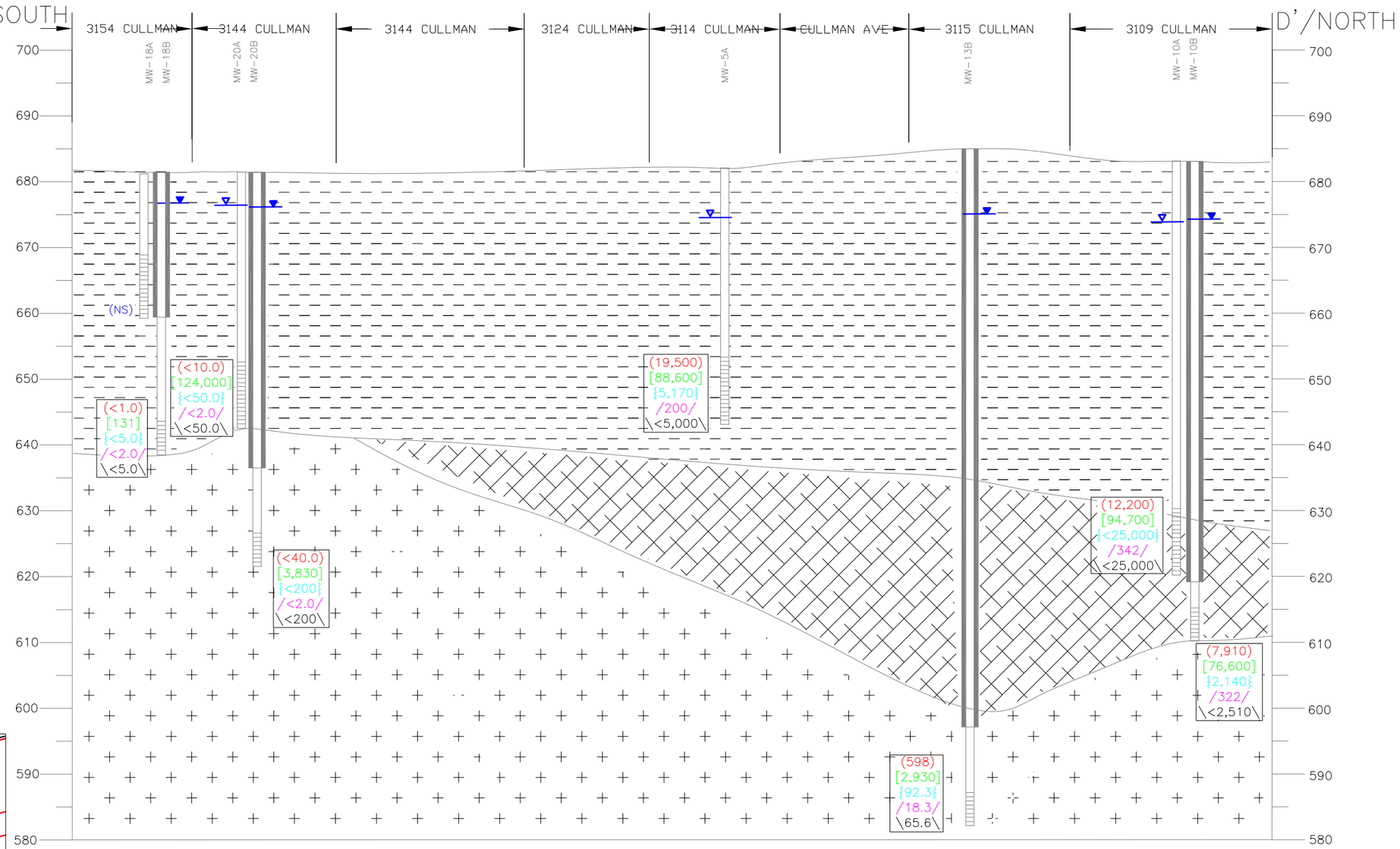
RESIDUAL SOIL/SAPROLITE

PARTIALLY WEATHERED BEDROCK

COMPETENT ROCK

NOTE;
INFERRED BOUNDARIES BETWEEN GEOLOGIC UNITS ARE TRANLATIONAL.

NS=NOT SAMPLED



4X VERTICAL EXAGGERATION

GRAPHIC SCALE

70 0 35 70 140

(IN FEET)

1 inch = 70 ft.

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DETREX FACILITY
3114 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

GEOLOGICAL CROSS SECTION D-D' WITH ANALYTICAL RESULTS

Drawn By CF
Checked By BB
Scale 1"=70'
Date 10/13/15

Job No. 03130430
Sheet No. 9

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - CROSS SECTIONS-GW ASSESSMENT-20151009.DWG 11/2/2015 4:06 PM FAY, CHRISTOPHER 1:1

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No.	Description	Date	By

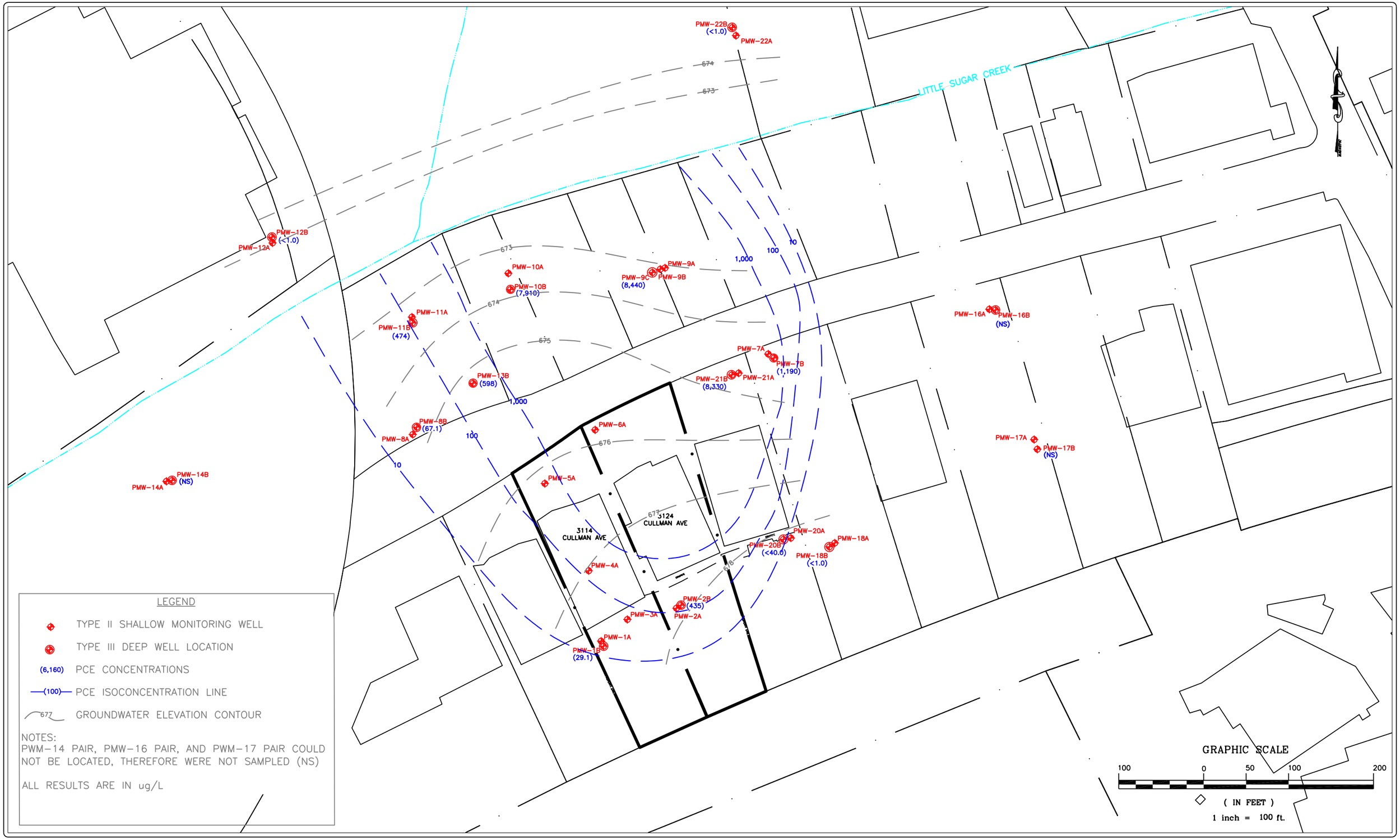
TREX PROPERTIES CHARLOTTE, NC
3114 AND 3124 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

PCE IN SHALLOW GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No. 03130430
Sheet No. 10

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 9:04 AM FAY, CHRISTOPHER 1:1



LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (6,160) PCE CONCENTRATIONS
- —(100)— PCE ISOCONCENTRATION LINE
- 677 GROUNDWATER ELEVATION CONTOUR

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT SAMPLED (NS)

ALL RESULTS ARE IN ug/L

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TREX PROPERTIES CHARLOTTE, NC
3114 AND 3124 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

PCE IN DEEPER GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No.	03130430
Sheet No.	11

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 9:16 AM FAY, CHRISTOPHER 1:1

LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (6,160) TCE CONCENTRATIONS
- (100) TCE ISOCONCENTRATION LINE
- 677 GROUNDWATER ELEVATION CONTOUR

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT SAMPLED (NS)

PWM-4 CONTAINED INSUFFICIENT AMOUNT OF GROUNDWATER TO SAMPLE

THE WELL CASING FOR PMW-18A WAS BENT ~5.5 FEET BELOW TOC AND COULD NOT BE SAMPLED

ALL RESULTS ARE IN ug/L

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TREX PROPERTIES CHARLOTTE, NC
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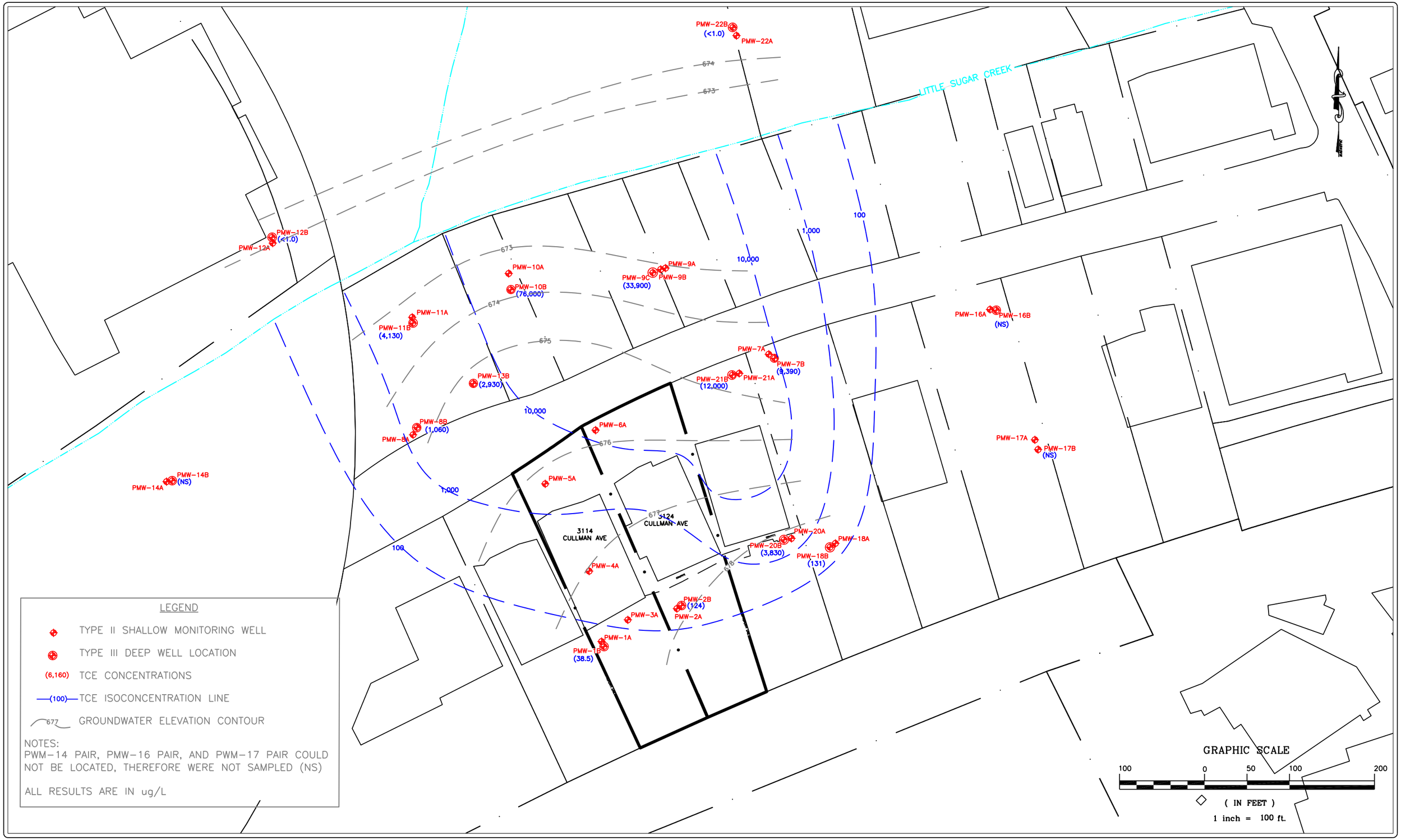
CHARLOTTE, NORTH CAROLINA

TCE IN SHALLOW GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No. 03130430
Sheet No. 12

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 9:20 AM FAY, CHRISTOPHER 1:1



LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (6,160) TCE CONCENTRATIONS
- (100) TCE ISOCONCENTRATION LINE
- 677 GROUNDWATER ELEVATION CONTOUR

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT SAMPLED (NS)

ALL RESULTS ARE IN ug/L

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TREX PROPERTIES CHARLOTTE, NC
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CHARLOTTE, NORTH CAROLINA

TCE IN DEEPER GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No. 03130430
Sheet No. 13

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 9:48 AM FAY, CHRISTOPHER 1:1

LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (6,160) 1,2 cis DCE CONCENTRATIONS
- —(100)— 1,2 cis DCE ISOCONCENTRATION LINE
- 677 GROUNDWATER ELEVATION CONTOUR

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT SAMPLED (NS)

PWM-4 CONTAINED INSUFFICIENT AMOUNT OF GROUNDWATER TO SAMPLE

THE WELL CASING FOR PMW-18A WAS BENT ~5.5 FEET BELOW TOC AND COULD NOT BE SAMPLED

ALL RESULTS ARE IN ug/L

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TREX PROPERTIES CHARLOTTE, NC
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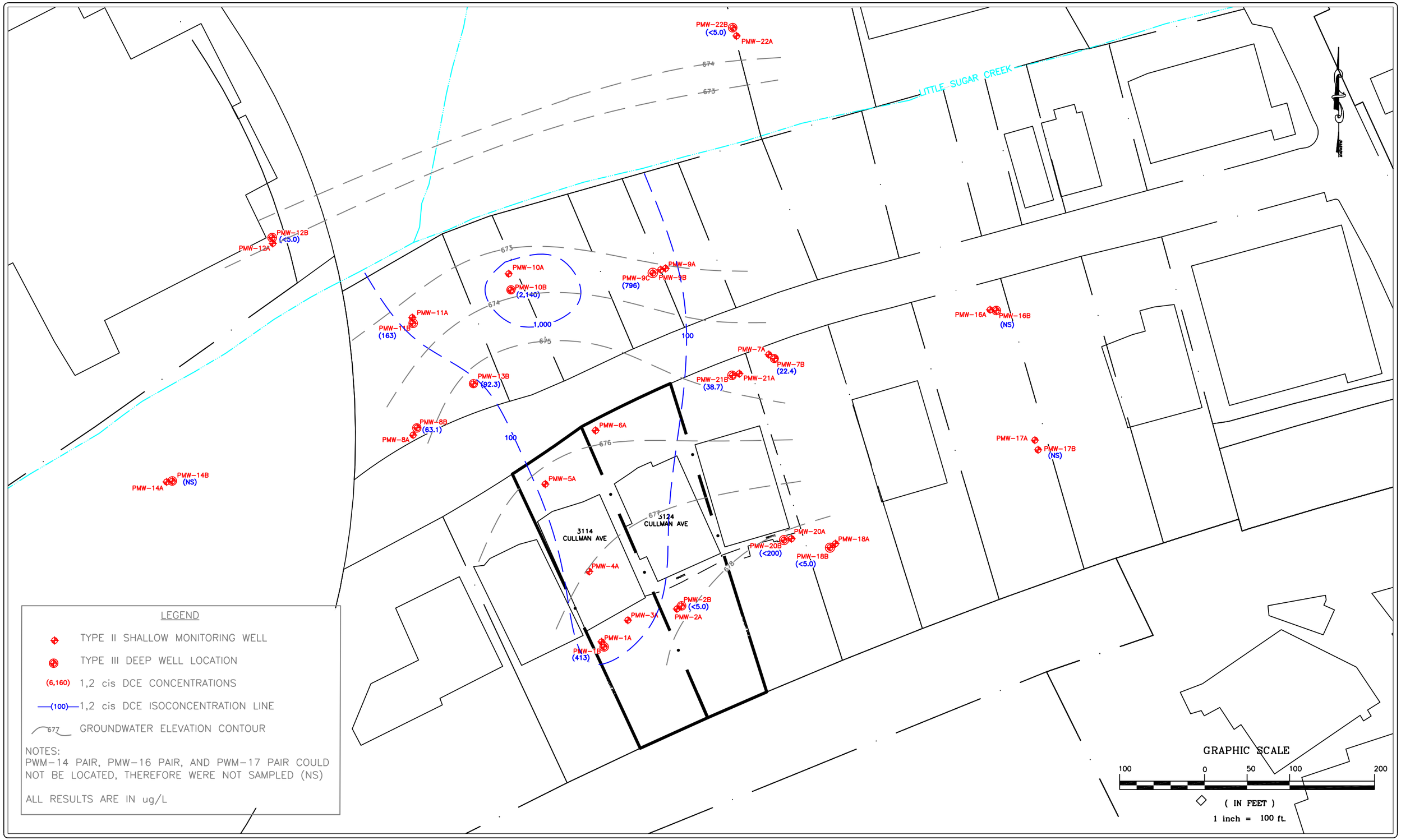
CIS 1,2 DCE IN SHALLOW GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No. 03130430
Sheet No. 14

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 9:50 AM FAY, CHRISTOPHER 1:1



LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (6,160) 1,2 cis DCE CONCENTRATIONS
- —(100)— 1,2 cis DCE ISOCONCENTRATION LINE
- 677 GROUNDWATER ELEVATION CONTOUR

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT SAMPLED (NS)

ALL RESULTS ARE IN ug/L

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TREX PROPERTIES CHARLOTTE, NC
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CHARLOTTE, NORTH CAROLINA

CIS 1,2 DCE IN DEEPER GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No. 03130430
Sheet No. 15

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 9:55 AM FAY, CHRISTOPHER 1:1

LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (6,160) 1,1 DCE CONCENTRATIONS
- (100) 1,1 DCE ISOCONCENTRATION LINE
- 677 GROUNDWATER ELEVATION CONTOUR

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT SAMPLED (NS)

PWM-4 CONTAINED INSUFFICIENT AMOUNT OF GROUNDWATER TO SAMPLE

THE WELL CASING FOR PMW-18A WAS BENT ~5.5 FEET BELOW TOC AND COULD NOT BE SAMPLED

ALL RESULTS ARE IN ug/L

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TREX PROPERTIES CHARLOTTE, NC
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CHARLOTTE, NORTH CAROLINA

1,1 DCE IN SHALLOW GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No.	03130430
Sheet No.	16

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 10:00 AM FAY, CHRISTOPHER 1:1

LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (6,160) 1,1 DCE CONCENTRATIONS
- —(100)— 1,1 DCE ISOCONCENTRATION LINE
- 677 GROUNDWATER ELEVATION CONTOUR

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT SAMPLED (NS)

ALL RESULTS ARE IN ug/L

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No.	Description	Date	By

TREX PROPERTIES CHARLOTTE, NC
3114 AND 3124 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

1,1 DCE IN DEEPER GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No. 03130430
Sheet No. 17

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 10:05 AM FAY, CHRISTOPHER 1:1

LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (6,160) 1,4 DIOXANE CONCENTRATIONS
- (100) 1,4 DIOXANE ISOCONCENTRATION LINE
- 677 GROUNDWATER ELEVATION CONTOUR

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT SAMPLED (NS)

PWM-4 CONTAINED INSUFFICIENT AMOUNT OF GROUNDWATER TO SAMPLE

THE WELL CASING FOR PMW-18A WAS BENT ~5.5 FEET BELOW TOC AND COULD NOT BE SAMPLED

ALL RESULTS ARE IN ug/L

WITHERS & RAVENEL
ENGINEERS | PLANNERS | SURVEYORS
111 MacKenan Drive Cary, North Carolina 27511 tel: 919-469-3340 www.withersravenel.com License No. C-0832

Revisions			
No.	Description	Date	By

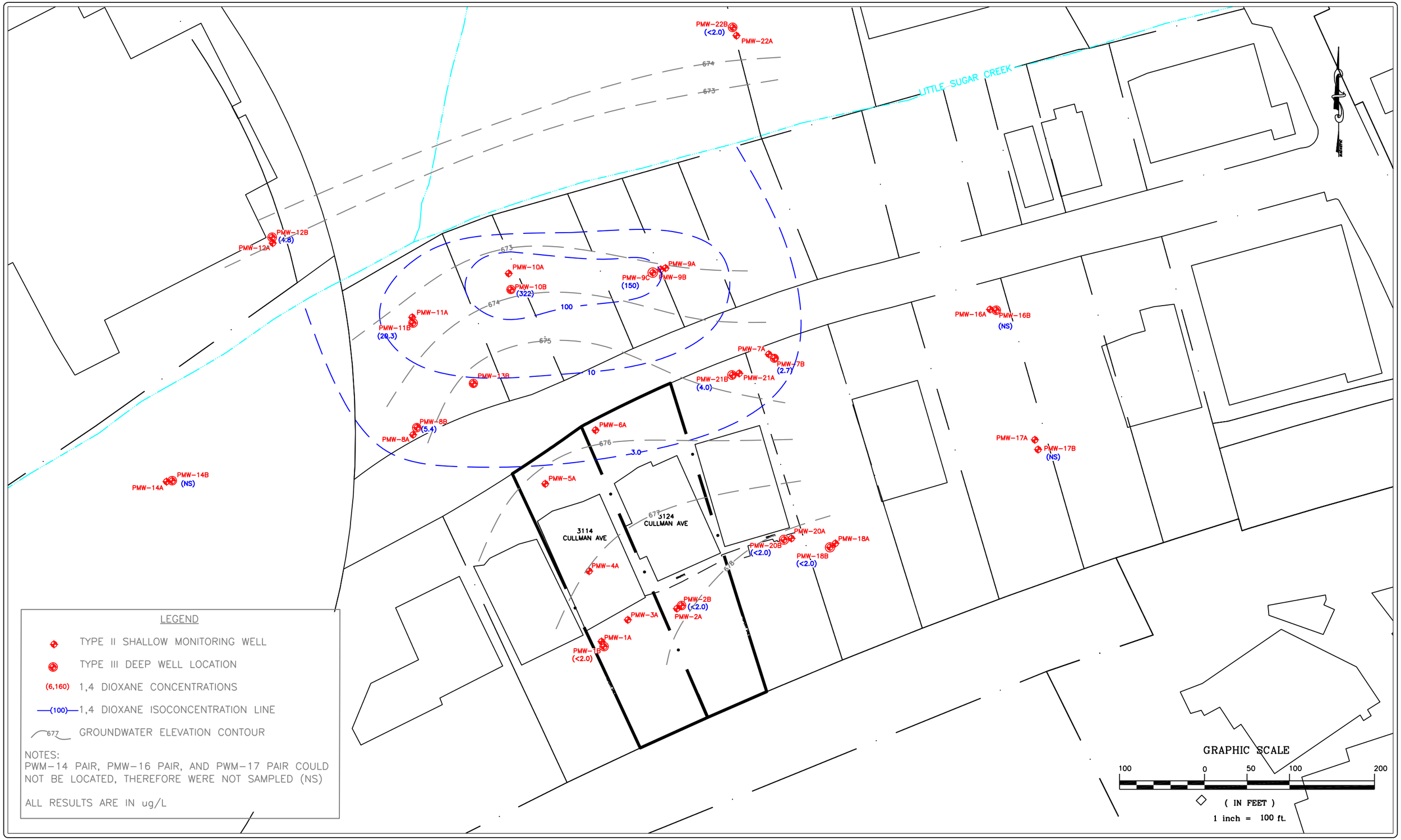
TREX PROPERTIES CHARLOTTE, NC
3114 AND 3124 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

1,4 DIOXANE IN SHALLOW GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No. 03130430
Sheet No. 18

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 9:56 AM FAY, CHRISTOPHER 1:1



LEGEND

- TYPE II SHALLOW MONITORING WELL
- TYPE III DEEP WELL LOCATION
- (6,160) 1,4 DIOXANE CONCENTRATIONS
- (100) 1,4 DIOXANE ISOCONCENTRATION LINE
- 677 GROUNDWATER ELEVATION CONTOUR

NOTES:
PWM-14 PAIR, PMW-16 PAIR, AND PWM-17 PAIR COULD NOT BE LOCATED, THEREFORE WERE NOT SAMPLED (NS)

ALL RESULTS ARE IN ug/L

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111 MacKenan Drive Cary, North Carolina 27511 tel: 919-469-3340 www.withersravenel.com License No. C-0832

Revisions			
No.	Description	Date	By

TREX PROPERTIES CHARLOTTE, NC
3114 AND 3124 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

1,4 DIOXANE IN DEEPER GROUNDWATER

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	10/8/15

Job No. 03130430
Sheet No. 19

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 11/2/2015 9:57 AM FAY, CHRISTOPHER 1:1

Appendix A

Environmental Data Resources, Inc.

City Directory Abstract

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

Cullman Avenue
3144 Cullman Avenue
Charlotte, NC 28206

Inquiry Number: 4397692.5
August 31, 2015

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1921 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	X	X	X	-
2005	Hill-Donnelly Information Services	X	X	X	-
1999	City Publishing Company Inc.	-	X	X	X
	City Publishing Company Inc.	X	X	X	X
1994	R. L. Polk & Co.	X	X	X	X
1991	R. L. Polk & Co.	-	-	-	-
1989	R. L. Polk & Co.	X	X	X	X
1984	R. L. Polk & Co.	X	X	X	X
1979	Hill's City Directory	X	X	X	X
1975	Hills City Directory	-	-	-	-
1974	Hill's City Directory	X	X	X	X
1969	Hill's City Directory	X	X	X	X
1964	Hill's City Directory	X	X	X	X
1959	Hill's City Directory	-	X	X	X

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1953	Hills City Directory	-	-	-	-
1949	Hills City Directory	-	-	-	-
1944	Hills City Directory	-	-	-	-
1937	Hills City Directory	-	-	-	-
1931	Piedmont Directory Company	-	-	-	-
1925	Commercial Service Co.	-	-	-	-
1921	Commercial Service Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
3100 Cullman Avenue	Client Entered	X
3110 Cullman Avenue	Client Entered	X
3154 Cullman Avenue	Client Entered	X
3114 Cullman Avenue	Client Entered	X
3124 Cullman Avenue	Client Entered	X
3103 Cullman Avenue	Client Entered	X
3123 Cullman Avenue	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

3144 Cullman Avenue
Charlotte, NC 28206

FINDINGS DETAIL

Target Property research detail.

CULLMAN AVE

3144 CULLMAN AVE

Year	Uses	Source	
2008	BICKENBACH	Cole Information Services	
2005	No Current Listing	Hill-Donnelly Information Services	
1994	FLOW FABRICATIONS OVERFLOW	R. L. Polk & Co.	Image pg. A6
1989	Davis Marketing Inc plmb sup	R. L. Polk & Co.	Image pg. A8
1984	Lyf Tym Building Products Co Inc ext alum	R. L. Polk & Co.	Image pg. A10
1979	Lyf Tym Building Products Co Inc ext alum	Hill's City Directory	Image pg. A12
1974	Thompson Distributing Co whol floor covering	Hill's City Directory	Image pg. A14
1969	THOMPSON DISTRIBUTING CO WHOL FLOOR COVERING	Hill's City Directory	Image pg. A16
1964	Nyanza Color & Chem Co dye stuffs	Hill's City Directory	Image pg. A18

Cullman Avenue

3100 Cullman Avenue

Year	Uses	Source	
1999	Trucrewl Inc	City Publishing Company Inc.	Image pg. A3
1994	MULTI GRAPHICS INC OVERFLOW	R. L. Polk & Co.	Image pg. A6
1989	Precisionaire air filter distrs	R. L. Polk & Co.	Image pg. A8
1984	Vacant	R. L. Polk & Co.	Image pg. A10
1979	Quaker Chemical Corp	Hill's City Directory	Image pg. A12
1974	Quaker Chemical Corp	Hill's City Directory	Image pg. A14
1969	QUAKER CHEMICAL CORP	Hill's City Directory	Image pg. A16
1964	3100 02 Quaker Chem Corp	Hill's City Directory	Image pg. A18

3110 Cullman Avenue

Year	Uses	Source	
2005	Leather Trimmings LTD	Hill-Donnelly Information Services	
1999	Leather Trimmings Ltd	City Publishing Company Inc.	Image pg. A3

FINDINGS

Year	Uses	Source	
1994	MULTIGRAPHICS INC screen prntg	R. L. Polk & Co.	Image pg. A6
1989	Fabric Labels Inc label prntrs	R. L. Polk & Co.	Image pg. A8
	Multigraphics Inc screen prntg	R. L. Polk & Co.	Image pg. A8
	Printing Techniques prntrs	R. L. Polk & Co.	Image pg. A8
1984	Potomac Wall Coverings Inc	R. L. Polk & Co.	Image pg. A10
1979	Potomac Wall Coverings Inc mfrs reps	Hill's City Directory	Image pg. A12
1974	Spoon L P Inc mfrs reps	Hill's City Directory	Image pg. A14
1969	COURIER JOURNAL LITHOGRAPHING CO PRNTRS	Hill's City Directory	Image pg. A16
1964	Courier Journal Lithographing Co	Hill's City Directory	Image pg. A18

3154 Cullman Avenue

Year	Uses	Source	
1999	K D Amusement Inc	City Publishing Company Inc.	Image pg. A4
1994	3151 3154 Vacant 2 Businesses	R. L. Polk & Co.	Image pg. A6
1989	Lions Services Inc Whse	R. L. Polk & Co.	Image pg. A8
1964	Snyder Paper Corp distrs	Hill's City Directory	Image pg. A18

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BENARD AVE

3208 BENARD AVE

Year	Uses	Source	
1999	Southeastern Enterprises	City Publishing Company Inc.	Image pg. A5
1994	SOUTHEASTERN ENTERPRISES OVERFLOW	R. L. Polk & Co.	Image pg. A7
1989	Edgeworks Machine Co Inc	R. L. Polk & Co.	Image pg. A9
1984	Vacant	R. L. Polk & Co.	Image pg. A11
1979	Dayco Corp indus rubber	Hill's City Directory	Image pg. A13
1974	Dayco Corp indus rubber	Hill's City Directory	Image pg. A15

3210 BENARD AVE

Year	Uses	Source	
1994	SOUTHEASTERN ENTERPRISES mach shop	R. L. Polk & Co.	Image pg. A7
1989	Southern Enterprises mfr rep	R. L. Polk & Co.	Image pg. A9

3212 BENARD AVE

Year	Uses	Source	
1999	Dickson C C Co Str	City Publishing Company Inc.	Image pg. A5
1994	DICKSON C C CO WHOLESALE HEATING & AIR CONDTG	R. L. Polk & Co.	Image pg. A7
1989	Dickson C C Co Wholesale Heating & Air Condtg	R. L. Polk & Co.	Image pg. A9
1984	Dickson C C Co Wholesale Heating & Air Condtg	R. L. Polk & Co.	Image pg. A11
1979	Vacant	Hill's City Directory	Image pg. A13
1974	Fluid Energy Inc Div Livingston & Haven fluid pwr mfrs	Hill's City Directory	Image pg. A15

3214 BENARD AVE

Year	Uses	Source	
1979	Vacant	Hill's City Directory	Image pg. A13

3218 BENARD AVE

Year	Uses	Source	
1994	SOUTHEASTERN ENTERPRISES OVERFLOW	R. L. Polk & Co.	Image pg. A7

FINDINGS

Year	Uses	Source	
1989	Metal Teck Inc mfrs	R. L. Polk & Co.	Image pg. A9
1984	Metal Tack Inc	R. L. Polk & Co.	Image pg. A11
1979	Fairbanks J G & Assocs electronic sup	Hill's City Directory	Image pg. A13
1974	Interstate Tire & Battery Co Inc	Hill's City Directory	Image pg. A15

3220 BENARD AVE

Year	Uses	Source	
1969	UNDER CONSTN	Hill's City Directory	Image pg. A17

3224 BENARD AVE

Year	Uses	Source	
1999	Industrial Filtration	City Publishing Company Inc.	Image pg. A5
1994	Vacant	R. L. Polk & Co.	Image pg. A7
1989	Vacant	R. L. Polk & Co.	Image pg. A9
1984	Dana Corp Spicer Clutch Division truck parts mfrs	R. L. Polk & Co.	Image pg. A11
1979	Pan American Aluminum Corp	Hill's City Directory	Image pg. A13
1974	Pan American Aluminum Corp br	Hill's City Directory	Image pg. A15
1969	PAN AMERICAN ALUMINUM CORP res	Hill's City Directory	Image pg. A17

BENARD AVE FL

3208 BENARD AVE FL

Year	Uses	Source
2005	Southeastern Enterprises	Hill-Donnelly Information Services

3212 BENARD AVE FL

Year	Uses	Source
2005	No Current Listing	Hill-Donnelly Information Services

3224 BENARD AVE FL

Year	Uses	Source
2005	Industrial Filtration Co	Hill-Donnelly Information Services

CULLMAN AVE

3100 CULLMAN AVE

Year	Uses	Source
2013	HOGAN COMPANY THE	Cole Information Services
	HOGAN COMPANY THE	Cole Information Services
2008	KODGEE LLC	Cole Information Services

FINDINGS

Year	Uses	Source	
2008	KODGEE LLC	Cole Information Services	
1999	Trucrewl Inc	City Publishing Company Inc.	Image pg. A1
1994	MULTI GRAPHICS INC OVERFLOW	R. L. Polk & Co.	Image pg. A6
1989	Precisionaire air filter distrs	R. L. Polk & Co.	Image pg. A8
1984	Vacant	R. L. Polk & Co.	Image pg. A10
1979	Quaker Chemical Corp	Hill's City Directory	Image pg. A12
1974	Quaker Chemical Corp	Hill's City Directory	Image pg. A14
1969	QUAKER CHEMICAL CORP	Hill's City Directory	Image pg. A16
1964	3100 02 Quaker Chem Corp	Hill's City Directory	Image pg. A18

3102 CULLMAN AVE

Year	Uses	Source	
1994	MULTI GRAPHICS INC OVERFLOW	R. L. Polk & Co.	Image pg. A6
1989	Precisionaire Overflow	R. L. Polk & Co.	Image pg. A8
1984	Vacant	R. L. Polk & Co.	Image pg. A10
1964	3100 02 Quaker Chem Corp	Hill's City Directory	Image pg. A18

3103 CULLMAN AVE

Year	Uses	Source	
2008	MINDY JACOBS DESIGNS	Cole Information Services	
	FAMILYWANTED INC	Cole Information Services	
	MINDY JACOBS DESIGNS	Cole Information Services	
	FAMILYWANTED INC	Cole Information Services	
2005	Isokern Of The Carolinas	Hill-Donnelly Information Services	
1999	Kornivskiy Vigaliy	City Publishing Company Inc.	Image pg. A1
1994	MOSTLY COTTON FCTY OUTLET OVERFLOW clo mfr	R. L. Polk & Co.	Image pg. A6
1989	Vacant	R. L. Polk & Co.	Image pg. A8
1984	Multi Flock Specialist Co lock mfr	R. L. Polk & Co.	Image pg. A10
1979	Aqua Pets Inc whol pet sups	Hill's City Directory	Image pg. A12
1974	Livingston & Haven Inc hydraulic equip	Hill's City Directory	Image pg. A14
1969	LIVINGSTON & HAVEN INC HYDRAULIC EQUIP	Hill's City Directory	Image pg. A16
1964	3103 05 Dietzen Eug Co arch & eng sups	Hill's City Directory	Image pg. A18

3105 CULLMAN AVE

Year	Uses	Source	
1964	3103 05 Dietzen Eug Co arch & eng sups	Hill's City Directory	Image pg. A18

FINDINGS

3107 CULLMAN AVE

Year	Uses	Source	
1964	Electro Tech Inc	Hill's City Directory	Image pg. A18

3109 CULLMAN AVE

Year	Uses	Source	
2005	No Current Listing	Hill-Donnelly Information Services	
1994	MOSTLY COTTON	R. L. Polk & Co.	Image pg. A6
1989	Office Supply Service	R. L. Polk & Co.	Image pg. A8
1984	Indoor Billboard Corporation The	R. L. Polk & Co.	Image pg. A10
1964	Brownell Inc elec insulating	Hill's City Directory	Image pg. A18

3110 CULLMAN AVE

Year	Uses	Source	
2013	LEATHER TRIMMINGS	Cole Information Services	
	LEATHER TRIMMINGS	Cole Information Services	
2008	LEATHER TRIMMINGS LTD	Cole Information Services	
	LEATHER TRIMMINGS LTD	Cole Information Services	
2005	Leather Trimmings LTD	Hill-Donnelly Information Services	
1999	Leather Trimmings Ltd	City Publishing Company Inc.	Image pg. A1
1994	MULTIGRAPHICS INC screen prntg	R. L. Polk & Co.	Image pg. A6
1989	Multigraphics Inc screen prntg	R. L. Polk & Co.	Image pg. A8
	Fabric Labels Inc label prntrs	R. L. Polk & Co.	Image pg. A8
	Printing Techniques prntrs	R. L. Polk & Co.	Image pg. A8
1984	Potomac Wall Coverings Inc	R. L. Polk & Co.	Image pg. A10
1979	Potomac Wall Coverings Inc mfrs reps	Hill's City Directory	Image pg. A12
1974	Spoon L P Inc mfrs reps	Hill's City Directory	Image pg. A14
1969	COURIER JOURNAL LITHOGRAPHING CO PRNTRS	Hill's City Directory	Image pg. A16
1964	Courier Journal Lithographing Co	Hill's City Directory	Image pg. A18

3114 CULLMAN AVE

Year	Uses	Source
2013	PARTS CLEANING TECHNOLOGIES LLC	Cole Information Services
	PARTS CLEANING TECHNOLOGIES LLC	Cole Information Services
2008	PARTS CLEANING TECHNOLOGIES	Cole Information Services
	DETREX CORP	Cole Information Services
	PARTS CLEANING TECHNOLOGIES	Cole Information Services
	DETREX CORP	Cole Information Services

FINDINGS

Year	Uses	Source	
2005	Parts Cleaning Technologies	Hill-Donnelly Information Services	
1999	Detrex Corp	City Publishing Company Inc.	Image pg. A2
1994	DETREX solvents & enviro serv	R. L. Polk & Co.	Image pg. A6
	DETREX OVERFLOW	R. L. Polk & Co.	Image pg. A6
1989	Gold Shield Div Detrex Chem chem mfrs	R. L. Polk & Co.	Image pg. A8
1984	Gold Shield Div Detrex Chem chem mfrs	R. L. Polk & Co.	Image pg. A10
1979	Gold Shield Div Detrex Chem chem mfrs	Hill's City Directory	Image pg. A12
1974	Gold Shield Div Detrex Chem	Hill's City Directory	Image pg. A14
1964	Vacant	Hill's City Directory	Image pg. A18

3115 CULLMAN AVE

Year	Uses	Source	
2008	L S WILLIAMS ELECTRIC CO INC	Cole Information Services	
2005	L S Williams Electric Co	Hill-Donnelly Information Services	
1999	Williams L S Electric Co Inc	City Publishing Company Inc.	Image pg. A2
1994	Vacant	R. L. Polk & Co.	Image pg. A6
1989	Vacant	R. L. Polk & Co.	Image pg. A8
1984	Stahl Rider Inc air condtng equip	R. L. Polk & Co.	Image pg. A10
1979	Stahl Rider Inc air condtng equip	Hill's City Directory	Image pg. A12
1974	Mega Mechanical Contractors Inc	Hill's City Directory	Image pg. A14
1969	AIR INC INDUS AIR COMPRESSORS	Hill's City Directory	Image pg. A16
1964	Industrial Mechanical Contracting Corp	Hill's City Directory	Image pg. A18

3116 CULLMAN AVE

Year	Uses	Source	
1989	Detrex Overflow	R. L. Polk & Co.	Image pg. A8
1984	Detrex Overflow	R. L. Polk & Co.	Image pg. A10
1969	MC CREARY TIRE & RUBBER CO BR	Hill's City Directory	Image pg. A16

3123 CULLMAN AVE

Year	Uses	Source	
2008	CS SPORTSWEAR	Cole Information Services	
	BIG TOE STUDIO	Cole Information Services	
	CS SPORTSWEAR	Cole Information Services	
	BIG TOE STUDIO	Cole Information Services	
2005	Queen City Staircase	Hill-Donnelly Information Services	
1994	MORITZ INDUSTRIES sportswear distr	R. L. Polk & Co.	Image pg. A6
1989	Permaseal Of Charlotte adhesives	R. L. Polk & Co.	Image pg. A8
1984	Dixie Southern Mop Co	R. L. Polk & Co.	Image pg. A10

FINDINGS

3124 CULLMAN AVE

Year	Uses	Source	
1989	United Marines Lines Inc freight lines	R. L. Polk & Co.	Image pg. A8
1984	Mangum Manufacturing auto parts	R. L. Polk & Co.	Image pg. A10
1979	Mangum Manufacturing auto parts	Hill's City Directory	Image pg. A12
1974	Piedmont Floor Covering Whse	Hill's City Directory	Image pg. A14
1969	MC CREARY TIRE & RUBBER CO WHSE	Hill's City Directory	Image pg. A16
1964	3124 26 Snyder Paper Corp whse	Hill's City Directory	Image pg. A18

3125 CULLMAN AVE

Year	Uses	Source	
2005	Abe Mor Inc	Hill-Donnelly Information Services	
1999	Abe Mor Inc	City Publishing Company Inc.	Image pg. A2
1994	ABE MOR INC cin chem	R. L. Polk & Co.	Image pg. A6
1989	Abe Mor Inc cln chem	R. L. Polk & Co.	Image pg. A8
1984	Abe Mor Inc cln chem	R. L. Polk & Co.	Image pg. A10
	East Coast Piping Co	R. L. Polk & Co.	Image pg. A10
1979	Maintenance Counsultants Sales & Service Inc jan sup & serv	Hill's City Directory	Image pg. A12
	a East Coast Piping Co	Hill's City Directory	Image pg. A12
1974	Lyf Tym Building Products Co	Hill's City Directory	Image pg. A14
1969	LYF TYM BUILDING PRODUCTS CO	Hill's City Directory	Image pg. A16
1964	Best Brands of Am nfrs agts	Hill's City Directory	Image pg. A18

3126 CULLMAN AVE

Year	Uses	Source	
1964	3124 26 Snyder Paper Corp whse	Hill's City Directory	Image pg. A18

3139 CULLMAN AVE

Year	Uses	Source	
2005	Greater Love Baptist Church	Hill-Donnelly Information Services	
1984	Vacant	R. L. Polk & Co.	Image pg. A10
1979	Vacant	Hill's City Directory	Image pg. A12
1974	Southern Salvage Warehouse	Hill's City Directory	Image pg. A14
1969	SOUTHERN SALVAGE WAREHOUSE	Hill's City Directory	Image pg. A16
1964	Thomas Transfer & Stge Co moving vans	Hill's City Directory	Image pg. A18
	Able Moving & Storage	Hill's City Directory	Image pg. A18

FINDINGS

3141 CULLMAN AVE

Year	Uses	Source	
2005	RDS Electrical Contracting	Hill-Donnelly Information Services	
1994	Vacant	R. L. Polk & Co.	Image pg. A6
1989	Vacant	R. L. Polk & Co.	Image pg. A8
1984	Fisher Machinery Co	R. L. Polk & Co.	Image pg. A10
1979	Sav A Stop	Hill's City Directory	Image pg. A12
1974	Sav A Stop Inc	Hill's City Directory	Image pg. A14
1969	INTERSTATE TILE MARBLE & TERRAZZO INC CONTRS	Hill's City Directory	Image pg. A16
1964	Interstate Tile & Marble contrs	Hill's City Directory	Image pg. A18
1959	Silicon Battery Co whse	Hill's City Directory	Image pg. A19

3143 CULLMAN AVE

Year	Uses	Source	
2005	Off Tryon Theatre Co Inc	Hill-Donnelly Information Services	
1999	Gospel House Of Jesus Christ The	City Publishing Company Inc.	Image pg. A2
1994	NORKETT STORE FIXTURE	R. L. Polk & Co.	Image pg. A6
1989	Dover Elevator Co	R. L. Polk & Co.	Image pg. A8
1984	Dover Elevator Co	R. L. Polk & Co.	Image pg. A10
1979	Dover Elevator Co ser	Hill's City Directory	Image pg. A12
1974	E L Trol Inc electronic equip mfrs	Hill's City Directory	Image pg. A14
1959	Trophy Brand Nut Co Div of Dayton Nut Products Co	Hill's City Directory	Image pg. A19

3145 CULLMAN AVE

Year	Uses	Source	
1969	VACANT	Hill's City Directory	Image pg. A16
1964	Armstrong Contracting & Sup Corp br ofc insulators	Hill's City Directory	Image pg. A18
1959	3145 49 Vacant	Hill's City Directory	Image pg. A19

3146 CULLMAN AVE

Year	Uses	Source	
2005	h Long Ronn Pstr v	Hill-Donnelly Information Services	
1994	FLOW FABRICATIONS OVERFLOW	R. L. Polk & Co.	Image pg. A6
1989	Davis Marketing Inc Overflow	R. L. Polk & Co.	Image pg. A8

3147 CULLMAN AVE

Year	Uses	Source	
1994	CAROLINA DIESEL SERVICE	R. L. Polk & Co.	Image pg. A6
1989	Carolina Diesel Service	R. L. Polk & Co.	Image pg. A8

FINDINGS

Year	Uses	Source	
1984	Authorized Diesel Service	R. L. Polk & Co.	Image pg. A10
1979	Authorized Diesel Service	Hill's City Directory	Image pg. A12
1969	CHEMICAL PRODUCTS CORP OF N C	Hill's City Directory	Image pg. A16
	FABRICOLOR CHEMICAL CO	Hill's City Directory	Image pg. A16
	SURPASS CHEMICAL CO INC	Hill's City Directory	Image pg. A16
1964	3147 51 Pfister Sou inc dye stuff & chem sls	Hill's City Directory	Image pg. A18

3149 CULLMAN AVE

Year	Uses	Source	
2005	No Current Listing	Hill-Donnelly Information Services	
1959	3145 49 Vacant	Hill's City Directory	Image pg. A19

3151 CULLMAN AVE

Year	Uses	Source	
2008	UNITED STANDARD OF CHARLOTT	Cole Information Services	
	SOUTHLAND ELECTRICAL MANAGEMENT INC	Cole Information Services	
2005	A Coastal Mail Svc 1 5s	Hill-Donnelly Information Services	
	Southland Electrical Mgmt Inc	Hill-Donnelly Information Services	
1999	United Standard Of Charlotte Inc	City Publishing Company Inc.	Image pg. A2
	Southland Electrical Management Inc	City Publishing Company Inc.	Image pg. A2
	Crystal Pure Water Co	City Publishing Company Inc.	Image pg. A2
1994	3151 3154 Vacant 2 Businesses	R. L. Polk & Co.	Image pg. A6
1989	Jaeger Inc wldg sups	R. L. Polk & Co.	Image pg. A8
1984	Jaeger Inc wldg sups	R. L. Polk & Co.	Image pg. A10
1979	Jaeger Inc wldg sup	Hill's City Directory	Image pg. A12
1974	General Battery Corp indus belts	Hill's City Directory	Image pg. A14
1969	DAYCO INDUS BELTS	Hill's City Directory	Image pg. A16
	WENDT SONIS TOOLS	Hill's City Directory	Image pg. A16
1964	3147 51 Pfister Sou inc dye stuff & chem sls	Hill's City Directory	Image pg. A18
1959	Holland Hosiery Co whol	Hill's City Directory	Image pg. A19

3153 CULLMAN AVE

Year	Uses	Source	
1964	Ideal Printing Inc	Hill's City Directory	Image pg. A18

3154 CULLMAN AVE

Year	Uses	Source	
1999	K D Amusement Inc	City Publishing Company Inc.	Image pg. A2

FINDINGS

Year	Uses	Source	
1994	3151 3154 Vacant 2 Businesses	R. L. Polk & Co.	Image pg. A6
1989	Lions Services Inc Whse	R. L. Polk & Co.	Image pg. A8
1964	Snyder Paper Corp distrs	Hill's City Directory	Image pg. A18

3155 CULLMAN AVE

Year	Uses	Source	
1994	DO ALL CAROLINA OVERFLOW	R. L. Polk & Co.	Image pg. A6
1989	Jaeger Inc Showrm	R. L. Polk & Co.	Image pg. A8
1984	Jaeger Inc Showrm	R. L. Polk & Co.	Image pg. A10
1979	Mangieri Charles E Co mfrs rep	Hill's City Directory	Image pg. A12
1974	Vacant	Hill's City Directory	Image pg. A14
1969	SUPPLY SPECIALTIES INC INDUS SUPS	Hill's City Directory	Image pg. A16

3156 CULLMAN AVE

Year	Uses	Source	
1994	Vacant	R. L. Polk & Co.	Image pg. A6
1989	Lions Serv Overflow	R. L. Polk & Co.	Image pg. A8
1984	Lyf Tym Building Products Whse	R. L. Polk & Co.	Image pg. A10
1979	Lyf Tym Building Products Whse	Hill's City Directory	Image pg. A12
1974	Weco Tire Distributors	Hill's City Directory	Image pg. A14
1969	WECO TIRE DISTRIBUTORS	Hill's City Directory	Image pg. A16

3157 CULLMAN AVE

Year	Uses	Source	
2008	THE CHURCH OF PENTECOSTAL USA INC	Cole Information Services	
2005	Church Of Pentecost 10 o	Hill-Donnelly Information Services	
1994	DO ALL CAROLINA CO mach tools	R. L. Polk & Co.	Image pg. A6
1989	Do All Carolina Co mach tools	R. L. Polk & Co.	Image pg. A8
1984	Do All Carolina Co mach tools	R. L. Polk & Co.	Image pg. A10
1979	Do All Carolina Co mach tools	Hill's City Directory	Image pg. A12
1974	Do All Carolina Co mach tools	Hill's City Directory	Image pg. A14
1969	DO ALL CAROLINA CO MACH TOOLS	Hill's City Directory	Image pg. A16
1964	Do All Caro Co mach tools	Hill's City Directory	Image pg. A18
1959	Do All Care Co mach tools	Hill's City Directory	Image pg. A19

3159 CULLMAN AVE

Year	Uses	Source	
1964	Vacant	Hill's City Directory	Image pg. A18

FINDINGS

3162 CULLMAN AVE

Year	Uses	Source	
2013	FLOW FABRICATION	Cole Information Services	
2008	FLOW FABRICATION & EQUIPMENT LLC	Cole Information Services	
2005	Flow Fabrication	Hill-Donnelly Information Services	
1999	Flow Fabrication	City Publishing Company Inc.	Image pg. A2
1994	FLOW FABRICATION metal fabrication	R. L. Polk & Co.	Image pg. A6
1989	Acme Printing Ink Co stge	R. L. Polk & Co.	Image pg. A8
1984	Barclaysamerican Corp mtge loans	R. L. Polk & Co.	Image pg. A10
1979	American Credit Corp	Hill's City Directory	Image pg. A12
1974	Associated Printing Co	Hill's City Directory	Image pg. A14
1969	ASSOCIATED PRINTING CO	Hill's City Directory	Image pg. A16
1964	Vacant	Hill's City Directory	Image pg. A18
1959	Crucible Steel Co of America	Hill's City Directory	Image pg. A19

3168 CULLMAN AVE

Year	Uses	Source	
1959	Under constn	Hill's City Directory	Image pg. A19

3200 CULLMAN AVE

Year	Uses	Source	
2005	No Current Listing	Hill-Donnelly Information Services	
1999	Inx International Ink	City Publishing Company Inc.	Image pg. A2
1994	INX INTERNATIONAL mfrs	R. L. Polk & Co.	Image pg. A6
1989	Acme Printing Ink Co mfrs	R. L. Polk & Co.	Image pg. A8
1979	Door & Millwork Inc	Hill's City Directory	Image pg. A12
1974	Vacant	Hill's City Directory	Image pg. A14
1969	WORTH CHEMICAL CORP DISTRS CHEM WHOL	Hill's City Directory	Image pg. A16
1964	Orders Mattress Co Inc mfrs	Hill's City Directory	Image pg. A18
	Orders Tile & Distr Co Inc floor covering	Hill's City Directory	Image pg. A18

3201 CULLMAN AVE

Year	Uses	Source	
1994	K D MUSIC INC video games	R. L. Polk & Co.	Image pg. A6
1989	K D Music video games music	R. L. Polk & Co.	Image pg. A8
1984	Chemation Inc contrs	R. L. Polk & Co.	Image pg. A10
1979	Chemation Inc	Hill's City Directory	Image pg. A12
1974	Colorcraft Printing Co Inc	Hill's City Directory	Image pg. A14
1969	COLORCRAFT PRINTING CO INC	Hill's City Directory	Image pg. A16

FINDINGS

Year	Uses	Source	
1964	Kirsch Co whol draperies	Hill's City Directory	Image pg. A18
1959	Kirsch Co whol draperies	Hill's City Directory	Image pg. A19

3203 CULLMAN AVE

Year	Uses	Source	
1959	3203 05 Under constn	Hill's City Directory	Image pg. A19

3205 CULLMAN AVE

Year	Uses	Source	
1959	3203 05 Under constn	Hill's City Directory	Image pg. A19

3209 CULLMAN AVE

Year	Uses	Source	
2005	Portable Tool Svc 1 s	Hill-Donnelly Information Services	
1999	Portable Tool Serv	City Publishing Company Inc.	Image pg. A2
	Portable Tool Serv	City Publishing Company Inc.	Image pg. A2
1994	PORTABLE TOOL SERVICE serv	R. L. Polk & Co.	Image pg. A6
1989	Portable Tool Service mfr & distr	R. L. Polk & Co.	Image pg. A8
1984	Portable Tool Service mfr & distr	R. L. Polk & Co.	Image pg. A10
1979	Portable Tool Service	Hill's City Directory	Image pg. A12
1974	Wilson Color & Chemical	Hill's City Directory	Image pg. A14
1969	YOCAM OIAMOND BATTERY CO BR	Hill's City Directory	Image pg. A16
1964	Welders Engineering Research Co	Hill's City Directory	Image pg. A18

3210 CULLMAN AVE

Year	Uses	Source	
1994	INX INTERNATIONAL OVERFLOW	R. L. Polk & Co.	Image pg. A6
1984	Acme Printing Ink Co mfrs	R. L. Polk & Co.	Image pg. A10
1979	Acme Printing Ink Co mfrs	Hill's City Directory	Image pg. A12
1974	Vacant	Hill's City Directory	Image pg. A14
1969	PETER HAND INC VITAMIN MFRS	Hill's City Directory	Image pg. A16
1964	Peter Hand Foundation vitamin mfrs	Hill's City Directory	Image pg. A18

3211 CULLMAN AVE

Year	Uses	Source	
2008	PORTABLE TOOL SERVICE	Cole Information Services	
1994	CAROLINA AUDIO sas	R. L. Polk & Co.	Image pg. A6
1989	Beatys Bindery Service	R. L. Polk & Co.	Image pg. A8
1984	Beatys Bindery Service	R. L. Polk & Co.	Image pg. A10
1979	Beatys Bindery Service	Hill's City Directory	Image pg. A12

FINDINGS

Year	Uses	Source	
1979	Phillips Offset Service	Hill's City Directory	Image pg. A12
1969	NU SASH OF CAROLINAS WINDOWS & DOORS	Hill's City Directory	Image pg. A16
1964	Vacant	Hill's City Directory	Image pg. A18

3212 CULLMAN AVE

Year	Uses	Source	
1994	ACME PRINTING INK CO OVERFLFOW	R. L. Polk & Co.	Image pg. A6
1989	Acme Printing Inc Overflow	R. L. Polk & Co.	Image pg. A8
1984	Acme Prntg Ink Overflow	R. L. Polk & Co.	Image pg. A10

3214 CULLMAN AVE

Year	Uses	Source	
2008	BEATYS PRINTING & BINDERY	Cole Information Services	
1994	BEATYS BINDERY SERVICE printing & bookbinders	R. L. Polk & Co.	Image pg. A6
1989	Carr M W & Co picture frames whol & mfrs	R. L. Polk & Co.	Image pg. A8
1984	Carr M W & Co picture frames whol & mfrs	R. L. Polk & Co.	Image pg. A10
1979	Carr M W & Co picture frames whol & mfra	Hill's City Directory	Image pg. A12
1974	Carr M W & Co picture frames whol & mfrs	Hill's City Directory	Image pg. A14
1969	M & W DISTRIBUTORS BEER DISTRS	Hill's City Directory	Image pg. A16

3215 CULLMAN AVE

Year	Uses	Source	
1994	Vacant	R. L. Polk & Co.	Image pg. A6
1989	Carolina Sealants & Adhesives Inc	R. L. Polk & Co.	Image pg. A8
1984	Porterfield Enterprises mfg rep	R. L. Polk & Co.	Image pg. A10
	Sama Inc mfr rep	R. L. Polk & Co.	Image pg. A10
1979	Ropegeo wholesale craft	Hill's City Directory	Image pg. A12
1974	Kohnstamm H & Co Inc Indry sups	Hill's City Directory	Image pg. A14
1969	KOHNSTAMM H & CO INC LNDRY SUPS	Hill's City Directory	Image pg. A16
1964	M&W Distrs beer	Hill's City Directory	Image pg. A18

3216 CULLMAN AVE

Year	Uses	Source
2013	BEATYS PRINTING & BINDERY	Cole Information Services
2008	BEATYS	Cole Information Services
2005	Beatys Printing & Bindery	Hill-Donnelly Information Services

FINDINGS

Year	Uses	Source	
1999	Beatys	City Publishing Company Inc.	Image pg. A2
	Beatys Bindery Svc Inc	City Publishing Company Inc.	Image pg. A2
1994	BEATYS BINDERY SERV OVERFLFOW	R. L. Polk & Co.	Image pg. A6
1989	Carr M W And Co Overflow	R. L. Polk & Co.	Image pg. A8
1984	M W Carr & Co Stge	R. L. Polk & Co.	Image pg. A10
1979	Metrolina Contra & Csna Whse	Hill's City Directory	Image pg. A12
	Chimney Sweeps	Hill's City Directory	Image pg. A12
1974	Transmission Supplies mach	Hill's City Directory	Image pg. A14
1969	TRANSMISSION SUPPLIES MACH	Hill's City Directory	Image pg. A16

Cullman Avenue

3103 Cullman Avenue

Year	Uses	Source	
2005	Isokern Of The Carolinas	Hill-Donnelly Information Services	
1999	Kornivskiy Vigaliy	City Publishing Company Inc.	Image pg. A3
1994	MOSTLY COTTON FCTY OUTLET OVERFLOW clo mfr	R. L. Polk & Co.	Image pg. A6
1989	Vacant	R. L. Polk & Co.	Image pg. A8
1984	Multi Flock Specialist Co lock mfr	R. L. Polk & Co.	Image pg. A10
1979	Aqua Pets Inc whol pet sups	Hill's City Directory	Image pg. A12
1974	Livingston & Haven Inc hydraulic equip	Hill's City Directory	Image pg. A14
1969	LIVINGSTON & HAVEN INC HYDRAULIC EQUIP	Hill's City Directory	Image pg. A16
1964	3103 05 Dietzen Eug Co arch & eng sups	Hill's City Directory	Image pg. A18

3114 Cullman Avenue

Year	Uses	Source	
2005	Parts Cleaning Technologies	Hill-Donnelly Information Services	
1999	Detrex Corp	City Publishing Company Inc.	Image pg. A4
1994	DETREX OVERFLOW	R. L. Polk & Co.	Image pg. A6
	DETREX solvents & enviro serv	R. L. Polk & Co.	Image pg. A6
1989	Gold Shield Div Detrex Chem chem mfrs	R. L. Polk & Co.	Image pg. A8
1984	Gold Shield Div Detrex Chem chem mfrs	R. L. Polk & Co.	Image pg. A10
1979	Gold Shield Div Detrex Chem chem mfrs	Hill's City Directory	Image pg. A12
1974	Gold Shield Div Detrex Chem	Hill's City Directory	Image pg. A14
1964	Vacant	Hill's City Directory	Image pg. A18

FINDINGS

3123 Cullman Avenue

Year	***Uses***	***Source***	
2005	Queen City Staircase	Hill-Donnelly Information Services	
1994	MORITZ INDUSTRIES sportswear distr	R. L. Polk & Co.	Image pg. A6
1989	Permaseal Of Charlotte adhesives	R. L. Polk & Co.	Image pg. A8
1984	Dixie Southern Mop Co	R. L. Polk & Co.	Image pg. A10

3124 Cullman Avenue

Year	***Uses***	***Source***	
1989	United Marines Lines Inc freight lines	R. L. Polk & Co.	Image pg. A8
1984	Mangum Manufacturing auto parts	R. L. Polk & Co.	Image pg. A10
1979	Mangum Manufacturing auto parts	Hill's City Directory	Image pg. A12
1974	Piedmont Floor Covering Whse	Hill's City Directory	Image pg. A14
1969	MC CREARY TIRE & RUBBER CO WHSE	Hill's City Directory	Image pg. A16
1964	3124 26 Snyder Paper Corp whse	Hill's City Directory	Image pg. A18

1961 City of Charlotte Directory

ELAM electric company, inc.
ELECTRICAL CONTRACTORS
815 West Morehead — RESIDENTIAL — COMMERCIAL — Dial 334-7269

CRISPIN AV—Contd
143 Sams Ralph A ⓒ △ EX 9-9551
144 Keeter Allen ⓒ △ EX 2-1747
145 Krimminger Henry L ⓒ
147 Norris Lester J ⓒ △ EX 9-1878

18
CROCKETT—From 912 E 1st southwest (Zone 6)
507 Vacant
508 Jones Zettie
509 Dunlap Lewis
511 Ashford Eliz Mrs
513 Tyson Rosie Mrs
514 Lightsey Arth △ FR 5-6693
515 Barber Janie M Mrs
516 Reid Homsie
517 Mills Henry
518 Vacant
519 Williams Lizzie B Mrs
520 Vacant
522 Franks Roosevelt
523 Williams Andy
S Independence blvd intersects
604 Vacant
610 Benton Thos H △ ED 2-3908
611 Black Eliz
613 Thompson Hattie
614 Wallace Betsy W Mrs ⓒ △ ED 4-0689
615 Glen Arth △ ED 2-5664
616 Houston Annie K Mrs △ ED 3-2073
617 Spears Arth
Brown begins
618 Vacant
621 Steele Nathl ⓒ
622 Cureton Lester W △ ED 4-4317
623 Wallace Leonard ⓒ
624 Vacant
629 Henry Jos
630 Glamour Girl Beauty Salon
630a McKnight Robt
631 Perry Colell
Boundary intersects

53
CROMERS (Hoskins)—From 3900 Rozzells Ferry rd southwest, 1 northwest of S Linwold av (Zone 8)
SAL crossee
103 Smith Henry S ⓒ △ EX 9-5268
105 Smith Beulah ⓒ △ EX 9-9178
107 Snider Emmett E ⓒ △ EX 9-9913
Graig Dealia S Mrs △ EX 9-9913
111 Tarte Bertha Mrs ⓒ 392-5983
115 Gardner Wm Y ⓒ △ EX 9-9922
119 Mullis Roy B ⓒ
120 Farmer Wm J ⓒ △ EX 9-5065
124 Tarte Jas D ⓒ △ EX 9-1246
128 Love Fred R Rev ⓒ △ EX 9-3370
Gossett intersects
132 Chadwick Meth Ch
204 Parker Milton △ EX 9-3466
206 Frasheur Mermon W ⓒ △ EX 9-9096
208 Ray Nathan D
210 Vacant
212 Hathcock John H ⓒ △ EX 9-6148
214 Morris Oliver
216 Bittle Bradley A ⓒ △ EX 9-6932
218 Westbrook Edw
220 Sherrill Jas R
222 Hasty Danl ⓒ
P&NRy crosses

59
CROMWELL CT—From 3417 Hampshire pl east, 1 south of Anderson
1600 Smith J Herman ⓒ △ FR 7-7663
1601 Mullinax Wm M ⓒ △ FR 6-4310
1610 Gilmore Cenie A Mrs ⓒ △ ED 4-2373
1611 McMahon Sam H ⓒ △ ED 3-1923
1616 Harris Roy S △ ED 2-5824
1617 Coe Wallace O ⓒ △ ED 3-1454
1622 Reimanis Arends ⓒ △ FR 6-1316
Reimanis Dyldra E Mrs mus tchr
1623 Reed Claude W ⓒ △ ED 3-2739
1628 Young Donald C ⓒ △ FR 7-6016
1629 Blackmon Julian D ⓒ △ ED 2-6710
1633 Cirulis Wm V ⓒ △ FR 6-7020

CROSBY ALLEY (Changed to Cedar Alley)

71
CROSBY RD—From 517 Sharon-Amity rd southeast, 1 northwest of Providence rd (Zone 7)
2910 L & H Realty Co △ EM 6-3887
Modern Construction Co Inc △ EM 6-3887
Surf Side Pools △ EM 6-3887
2911 Gray Robt J jr △ EM 6-5296
Glover Fred W ⓒ phys △ EM 6-5727
2914 Jones Wm 1 ⓒ phys △ EM 6-0223
2918 Johnston Chas M ⓒ dentist △ EM 6-4724
2917 Gibba John W ⓒ △ EM 8-4859
2920 Carpenter Geo F ⓒ △ EM 6-1651

86
CROSS (Chatham Estates)—From N Clement east, 1 north of Kensington dr (Zone 5)

42
CROYDON RD (Myers Park)—From 2300 Roewell av west and south, 1 east of Westfield rd (Zone 7)
2200 **Apartments**
9 Dry Pete L △ ED 4-6533
10 Duncan Fred
11 Fisher Betty J Mrs △ FR 6-5912
12 Grey Georgia S Mrs △ ED 2-1525
2216 **Apartments**
5 Morris Leona M △ FR 6-1093
6 Flowers Mayhell L △ ED 4-7856
7 Trotter Hallie E △ FR 6-8519
8 Reid A Graham 375-4729
2219 **Apartments**
7 Outen Vera B Mrs △ ED 2-5358
8 Porter John G mfrs agt △ FR 5-2879
9 Vacant
10 Sharpe Thos W △ ED 4-3112
2221 **Apartments**
5 Ryder Howard T △ FR 5-2992
6 Harty Isabel L Mrs △ ED 3-7373
Selwyn av intersects
2301 **Apartments**
1 Rogers Foster C △ FR 6-0868
2 Hardegree Jos J 375-2382
3 Sheard Thos C 333-9700
4 Houk Wilma B Mrs △ ED 4-1491
Street continued
2314 Sale Ruth A ⓒ △ ED 4-2430
2317 Dickson Clyde C ⓒ △ ED 3-5782
2320 Naumoff Philip ⓒ △ ED 4-3450
2325 Browne Godfrey H ⓒ △ ED 3-8322
2326 Gulton Yancey G △ FR 6-4159
2331 Timmons Clara ⓒ △ ED 4-7915
2332 Copeland Alex jr ⓒ △ ED 4-1134
2337 Holdforth J Gordon ⓒ mfrs agt △ ED 2-6746
2338 Jennings Horace S ⓒ △ ED 2-7608
2344 Munro Mary E Mrs ⓒ △ ED 2-1424
2350 O'Neil Eliz S Mrs ⓒ real est △ ED 2-4213
Shay Abbie L real est
Zone 9
Queens rd W intersects
Maryland av ends
2421 Mraz Edw C ⓒ △ ED 2-6270
2427 Linker Mamie R Mrs ⓒ △ ED 2-5989
Kay's Toys & Cards △ ED 2-5989
2433 Gallant Chas W ⓒ △ ED 3-1394
2439 Jordan Jord H ⓒ
2445 Townend Marian F Mrs ⓒ △ ED 3-3088
2451 Young E Bernard ⓒ △ ED 3-1048
Sterling rd intersects
42A
2521 Williams G Frank ⓒ mfrs agt △ FR 7-2629
Ridgewood av intersects
2608 Vacant
2614 Angerholzer Maxmillian ⓒ △ FR 6-6880
2617 Isenhour Margery D ⓒ △ FR 7-5944
2621 Fodel Geo L ⓒ △ ED 3-2484
2625 Fadel Amina Mrs ⓒ △ ED 3-2768
Hillside av intersects

63
CRYSTAL RD (Formerly Cyrus rd)—From 334 Central av south 1 west of Cyrus dr (Zone 5)
1401 Shuford Chas R ⓒ △ KE 7-3774
1415 Hatley Wm R ⓒ △ KE 7-3046
1423 Pate Jack D jr △ KE 7-3269
1424 Brown G Woodrow ⓒ △ KE 7-2822
1431 Carter Harold B ⓒ bldg contr △ KE 7-2461
1439 Weathers Wilbur L ⓒ △ KE 7-4231
Cyrus dr begins
1500 Mitchell Arth E △ ED 7-2285
1501 Coggins Chas E ⓒ △ KE 7-3132
1510 Scarborough Alton K ⓒ △ KE 7-5494
1511 Redfern Wm H ⓒ △ KE 7-5081
1518 Minday Michl ⓒ △ KE 7-1894
1519 Pitton Leslie H ⓒ △ KE 7-1991
1526 Fredrickson Everett W ⓒ △ KE 7-0147
1531 Gambic J Harley ⓒ △ KE 7-1901
1534 McGee Walter B ⓒ 537-6834
1542 Miller Lovetta T Mrs ⓒ △ KE 7-3726

97
CULLMAN AV—From 300 E 36th south, 2 east of N Tryon (numbers reversed) (Zone 6)
3115 Zoby L T & Sons mech contrs 375-7319
3122 Under construction
3123-25 Under construction
3139 Thomas Transfer & Storage Co moving vans 375-5715
3141 Interstate Tile & Marble Contrs △ ED 2-4019
3143 Vacant
3144 Nyanza Color & Chem Co dye stuffs 333-2452
3145 Mecklenburg Rubber Plate Co mfrs 375-4953
3147 Doco Inc fl surfacing 332-8439
Ventures Inc 332-8439
3149 May Otto B Inc (whse)
3151 May Otto B Inc dye stuffs △ ED 3-8068
△ ED 3-8116
3154 Snyder Paper Corp distrs △ FR 7-6501
3157 Do All Caro Co mach tools △ ED 4-5397
3159 Vacant
3162 Crucible Steel Co of America △ FR 7-1558
3200 Orders Mattress Co Inc mattress mfrs △ ED 3-0807
Orders Tile & Distr Co Inc floor covering △ ED 3-0807
3201 Kirsch Co whol draperies △ FR 6-4856-57
3206 Under construction
3209 Berkshire Color & Chem Co dye △ FR 5-8459
3211 Host Carpet Cleaning

38
CUMBERLAND AV (Ollworth)—From 1600 E Boulevard south (Zone 3)
1815 Dear Max ⓒ △ ED 4-0279
1818 Smart Edw J △ ED 2-4682
Reussenzehn C Edw △ ED 2-1857
1820 Brock James G △ FR 5-2821
1821 Hinkel Emory E ⓒ △ ED 2-8462
1824 Kelly Chas D jr ⓒ △ ED 4-2177
1825 Harris Olin M ⓒ △ FR 7-1269
1828 Kerr Jas B ⓒ △ ED 3-0614
Kerr Bertha M Mrs nurse
1829 Green Beatrice S Mrs ⓒ △ ED 3-6932
Worthington av intersects
1901 Trotter Morris E ⓒ △ ED 4-0539
1903 Meacham J Walter △ ED 3-5332
1905 Chrysler Mitzi Mrs ⓒ △ FR 5-1513
1907 Peeler M C
1911 Pierce Robt B △ FR 6-8244
1912 Bristow John N 376-7144
1915 Friedman Harold N ⓒ △ ED 3-7408
1916 Bickley Jacob E △ FR 5-3964
1917 Kuykendall Geo H ⓒ △ FR 6-5388
1920 Chaplin Frank W ⓒ △ FR 7-6190
Chaplin Mary F Mrs nurse
Ideal way intersects
2000 Hodges Sara L ⓒ △ ED 3-5641
2001 Miller John S jr ⓒ △ ED 3-7300
2003 Denny John T △ FR 6-2807
2005 Joyner Wm F ⓒ △ FR 5-2760
2009 Bruton Edwin C △ ED 4-9253
2013 Culp Bessie S Mrs ⓒ △ FR 6-6364
2025 Schreiber Saml J ⓒ mfrs agt △ FR 7-6477
Lynway dr ends
2100 Citron David S ⓒ △ FR 6-1871
2101 Ponischil Douglas F ⓒ △ FR 5-2366
2107 Brookshire Effie P Mrs ⓒ △ FR 5-2794
2114 Runnells Wm G ⓒ △ ED 3-3442
2115 Ross Mary S ⓒ △ FR 5-2713
2119 McBrayer Arnold E ⓒ △ ED 4-0515
2120 Wilkinson Wm H ⓒ △ ED 2-4893
2125 Knauff John W jr ⓒ △ ED 4-2212
2126 Kendall P Whitelaw ⓒ △ FR 5-8333
2131 Safen Wm G ⓒ △ ED 4-8262
2132 Davis Norman M ⓒ △ FR 7-3378
2137 Stone Doram J ⓒ △ ED 3-6058
2138 Glover Clarence E △ FR 7-7010
2143 Davis Thos R
2144 Lamplcy Geo H ⓒ △ ED 4-1517
2200 Miller Robt K ⓒ △ ED 3-1514
2201 Russell Jack B ⓒ △ ED 4-3849
2206 Jarrell Wm A jr ⓒ △ FR 6-1001
2209 Griggs Allan G ⓒ △ ED 4-7180
2214 Gardner F Max ⓒ △ ED 3-0036
2215 Shackleford Emmett W ⓒ △ FR 7-2881
2220 DerYuen Philip ⓒ △ FR 6-5847
2221 Archer Hassell D ⓒ △ FR 7-5737
2226 Emery Orville M ⓒ △ ED 2-6020
2227 Caulkins Franklin S ⓒ △ ED 4-6093
2232 Brown DeWitt F ⓒ △ ED 3-1959
2233 Chambers Earl G ⓒ △ FR 7-4197
2239 McDaniel Gussie P Mrs ⓒ △ ED 2-3082
2245 Koralek Wm J ⓒ △ FR 5-2434
2246 Vandiver Chas W ⓒ △ FR 5-4709
Clayton dr ends
2301 Sigmon Ned H ⓒ △ FR 6-7504
2309 Lomax Nancy E Mrs ⓒ △ ED 2-7992
2315 Stroupe Conger C ⓒ △ FR 7-3493
2318 Garrett Wm C jr ⓒ △ ED 3-2158
2321 Bailey Carriemae H Mrs 375-6872
Lilac rd ends
2408 Gray W Preston jr ⓒ 376-2185
2414 Lindsay Chas L ⓒ △ FR 7-7098
2418 Love Frank T jr ⓒ △ ED 2-4845
2424 Connell Glenn ⓒ △ FR 5-5808
2430 Traywick Eula M ⓒ mus tchr △ ED 2-1997

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CROCKETT—Contd
621 Steele Nathl ◎
622 Cureton Lester W ED4-4317
623 Wallace Leonard ◎
624 McCrory Mattie
629 Henry Jos ED4-1061
630 Glamour Girl Beauty Salon
630a McKnight Robt
631 Friendly Drop In Beauty Shop 376-6377
Boundary intersects

53
CROMERS (Hoskins)—From 3900 Rozzells Ferry rd southwest, 1 northwest of S Linwold av (Zone 8)
SAL crosses
103 Smith Henry S ◎ EX9-5268
105 Smith Beulah ◎ EX9-9178
107 Snider Emmett E ◎ EX9-9913
Craig Deale S Mrs
111 Tarte Bertha Mrs ◎ 392-5983
115 Gardner Wm Y ◎ EX9-9922
119 Mullis Roy B ◎
120 Farmer Wm J ◎ EX9-5065
124 Tarte Jas D ◎ EX9-1246
128 Love Fred R Rev ◎ EX9-3370
Gossett intersects
132 Chadwick Meth Church
204 Parker Milton EX9-3466
206 Frasheur Mermon W ◎ EX9-9096
208 Ray Nathan D
210 Vacant
212 Hathcock Annie T Mrs ◎
214 Smith Rebecca P Mrs 399-7574
216 Bittle Bradley A ◎ EX9-6932
218 Clement Melvin G
220 Morris Lewis K
222 Hasty Danl ◎
P&NRy crosses

59
CROMWELL CT—From 3417 Hampshire pl east, 1 south of Anderson
1600 Smith J Herman ◎ FR7-7663
1601 Mullinax Wm M ◎ FR6-4310
1610 Gilmore Cenie A Mrs ◎ ED4-2373
1611 McMahon Sam H ◎ ED3-1923
1616 Harris Roy S ED2-5824
1617 Coe Wallace O ◎ ED3-1454
1622 Reimanis Arends ◎ FR6-1316
Reimanis Dyidra E Mrs mus tchr
1623 Reed Claude W ◎ ED3-2739
1628 Young Donald C ◎ FR7-6016
1629 Blackmon Julian D ◎ 332-6710
1833 Cirulis Wm V ◎ FR6-7020

71
CROSBY RD—From 517 Sharon-Amity rd southeast, 1 northwest of Providence rd (Zone 7)
2910 L&H Realty Co EM6-3887
Modern Constn Co Inc EM6-3887
Harper Floyd I jr mfrs agt 366-3887
D&H Remodeling Co Inc bldg mtce EM6-3887
Vosburgh Ed & Co mfrs agts 366-3887
2911 Gray Robt J jr EM6-5296
2912 Glower Fred W ◎ phys EM6-5727
2914 Jones Wm I ◎ phys EM6-0223
2916 Johnston Chas M ◎ dentist EM6-4724
2917 Whisnant Ward W ◎ 366-1763
2920 Carpenter Geo F ◎ EM6-1651

86
CROSS (Chatham Estates)—From N Clement east, 1 north of Kensington dr (Zone 5)

42
CROYDON RD (Myers Park)—From 2300 Roswell av west and south, 1 east of Westfield rd (Zone 7)
2200 Apartments
9 Dry Pete L ED4-6533
10 Duncan Fred
11 Faulk Addie Mrs 334-7155
12 Grey Georgia S Mrs ED2-1525
2216 Apartments
5 Morris Leona M FR6-1093
6 Flowers Maybell L ED4-7856
7 No return
8 Miller Bobbi S 333-1253
2219 Apartments =>
7 Outen Vera B Mrs ED2-5358
8 Porter John G mfrs agt FR5-2879
9 Burroughs Otto C 375-2723
10 Sharpe Thos W ED4-3112
2221 Apartments
5 Ryder Howard T FR5-2992
6 Harty Isabel L Mrs ED3-7373
Selwyn av intersects
2301 Apartments
1 Rogers Foster C FR6-0868
2 Hardegree Jos J 375-2382
3 Sheard Thos C 333-9700
4 Houk Wilma B Mrs ED4-1491
Street continued
2314 Sale Ruth A ◎ ED4-2430
2317 Dickson Clyde C ◎ ED3-5782
2320 Naumoff Philip ◎ ED4-3450
2325 Browne Godfrey H ◎ ED3-6322
2326 Culton Yancey G FR6-4159
2331 Timmons Clara ◎
2332 Copeland Alex jr ◎ ED4-1134
2337 Holdforth J Gordon ◎ mfrs agt ED2-6746
2338 Jennings Horace S ◎ ED2-7608
2344 Munro Mary E Mrs ◎ ED2-1424
2350 O'Neil Eliz S Mrs ◎ real est ED2-4213
Shay Abbie L real est
Zone 9
Queens rd W intersects
Maryland av ends
2421 Mraz Edw C ◎ ED2-6270
2427 Linker Mamie R Mrs ◎ ED2-5989
Handcraft Shop toys and games ED2-5989
2433 Gallant Chas W ◎ ED3-1394
2439 Jordan Jord H ◎ ED3-3088
2445 Townend Marian F Mrs ◎
2451 Young E Bernard ◎ ED3-1048
Sterling rd intersects

42-A
2521 Williams G Frank ◎ mfrs agt FR7-2629
Ridgewood av intersects
2608 Vacant
2614 Angerholzer Maxmillian ◎ FR6-6880
2617 Isenhour Margery D ◎ FR7-5944
2621 Fodel Geo L ◎ ED3-2484
2625 Fadel Amina Mrs ◎ ED3-2768
Hillside av intersects

102
CRYSTAL RD—From 334 Central av south, 1 west of Cyrus dr (Zone 5)
1401 Shuford Chas R ◎ KE7-3774
1415 Hatley Wm R ◎ KE7-3046
1423 Pate Jack D jr KE7-3269
1424 Brown G Woodrow ◎ KE7-2822
1431 Carter Harold B ◎ bldg contr KE7-2461
1439 Weathers Wilbur L ◎ KE7-4231
Cyrus dr begins
1500 Mitchell Arth E ED7-2285
1501 Coggins Chas E ◎ KE7-3132
1510 Scarborough Alton K ◎ KE7-5494
1511 Redfern Wm H ◎ KE7-5081
1518 Minday Michl ◎ KE7-1894
1519 Pitton Leslie H ◎ KE7-1991
1526 Fredrickson Everette W ◎ KE7-0147
1531 Gamble J Harley ◎ KE7-1901
1534 McGee Walter B ◎ 537-6834
1542 Miller Lovetta T Mrs ◎ KE7-3726

97
CULLMAN AV—From 300 E 36th south, 2 east of N Tryon (numbers reversed; Zone 6)
3103-09 Vacant
3115 Zoby L T & Sons mech contrs 375-7319
3123-25 Vacant
3124-26 Under constn
3139 Thomas Transfer & Stge Co moving vans 375-5715
3141 Interstate Tile & Marble contrs ED2-4019
3143 Vacant
3144 Nyanza Color & Chem Co dye stuffs 333-2452
3145 Armstrong Contracting & Sup (br ofc) insulators 332-8103
3147-51 May Otto B Inc dye stuffs ED3-8068-3-8116
3154 Snyder Paper Corp distrs 333-9675
3157 Do All Caro Co mach tools ED4-5397
3159 Vacant
3162 Crucible Steel Co of America FR7-1558
3200 Orders Mattress Co Inc mfrs ED3-0807
Orders Tile & Distr Co Inc floor covering ED3-0807
3201 Kirsch Co whol draperies FR6-4856
3209 Berkshire Color & Chem Co dye FR5-8459
3210 Peter Hand Foundation vitamin mfrs 333-9137
3211 Vacant

38
CUMBERLAND AV (Dilworth)—From 1600 E Boulevard, 1 south of Lockhart dr
1815 Dear Max ◎ ED4-0279
1818 Smart Edw J ED2-4682
Reussenzehn C Edw ED2-1857
1820 Nook Maude S ◎
1821 Hinkel Emory E ◎ ED2-8462
1824 Kelly Chas D jr ◎ ED4-2177
1825 Harris Olin M ◎ FR7-1269
1828 Kerr Jas B ◎ ED3-0614
Kerr Bertha M Mrs nurse
1829 Green Beatrice S Mrs ◎ ED3-6932
Worthington av intersects
1901 Swertz Rose M
1903 Meacham J Walter ED3-5332
1905 Trotter Morris E ◎ FR5-1513
1907 Goad Elmer R
1911 Pierce Robt B FR6-8244
1912 Bristow John N 376-7144
1914 Rankin Otis K ◎ ED2-6330
1915 Friedman Harold N ◎ ED3-7408
1916 Bickley Jacob E FR5-3964
1917 Kuykendall Geo H ◎ FR6-5388
1920 Chaplin Frank W ◎ FR7-6190
Chaplin Mary F Mrs nurse
Ideal way intersects
2000 Hodges Sara L ◎ ED3-5641
2001 Miller John S jr ◎ ED3-7300
2003 Denny John T FR6-2807
2005 Joyner Wm F ◎ FR5-2760
2009 Bruton Edwin C ED4-9253
2013 Culp Bessie S Mrs ◎ FR6-6364
2025 Schreiber Saml J ◎ mfrs agt FR7-6477
Lynway dr ends
2100 Citron David S ◎ FR6-1871
2101 Ponischil Douglas F ◎ FR5-2366
2107 Brookshire Effie P Mrs ◎ FR5-2794
2114 Runnells Wm C ◎ ED3-3442
2115 Ross Mary S ◎ FR5-2713
2119 McBrayer Arnold E ◎ ED4-0515
2120 Wilkinson Wm H ◎ ED2-4893
2125 Knauff John W jr ◎ ED4-2212
2126 Kendall P Whitelaw ◎ FR5-8338
2131 McGinn Saml B ◎ 377-1898
2132 Davis Norman M ◎ FR7-3378
2137 Stone Doram J ◎ ED3-6056
2138 Vacant
2143 Baker Lyle A 334-2308
2144 Lampley Geo H ◎ ED4-1517
2200 Miller Robt K ◎ ED3-1514
2201 Russell Jack B ◎ ED4-3849
2206 Jarrell Wm A jr ◎ FR6-1001
2209 Griggs Allan C ◎ ED4-7180
2214 Gardner F Max ◎ ED3-0036
2215 Shackleford Emmett W ◎ FR7-2881
2220 DerYuen Philip T ◎ FR6-5847
2221 Archer Hassell D ◎ 376-2989
2226 Emery Orville M ◎ ED2-6020
2227 Caulkins Franklin S ◎ ED4-6093

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Appendix B

Field Notes and Photo Documentation: Monitoring Well Installation and Sampling

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

Photo #1: West looking view behind 3114 Cullman Ave. Well pair PMW 1A & 1B in center of photo, city of Charlotte in distance.

Photo #2: South looking view behind 3114 Cullman Ave at PMW-3A in center of photo. Silt fence to south is the approximate location of future retaining wall for elevated rail line.

Photo #3: East looking view behind 3114 Cullman Ave. Monitoring wells PMW-2A & 2B in center of photo. Note large cranes, augur machines and concrete pumps in use at rail construction site.

Photo #4: Southeast looking view behind vacant lot to east of Nexus Church building at monitoring wells PMW-18A & 18B in soil island in center of photo.

Photo #5: North looking view from front of 3114 Cullman Ave property at large flatbed trailer holding large diameter rebar and reinforced concrete pipe in distance with construction workers.

Photo #6: Southeast looking view at neighboring Nexus Church building.

Photo #7: Drilling rig set up on location PMW-21 in parking lot to north of church.

Photo #8: Driller's helper decontaminating split-spoon sampler used to collect continuous soil samples down to the depth of the top of partially weathered rock.

Photo #9: W&R field representative logging and screening soil samples from location PMW-21.

Photo #10: General location behind Nexus Church before well pair PMW-20A & 20B was installed.

Photo #11: Drilling rig installing one of the PMW-20 wells.

Photo #12: Completed permanent monitoring wells PMW-20A (right) and PMW-20B (left).

Photo #13: Completed permanent monitoring wells PMW-21A (left) and PMW-21B (right).

Photo #14: Completed permanent monitoring wells PMW-22A (left) and PMW-22B (right).

Projects

CFAY Trex 12/1/14

0730-0113 mob to Enviro-equipment pick up FID

1145-1230 mobe to site

1230 SAEDACCO onsite/B. Bellis onsite, walk site, discuss details of SOW

1300 Gray with CSX onsite

1310 offsite

1315 Gray & Travis from Balfour Beatty onsite to discuss possible interference with work

1330 Gray & Travis offsite

1330 setup on MW-71

12/1/14 Trex CFAY

MW-21 well log

Depth	Blow Count	FID	Sample ID
0-1	NA	ND	SB-21-0.5@1330
2	NA	3.17	SB-21-2'@1600
2-4	NA	1.79	
4-6	4/7/7/10	2.30	
6-8	2/4/6/6	1.13	
8-10	3/3/4/7	2.27	
10-12	5/5/8/9	1.10	
12-14	4/6/9/14	1.40	
14-16	5/6/10/12	1.84	
16-18	8/9/14/21	0.69	
18-20	6/10/50/5.5	1.02	
20-22	15/34/45/50/5	0.80	
22-24	25/50/4.25	0.31	
24-26	50/5.5	1.05	
26-28	32/41/50/4	0.81	
28-30	50/4.5	1.27	
30-32	50/5.75	2.58	
32-34	50/5.5	2.14	SB-21-34'@1545
35	Refusal		

1540 hits refusal

12/1/14 Trex C FAY

0-8 Brown/tan/orange mottled fine sandy CLAY, moderate plasticity firm, moist, sand content increase with depth

8-20 Brown & orange silty clayey SAND, weathered plag, micaceous, fine-med grains, angular, poorly sorted, wet

20-35 Brown and black SAND, slightly clayey, weathered plag, micaceous, angular grains, poorly sorted, wet, very hard

35' auger refusal

35-38 weathered rock, plag, quartz

38-40 unconsolidated material

40' set corner casing

12/1/14 Trex C FAY

1540 refused out with augers

1620 ~~1580~~ drillout using 8.25" HSA

call Bellis & informed him the detrex building was locked, update progress

1700 reached 35' with 8.25 HSA

1700 leave site

* collect rinsate @ 1610
rinsate 12/1/14

12/2/14 Trex C.FAY

0730-0745 mob SAEDACCO onsite building pit

0800 prep rig for air, advanced boring 5' beyond auger refusal

0915 Bellis called, set MW-22 at the edge of the grass, not into the natural area
collect soil samples from the deep well, do not sample the shallow well,

0935 placed casing @ 40', grouting in the casing

leave site to pick up cal kit for TVA

1130 onsite SAEDACCO is eating lu
Rich stated that they grouted in the out casing & they are set up on MW-24S

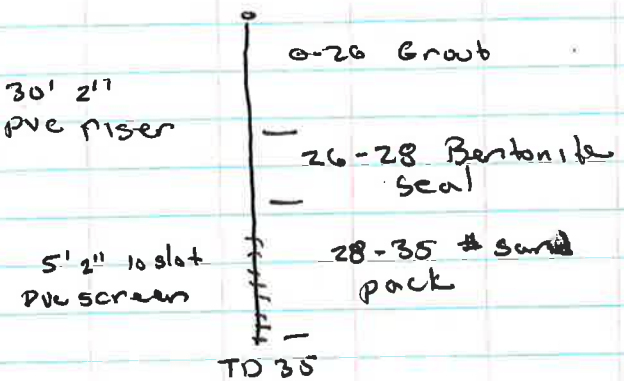
12/2/14 Trex C FAY

1200 Start drilling MW-21S

0-34 unconsolidated red CLAY
coarsing up to brownish orange
silty fine-coarse SAND

34-35 Rock chips
meta volcanic

1300 reach target depth of 35'
construct well



12/2/14 Trex C FAY

1400 Grout wells MW-21D MW-21S

1430 moving drums into warehouse

building decon pit

1500 Decon all augers

1600 setup the rig for air drilling
on MW-21D

1645 leave site/lock gate

Mob 1645 -1700

12/3/14 Trex C FAY

0730 - 0750 mob
SAEDACCO onsite

0815 start advancing MW-21D

~~tan~~ olive green PWR
40-43 hard
43-46 semi soft
46-47 hard
47-48 fracture/yielding water
48-49 semi hard
49 hard, meta volcanic diorite
50' - 50.5 micro fracture/yeild water
51.5 - 52 micro fractures
53-56 very soft, silt present
~~orange~~ orange in color
56- semi hard, 60' Black
sandy material

0945 drilling stopped, not hammering

1030 Ballis calls & stakes to attempt retrieve the drill head, however, if it is not retrieved

12/3/14 Trex CFAY

then ~~[illegible]~~ leave the head in the hole & set the well

waiting on word regarding drill bit replacement & strategy on retrieving the bit

1100 large magnet on the way, drillers break for lunch

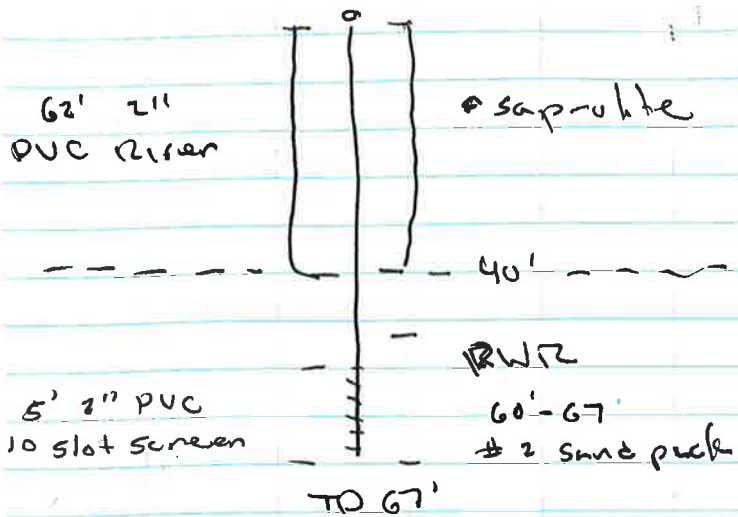
1130 drillers back onsite

1145 magnet is lowered in the well, however, is not strong enough to retrieve the head

1200 place casing in borehole
TD 67'

12/3/14 Trex CFAY

1215 constructing well



1225 called B Bellis regarding Bentonite seal, he stated to place 10' of Bentonite on sand pack

12/3/14 Trex CFAY

1230 calibrate TVA

collect sample from 67'
FID Reading 2.69 ppm
collect sample SB-21-67' @ 1230

1530 move over to MW-22 cluster.

1545 pothole the 1st 4'

1600 start drilling MW-22D with 6.25' HSA

1730 reached 46', too dark, stop work

1740 leave site

12/3/14 Trex CFAY

Depth	Blow count	PID (ppm)	Sample ID
0-1	NA	ND	SB-22-0.5' @ 1400 collected on 12/3/14
2	NA	ND	
4	2/2/3/4	ND	
6	4/6/6/7	ND	
8	3/3/3/5	ND	
10	2/3/3/6	0.39	
12	4/7/11/9	ND	
14	4/4/3/4	0.88	
16	4/3/6/8	no return	
18	3/4/5/9	ND	
20	4/4/3/4	0.12	
22	5/6/7/2	ND.	
24	3/4/5/9	0.12	
26	4/3/6/4	0.24	
28	4/4/4/7	ND	
30	4/3/4/6	1.60	
32	W/A/8/21/26	0.30	
34	14/34/50/5	1.51	
36	9/37/50/4.5	ND	
38	20/42/50/4	ND	
40	21/38/50/5.5	ND	
42	20/42/50/4	ND	
44	22/40/50/5.5	ND	
46	11/27/35/50/4.8	ND	
48	9/11/27/50/4	2.03	

12/4/14 Trex CFAY

50	6/17/33/50/4.5	0.46	
52	14/28/50/4.5	1.60	
54	7/14/40/50/3.75	1.20	
56	10/15/32/50/5	0.80	
58	6/28/31/50/4	2.87	
60	13/30/50/4.5	5.30	SB-22-60' @ 1020
62	11/50/4.5	3.80	SB-22-62' @ 1030 collected on 12/4/14
63	refusal		

Rinsate 12-3-14 @ 1645
Rinsate 12-4-14 @ 1045

~~xxxxx~~

12/4/14
0730-0745 mob, SAED ACCO onsite, start drilling from 46"

12/4/14 Trex CFAY

SB-22 Boring log

0-6 Orange fine-medium sandy silty CLAY, moist, soft, moderate plasticity

6-9 Gray & orange mottled, fine sandy silty CLAY, moist - wet @ 7', moderate plasticity, firm, sand content increase with depth

9-14 Gray clayey ~~medium~~ ~~CLAY~~ SAND, medium grains, angular, well sorted, wet, firm, clay content decrease with depth, 12' little to no fines

14-26 Green & white mottled, fine sandy clayey SILT, moist, firm, low plasticity, 20' weathered plag, biotite, mica

12/4/14 Trex CFAY

26-42 Olive green fine sandy clayey SILT, hard, moist, no plasticity

42-48 white & green mottled, fine sandy SILT, no plasticity, moist, hard, coarsing up

48-59 white green mottled, silty SAND, fine - med grains, hard, poorly sorted, angular grains,

59-63 Brownish orange silty SAND, fine, angular grains, rock fragments present, poorly sorted, hard, moist, weathered plag present

63 - auger refusal

10 15 refused out

12/4/14 Trex CFAY

1040 pulling 6.25" HSA

1130 pulled 6.25' HSA
break for lunch

1200 setting up to drill with 8.25" HSA

1230 start drilling

1400 pins holding crank shaft
broke, waiting for replacement
pins

1430 pins arrive, replaced

1445 start drilling.

1500 @ 45' feet switch to air,
augers are too heavy for
rig due to caking of cuttings

12/4/14 Trex CFAY

1630 reached 63', however,
the hole collapsed to ≈ 50',

SABDACLO is going to bring
a bigger rig tomorrow to turn
the 8.25" HSA to target depth

1630 call B. Bellis regarding
status

cleaning up & moving drum to
fenced area at Detrex

1730 leave site

12/8/14 Trex C FAY

0730 - 0745 mob
SAEDACCO onsite, with a bigger rig
- SAEDACCO's truck was broken ~~sto~~ into
switch rig from air to auger

0900 continue turning augers to target depth of 68'

0930 reached target depth of 68' (5 ft past auger refusal)

switching rig to air to blow out the HSA

1220 set outer casing, casing depth 70',
- call B Ballis of progress
1330 - drilling operations are complete, drillers will spend the rest of the day grouting & decomming

12/8/14 Trex C FAY

1330 leave site

mob 1330 - 1730

12/8/14 Trex C Fny

0645-1130 mob, stopped by Envirno-Equip to pick up supplies

SAEDACCO onsite, already ~~[illegible]~~ ~~[illegible]~~ dug out the first 4' feet

1145 set up on MW-22S, advancing 6.25" HSA to 63' & setting well

12/8/14 Trex CFAY

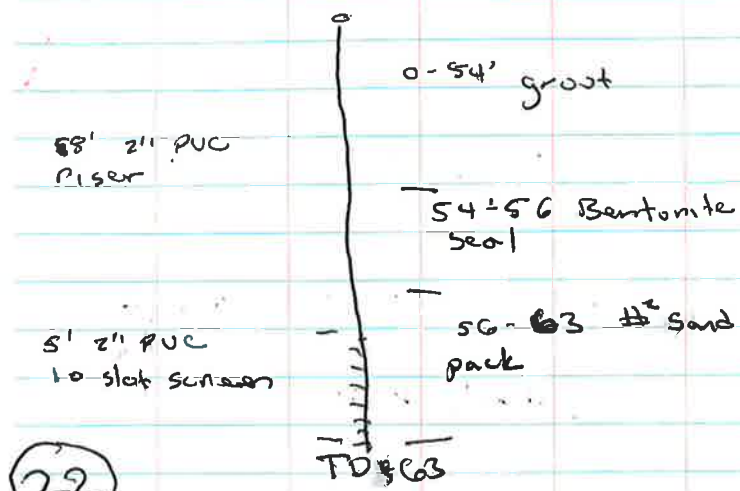
MW-22A

0-16 Brown fn sandy CLAY, moderate plasticity, moist, firm to soft

16-23 Gray ~~clayey sand~~ sandy CLAY, to clayey SAND, poorly sorted wet, soft

23-35 Olive green fn sandy ~~CLAY~~ SILT moist, low plasticity, firm

35-63 Tan silty fn-med SAND, poorly sorted, fine-medium grains, angular, wet, firm to hard, very hard from 60'-63'



12/8/14 Trex CFAY

1230 reach target depth, funnel in sand pack

1300 begin pulling augers

1330 move drums to Detrex

1400 move rig to MW-22D, build pit

1500 convert rig to run air

1530 lower hammer in outer casing

1600 start drilling

70-80 soft, orangish brown silt & rock frags ~~diorite~~

80-85 hard, silt. rock frags

85-87 very hard, comp

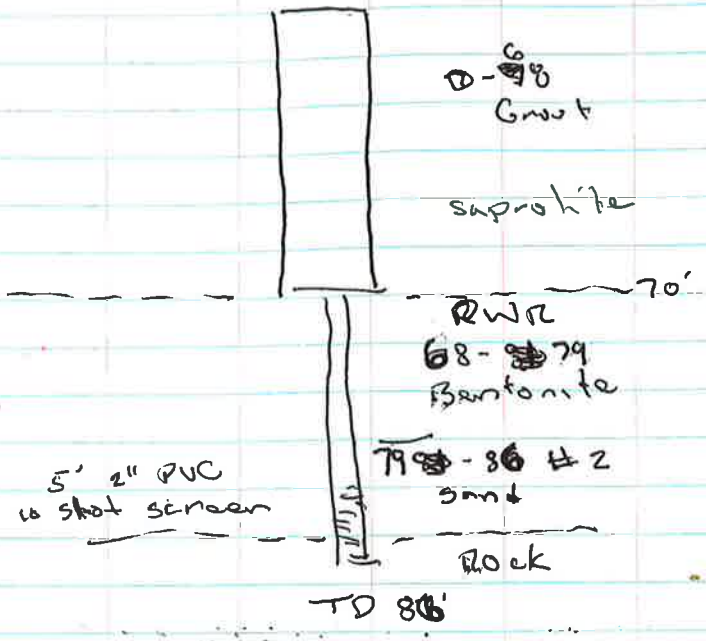
12/8/14 Trex CFAY

1600 ~~sta~~ calibrate TVA

collected sample at 85'
SB-22-85' @ 1630

FID reading NO

1700 pulling rods setting casing
MW-22



45
1730 leave site

45
1730-1800 mob

12/9/14 Trex CFAY

0730-0750 mob

0815 SAEDACCO onsite
finish grouting MW-22D

0830 ~~purge~~ develop MW-21S
water is very silty, tan color
purge with peristaltic pump, surge
block with bailer

water is slightly turbid @ 6 gallons

purge 10 gallons, slightly turbid

0930 develop MW-21D,
slightly turbid, purged 5 gallons

1000 SAEDACCO move over to MW-20
~~location~~ location

1130 start drilling MW-20
~~12-1230~~ 12-1230 lunch

12/9/14 Trex CFAy

	Blow Count	FID	Sample
0-1		ND	SB-20-0.5 @ 1130
2		ND	
4	W/4/3/4/6	ND	
6	1/3/4/6	60.91	
8	4/9/5/14	19.06	
10	8/11/15/26	8.93	
12	19/15/20/26	9.04	
14	20/21/25/30	1.53	
16	7/15/18/17	9.07	
18	9/10/11/15	14.21	
20	8/16/16/50/4.75	25.71	
22	no return		
24	15/50/5.5	51.50	
26	22/36/37/40	23.34	
28	12/45/49/50/4.5	55.20	
30	7/15/30/42	154	
32	50/5.5	210	
34	24/50/4	653	SB-20-36 @ 1600
36	21/28/50/5	1069	
38	16/37/50/5	407	SB-20-38 @ 1545

SB-20-0.5 Duplicate @ 1200
Rinsate 12/9/14 @ 1615

12/9/14 Trex CFAy

0-35 Tan fine to med sandy SILT gradational change to silty fine-medium SAND, poorly sorted moist wet @ 8', mottled, weathered biotite & plag present, firm to hard

35-38 Olive green fine sandy SILT no plasticity, moist, hard

38-41 mudstone - white

41-45 diorite set outer casing @ 48'

~~the~~ pins in the crank shaft broke repair 15-1530

1545 calibrate TUA

1630 setting up ~~the~~ to drill with 8.25" HSA

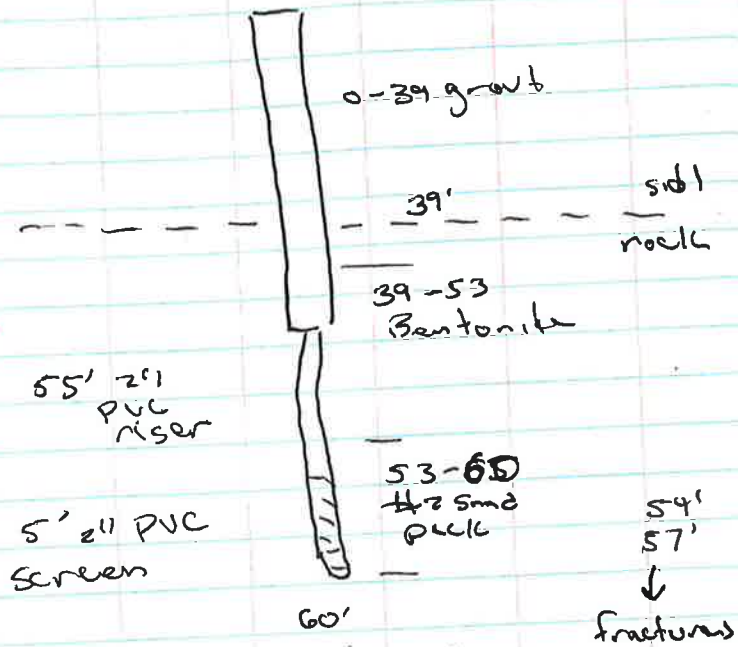
12/9/14 Trex CFAY

1730 reached target depth of 38' with 8.25" HSA

1745 leave site

1745-1800 mob

mw-20 B



12/10/14 Trex CFAY

0730-0750 mob

0810 SAEDACCO onsite, converting rig to air

0830 start drilling with air

≈2' below augers, very hard,

drilled 5' below augers, appears to be compenent rock, reached 45'

1030 called B Ballis & informed him that we were drilling into compenent rock, asked if we should set outer casing in rock, he stated to set outer casing @ depth & drill 15' beyond the outer casing & set 2" PVC

12/11/14 Trexo CFAY

1130 sample MW-21 B

sample time 1200

1200 drillers break for lunch

1205 start sampling MW-21 A

1330 Drillers back onsite

1240 collected Rinsate 12/11/14

1245 start drilling MW-20B
beyond casing

dry white rock dust from 45-54'
54 hit water bearing fracture

12/11/14 Trexo CFAY

1345 called B Ball, s to confirm that the casing should go to 60' with 5' screen, he stated to bring sand high enough to include the fracture

hit second fracture @ 57'

1400 reach target depth of 60', last 2' was hard, setting casing

1410 warm up TVA

1420 calibrate TVA

1430 collect soil sample
SB-20-60' @ 1400
FID reading ND

1445 Building MW-20B

1500 develop MW-20A
very silty - tan color, strong chlorinated odor

12/11/14 Tres CFM

1615 grouting MW-20B

1630 purged 15 gallons from MW-20A, water is slightly turbid, ~~stron~~ strong chlorinated odor persists

1645 developing MW-20B, water is slightly turbid, rust color sight chlorinated odor

2.5 gallons water is clear

1730 leave site

12/12/14 Tres CFM

0730 ~~[illegible]~~ onsite sample MW-20 cluster

0745 calibrate YSI & turbidity meter

0800 start purging MW-20B

collect sample @ 0830

0834 start purging MW-20A

strong chlorinated odor

collect sample @ 0900

doubled bag sample

Duplicate MW-20A ~~@~~ sample time 1000

collected Rinsate ~~B~~ @ 0930

0900 Drillers building well pads

1100 Drillers break for lunch, waiting for lab courier

1130 courier picks up samples

1200 Drillers onsite, moving drums into warehouse

12/12/14 Trex CFAJ

drum count

35 water
37 soil

1230 leave site

mob 1230 - 1730

Photo #1: Damaged PMW-18A in foreground (9/22/15). Protective steel cover surrounding well was apparently hit and bent during construction of nearby retaining wall on the left side of photo.

Photo #2: West looking view of damaged PMW-18A.

Photo #3: West looking view down power right of way adjacent to Little Sugar Creek (9/22/15). Photo taken from location where railroad tracks cross creek. Wells PMW-14A & B are reportedly located in wooded area to the left about 300 feet from tracks. Wells could not be found.

Photo #4: Another view of dense vegetation, which prevented wells PMW-14A & B from being found.

Photo #5: Approximate area where PMW-16A & B (flush mounted monitoring wells) should be located (9/22/15). Construction fill and gravel has been placed over most of the areas, as are large cargo containers.

Photo #6: South looking view of area where PMW-16A & B should be. Wells could not be located.

Photo #7: East-southeast looking view of construction equipment laydown area on empty lot where wells PMW-16A & B and PMW-17A & B (both sets of wells are flush mounted) should be located

Photo #8: Another view of construction equipment laydown area where wells PMW-16A &B and PMW-17A & B should be located. Wells could not be found and are likely buried under construction fill and crushed rock brought into area to support heavy equipment and vehicles for rail construction (9/22/15).

Photo #9: Mud/silt in end of groundwater sampling tubing after attempting to sample PMW-4A, which is located inside 3114 Cullman Avenue. The well was dry at the time of the September 2015 event.

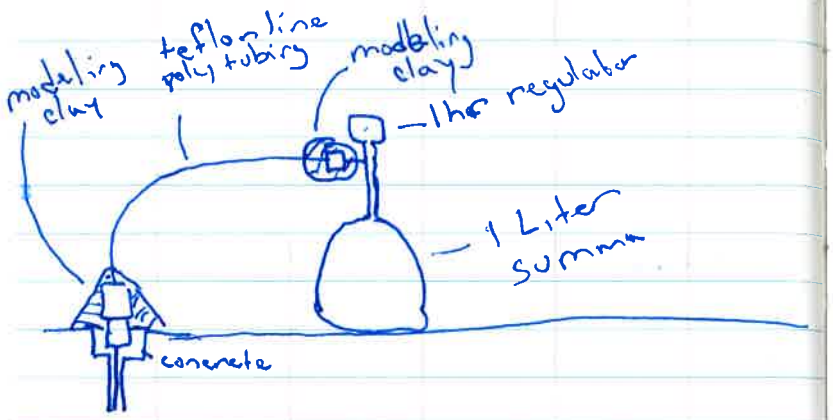
Photo #10: West looking view of wells PMW-22A & B installed on City of Charlotte property north of Little Sugar Creek and adjacent to well-maintained lawn (9/22/15).

9/22/15 Trex CFAY

1315 can # 1974 had no vacuum switched out with can # 567

1335 in taking off cap for SSV-2, the probe broke free of the concrete, used modeling clay to seal probe.

SSV schematic



1500 leave site

1530 drop off cans @ FedEx

1530 - 1900 mob

9/22/15 Trex CFAY

0530 - 0900 mob onsite, cloudy, mostly

P Jones onsite

all purge water is collected in 55 gal drum

locate MW-12 cluster

0930 set up on MW-22 cluster

warm up TVA.

0940 calibrate TVA

P Jones calibrates both YSI/turbid meters

	FID	PID
MW-22B	0.65	ND
MW-22A	0.55	ND

1015 start sampling PMW-22 A/B

1040 sample PMW-22 A

1045 sample PMW-22B

	PID	FID
1140 PMW-12A	4.92	4.12
PMW-12B	5.77	1.80

prior to purging wells a 2" slip cap fitted with a barb was used to allert air within well casing for head space analysis with a TVA

9/22/15 Trex 03130430

1155 purge MW-12 A/B

1215 Sample time MW-12B
1210 Sample time MW-12A
1220 attempt to find MW-14 cluster, tall plants ~~make~~ cannot locate
1255 set up on PMW-11 cluster

	PID	FID
PMW-11A	14.19	4.16
PMW-11B	12.47	2.90

1255 purge PMW-11 cluster

1315 Sample PMW-11 B
1315 Sample PMW-11 A

1[illegible]0	PID	FID
PMW-10A	522	702
PMW-10B	141	214

1355 purge PMW-10 cluster

PMW-10A Sample @ 1405
PMW-10B sample @ 1415

9/22/15 Trex 03130430

1420 set up on PMW-9 cluster

	PID	FID
PMW-9A	131	3857
PMW-9B	677	543
PMW-9C	243	510

1430 Pace courier onsite

1500 Pace courier offsite

1500 purge PMW-9C & PMW-9B

1520 sample PMW-9C
1530 sample PMW-9D

1600 Sample PMW-9A

1545 Attempt to locate PMW-13 ~~A~~B B/B 10/12/15

1600 locate PMW-13 ~~A~~B B/B 10/12/15

9/22/15 Trex 03130430

	PID	FID
PMW-13A	30.48	37.31
PMW-8A	21.00	67.31
PMW-8B	32.16	44.51

1610 setup on PMW-9 cluster
P Jones setup on PMW-13A

PMW-8B Sample 1640
PMW-8A Sample 1700
PMW-13A Sample 1635

1715 leave site

1715-1730 mob

attempted to locate the 16 & 17 cluster prior to leaving site, the wells are located in a laydown yard for the construction company working on the railroad, could not locate the wells

9/23/15 Trex 03130430

CFAY
P Jones

cloudy mid 60's

0700-0730 mob
onsite,
calibrate YSI turbidity meter & TVA

0750 collect head space readings

~~PMW~~	PID	FID
PMW-7A	95.05	185
PMW-7B BJB	73.53	125
PMW-27A BJB 10/12/15	12.54	22.58
PMW-27B	77.89	171
PMW-6 BJB 10/12/15	302	1007
PMW-25 BJB 10/12/15	604	1999

0800 setup on PMW-7 cluster
0755 purge PMW-7B
0805 purge PMW-7A

PMW-7A sample 0830
PMW-7B sample 0815

9/23/15 Trex 03130430

0840

collect equipment blank by running DI water from lab through tubing over WL Probe into bottles

Equipment Blank 9/23 @ 0840

collect Field Blank 9/23 @ 0835
CF 10/12/15

0950 set up on MW-2A cluster
CF 10/12/15

0955 start purging MW-2A cluster
CF 10/12/15

PMW-2A sample 0910
PMW-2B sample 0920
3B 10/12/15
0930
P Jones set up on PMW-6
set up on PMW-5

PMW-6A sample @ 0955
PMW-5A sample 1000

9/23/15 Trex 03130430

	PID	FID
PMW-2A	6.50	4.76
PMW-2B	5.81	4.65
PMW-3A	7.03	5.49
PMW-1A	4.22	6.65
PMW-1B	5.80	4.19

1045 P Jones set up on PMW-~~cluster~~
CF
cluster
PMW-2A sample @ 1120
PMW-2B sample @ 1155

1050 set up on PMW-1 cluster

PMW-1A sample @ 1125
PMW-1B sample @ 1200

1215 set up on PMW-3A

1300 head space on 18 cluster
& 20 cluster

9/23/15 Trex 03130430

	PID	FID
PMW-18A	3.80	2.25
PMW-18B	ND	ND
PMW-20A	53.43	40.16
PMW-20B	26.13	6.28

CF 10/12/15

1320 P Jones set up on 18 cluster

PMW-18A Bent, casing compromised
PMW-18 Sample @ 1350

1320 Set up on 20 Cluster
CF 10/12/15
PMW-20A sample @ 1415
PMW-20B sample @ 1345

PMW-20A Duplicate sample time @ 1600
1430 P Jones set up on PMW-4A

PID 2.47 FID 4.00
well was dry
~~sample @~~ CF

9/23/15 Trex 03130430

collect municipal water sample from bathroom sink in trex building
TAP @ 1445

leave site @ ~~1600~~ 1600
BJB 10/12/15

CP 7

reviewed by BJB 10/12/15

Appendix C

Soil Boring Logs and Well Completion Records

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

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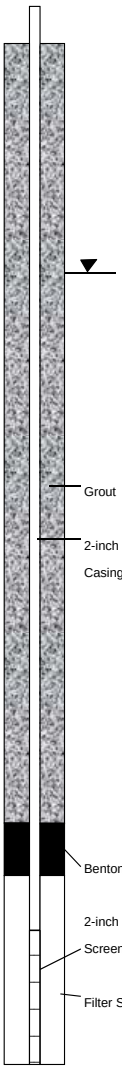
LOG OF BORING PMW-20A

Trex Property
Groundwater Assessment
Charlotte, NC
W&R Project No. 0313430.01

Date Started	: 12/11/2014	Drilling Company	: SAEDACCO
Date Completed	: 12/11/2014	Logged By	: Chris Fay
Hole Diameter	: 8.25"	Northing	: 1459994.0908
Drilling Method	: Hollow Stem Augers	Easting	: 550468.7336
Sampling Method	Split Spoon		

Depth in Feet	FID Results (in ppm)	USCS	GRAPHIC	DESCRIPTION
1	ND			
2	ND	ML/SM		Sandy SILT (ML) gradational change to sitly SAND (SM), Tan, fine to medium grains, poorly sorted, moist, wet at 8 feet BGS, firm to hard, weathered biotite and plagioclase feldspar present
3				
4	ND			
5				
6	60.91			
7				
8	19.06			
9				
10	8.93			
11				
12	9.04			
13				
14	1.53			
15				
16	9.07			
17				
18	14.21			
19				
20	25.71			
21				
22	NR			
23				
24	51.5			
25				
26	23.34			
27				
28	55.2			
29				
30	154			
31				
32	210			
33				
34	653			
35				
36	1069	ML		Sandy SILT (ML), Olive green, fine grain sand, no plasticity, moist, hard, chlorinated odor present
37				
38	407			
39		ROCK		Pegmatite-Plagioclase feldspar
40				

Well: PMW-20A
Elev.: 685.73



Well Construction Information

WELL CONSTRUCTION

Date Compl.	: 12/11/14
Hole Dia.	:8.25"
Drill. Method	:Hollow Stem Augers

OUTER CASING

Joints	:NA
Material	:NA
Diameter	:NA

INNER CASING

Joints	:Threaded
Material	:PVC
Diameter	:2 in.
WELL SCREEN	:0.010" Slotted
	:5 foot length

NOTES

TYPE II WELL -
Monitoring well boring drilled using hollow stem augers to a depth of 39 feet. Signs of moisture at ~8 feet

5-foot length of well screen set at 34 ft to 39 ft.
Filter sand installed from 32 ft to 39 ft.
Bentonite pellet seal installed from 30 ft. to 32 ft.

Soil samples collected: SB-20-0.5', SB-20-36', SB-20-38'

Completed with stick up type protective cover set in 2 by 2 ft concrete pad.

ND=No Detection of VOCs
NR=No Return

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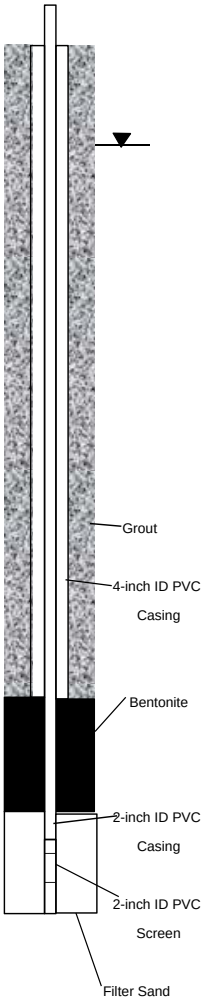
LOG OF BORING PMW-20B

Trex Property
Groundwater Assessment
Charlotte, NC
W&R Project No. 03130430.01

Date Started	: 12/9/2014	Drilling Company	: SAEDACCO
Date Completed	: 12/10/14	Logged By	: Chris Fay
Hole Diameter	:8.25" (HSA) 3.5" (Air)	Northing	:1459985.3455
Drilling Method	: Hollow Stem Auger/Air Rotary	Easting	: 550467.1483
Sampling Method	Split Spoon		

Depth in Feet	FID Results (in ppm)	USCS	GRAPHIC	DESCRIPTION
0	ND			
2	ND	ML/SM		Sandy SILT (ML) gradational change to sitly SAND (SM), Tan, fine to medium grains, poorly sorted, moist, wet at 8 feet BGS, firm to hard, weathered biotite and plagioclase feldspar present
4	ND			
6	60.91			
8	19.06			
10	8.93			
12	9.04			
14	1.53			
16	9.07			
18	14.21			
20	25.71			
22	NR			
24	51.5			
26	23.34			
28	55.2			
30	154			
32	210			
34	653			
36	1069	ML		Sandy SILT (ML), Olive green, fine grains, no plasticity, moist, hard, chlorinated odor present
38	407			
40		ROCK		Pegmatite-Plagioclase feldspar
42		ROCK		Diorite, very hard 45' BGS to 54' BGS, hit water bearing fracture at 54' and 57', very hard from 57' 60', chlorinated odor present
44				
46				
48				
50				
52				
54				
56				
58				
60	ND			
62				
64				
66				
68				
70				
72				
74				
76				
78				
80				
82				
84				
86				
88				
90				

Well: PMW-20B
Elev.: 686.34



Well Construction Information

WELL CONSTRUCTION

Date Compl.	:12/10/14
Hole Dia.	:8.25" (HSA) 3.5" (Air)
Drill. Method	:Hollow Stem Augers/ Air Rotary

OUTER CASING

Joints	:Threaded
Material	:PVC
Diameter	:4 in.

INNER CASING

Joints	:Threaded
Material	:PVC
Diameter	:2 in.

WELL SCREEN	:0.010" Slotted
	:5 foot length

NOTES

TYPE III WELL -
Monitoring well boring drilled using hollow stem augers and air rotary to a depth of 60 feet. Signs of moisture at ~8 feet

Outer Casing set at 45 ft. BGS
5-foot length of well screen set from 55 ft. to 60 ft.
Filter sand installed from 53 ft to 60 ft.
Bentonite pellet seal installed from 39 ft. to 53 ft.

Soil samples collected: SB-20-60'

Completed with stick up type protective cover set in 2 by 2 ft concrete pad.

ND=No Detection of VOCs
NR=No Return

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LOG OF BORING PMW-21A

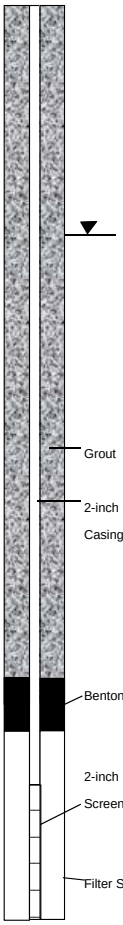
Trex Property
Groundwater Assessment
Charlotte, NC

W&R Project No. 0313430.01

Date Started	: 12/3/2014	Drilling Company	: SAEDACCO
Date Completed	: 12/3/2014	Logged By	: Chris Fay
Hole Diameter	: 8.25"	Northing	: 1459932.6512
Drilling Method	: Hollow Stem Augers	Easting	: 550662.9112
Sampling Method	Split Spoon		

Depth in Feet	FID Results (in ppm)	USCS	GRAPHIC	DESCRIPTION
1	ND			
2	3.17	CL		Sandy CLAY (CL), Brown, orange, tan mottled, fine grain sand, moderate plasticity, firm, moist, sand content increase with depth
3				
4	1.79			
5				
6	2.3			
7				
8	1.13			
9		SM		Silty SAND (SM), Brownish orange, fine to medium angular grains, poorly sorted, wet, micaceous, weathered plagioclase feldspar present
10	2.27			
11				
12	1.1			
13				
14	1.4			
15				
16	1.84			
17				
18	0.64			
19				
20	1.02			
21		SC		Clayey SAND (SC), Brown and black, clay content <10%, fine to medium angular grains, poorly sorted, saturated, micaceous, weathered plagioclase feldspar present, very hard
22	0.8			
23				
24	0.31			
25				
26	1.05			
27				
28	0.81			
29				
30	1.27			
31				
32	2.58			
33				
34	2.14			
35				
36				
37				
38				
39				
40				

Well: PMW-21A
Elev.: 682.91



Well Construction Information

WELL CONSTRUCTION

Date Compl.	: 12/3/14
Hole Dia.	:8.25"
Drill. Method	:Hollow Stem Augers

OUTER CASING

Joints	:NA
Material	:NA
Diameter	:NA

INNER CASING

Joints	:Threaded
Material	:PVC
Diameter	:2 in.

WELL SCREEN	:0.010" Slotted
	:5 foot length

NOTES

TYPE II WELL -
Monitoring well boring drilled using hollow stem augers to a depth of 35 feet. Signs of moisture at ~8 feet

5-foot length of well screen set at 30 ft to 35 ft.
Filter sand installed from 28 ft to 35 ft.
Bentonite pellet seal installed from 26 ft. to 28 ft.

Soil samples collected: SB-21-0.5', SB-21-2', SB-21-34'

Completed with bolt-down manhole lid protective cover set in 2 by 2 ft concrete pad.

ND=No Detection of VOCs
NR=No Return

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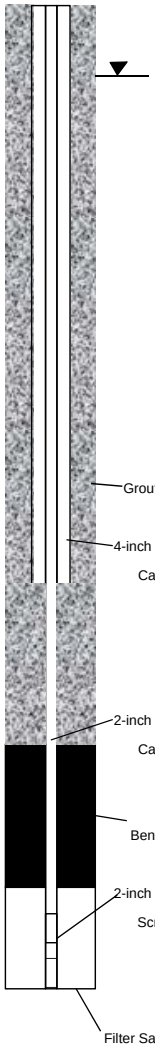
LOG OF BORING PMW-21B

Trex Property
Groundwater Assessment
Charlotte, NC
W&R Project No. 03130430.01

Date Started	: 12/1/2014	Drilling Company	: SAEDACCO
Date Completed	: 12/2/14	Logged By	: Chris Fay
Hole Diameter	:8.25" (HSA) 3.5" (Air)	Northing	:1459924.6313
Drilling Method	: Hollow Stem Auger/Air Rotary	Easting	: 550660.9251
Sampling Method	Split Spoon		

Depth in Feet	FID Results (in ppm)	USCS	GRAPHIC	DESCRIPTION
0	ND			
2	3.17	CL		Sandy CLAY (CL), Brown, orange, tan mottled, fine grain sand, moderate plasticity, firm, moist, sand content increase with depth
4	1.79			
6	2.3			
8	1.13			
10	2.27	SM		Silty SAND (SM), Brownish orange, fine to medium angular grains, poorly sorted, wet, micaceous, weathered plagioclase feldspar present
12	1.1			
14	1.4			
16	1.84			
18	0.64			
20	1.02			
22	0.8	SC		Clayey SAND (SC), Brown and black, clay content <10%, fine to medium angular grains, poorly sorted, saturated, micaceous, weathered plagioclase feldspar present, very hard
24	0.31			
26	1.05			
28	0.81			
30	1.27			
32	2.58			
34	2.14			
36				
38		PWR		PWR, diorite, weathered, heavy weathered from 38 to 40 feet BGS
40				
42		PWR		PWR, Olive green, weather plagioclase feldspar present, dry, fracture at 47 feet BGS
44				
46				
48				
50				
52		PWR		PWR-weathered diorite, fractures at 50 and 51.5 feet BGS, 53 to 56 feet BGS very soft silt present, 66 to 69 feet heavily weather black rock, chlorinated odor present
54				
56				
58				
60				
62				
64				
66				
68	2.69			
70				
72				
74				
76				
78				
80				
82				
84				
86				
88				
90				

Well: PMW-21B
Elev.: 682.96



Well Construction Information

WELL CONSTRUCTION

Date Compl.	:12/2/14
Hole Dia.	:8.25" (HSA) 3.5" (Air)
Drill. Method	: Hollow Stem Auger/ Air Rotary

OUTER CASING

Joints	:Threaded
Material	:PVC
Diameter	:4 in.

INNER CASING

Joints	:Threaded
Material	:PVC
Diameter	:2 in.

WELL SCREEN	:0.010" Slotted
	:5 foot length

NOTES

TYPE III WELL -
Monitoring well boring drilled using hollow stem augers and air rotary to a depth of 67 feet. Signs of moisture at ~8 feet

Outer Casing set at 40 ft. BGS
5-foot length of well screen set from 62 ft. to 67 ft.
Filter sand installed from 60 ft to 67 ft.
Bentonite pellet seal installed from 50 ft. to 60 ft.

Soil samples collected: SB-21-67'

Completed with bolt-down manhole lid protective cover set in 2 by 2 ft concrete pad.

ND=No Detection of VOCs
NR=No Return

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LOG OF BORING PMW-22A

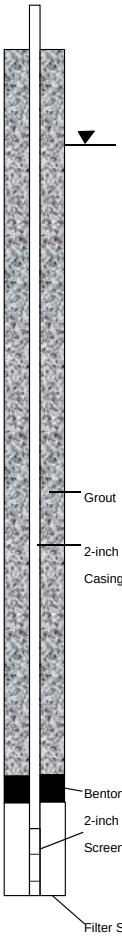
Trex Property
Groundwater Assessment
Charlotte, NC

W&R Project No. 0313430.01

Date Started	: 12/4/2014	Drilling Company	: SAEDACCO
Date Completed	: 12/4/2014	Logged By	: Chris Fay
Hole Diameter	: 8.25"	Northing	: 1459929.4298
Drilling Method	: Hollow Stem Augers	Easting	: 551060.4063
Sampling Method	: Split Spoon		

Depth in Feet	FID Results (in ppm)	USCS	GRAPHIC	DESCRIPTION
0	ND			
2	ND	CL		Sandy silty CLAY (CL), orange and gray, moist, soft, moderate plasticity, wet at 7 feet BGS, sand content increase with depth
4	ND			
6	ND			
8	ND			
10	0.34	SC		Clayey SAND (SC), Gray, medium angular grains, well sorted, wet, clay content decreases with depth, 12 feet BGS little to no fines
12	ND			
14	0.88			
16	NR	SM		Sandy clayey SILT (SM), Green and white mottled to olive green, low plasticity, moist, weathered plagioclase, mica and biotite present from 14 feet to 26 feet BGS, sand content increases with depth
18	ND			
20	0.12			
22	ND			
24	0.12			
26	0.24			
28	ND			
30	1.6			
32	0.3			
34	1.51			
36	ND			
38	ND			
40	ND			
42	ND			
44	ND			
46	ND			
48	2.03			
50	0.46	SM		Silty SAND (SM), White and green mottled, fine to medium angular grains, poorly sorted, moist, rock fragments present
52	1.6			
54	1.2			
56	0.8			
58	2.87			
60	5.3	SC		Silty SAND (SC), Brownish orange, little to no fines, fine angular grains, poorly sorted, saturated, weathered plagioclase feldspar present, very hard
62	3.8			
64				
66				
68				
70				
72				
74				
76				
78				
80				

Well: PMW-22A
Elev.:686.74



Well Construction Information

WELL CONSTRUCTION

Date Compl.	: 12/4/14
Hole Dia.	:8.25"
Drill. Method	:Hollow Stem Augers

OUTER CASING

Joints	:NA
Material	:NA
Diameter	:NA

INNER CASING

Joints	:Threaded
Material	:PVC
Diameter	:2 in.

WELL SCREEN	:0.010" Slotted
	:5 foot length

NOTES

TYPE II WELL -
Monitoring well boring drilled using hollow stem augers to a depth of 63 feet. Signs of moisture at ~7 feet

5-foot length of well screen set at 58 ft to 63 ft.
Filter sand installed from 56 ft to 63 ft.
Bentonite pellet seal installed from 54 ft. to 56 ft.

Soil samples collected: SB-22-0.5', SB-22-60', SB-22-62'

Completed with stick up type protective cover set in 2 by 2 ft concrete pad.

ND=No Detection of VOCs
NR=No Return

WITHERS & RAVENEL
ENGINEERS I PLANNERS I SURVEYORS
111 MacKenan Drive Cary, North Carolina 27511
tel: 919-460-6006 fax: 919-535-4545
www.withersravenel.com

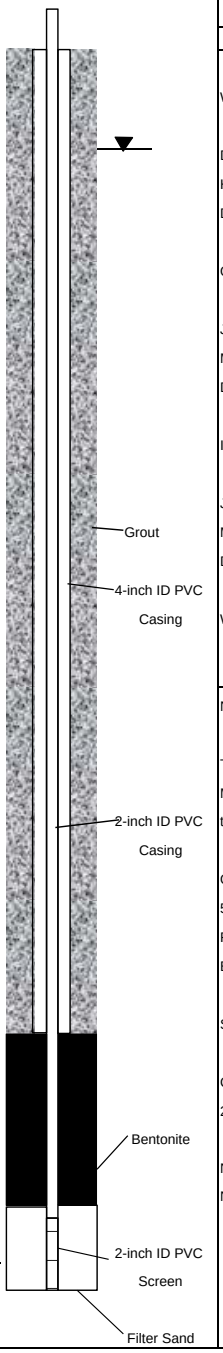
LOG OF BORING PMW-22B

Trex Property
Groundwater Assessment
Charlotte, NC
W&R Project No. 03130430.01

Date Started	: 12/7/2014	Drilling Company	: SAEDACCO
Date Completed	: 12/8/14	Logged By	: Chris Fay
Hole Diameter	:8.25" (HSA) 3.5" (Air)	Northing	:1459925.0887
Drilling Method	: Hollow Stem Auger/Air Rotary	Easting	: 551069.9543
Sampling Method	Split Spoon		

Depth in Feet	FID Results (in ppm)	USCS	GRAPHIC	DESCRIPTION
0	ND			
2	ND	CL		Sandy silty CLAY (CL), orange and gray, moist, soft, moderate plasticity, wet at 7 feet BGS, sand content increase with depth
4	ND			
6	ND			
8	ND			
10	0.34			
12	ND	SC		Clayey SAND (SC), Gray, medium angular grains, well sorted, wet, clay content decreases with depth, 12 feet BGS little to no fines
14	0.88			
16	NR	SM		Sandy clayey SILT (SM), Green and white mottled to olive green, low plasticity, moist, weather plagioclase, mica and biotite present from 14 feet to 26 feet BGS, sand content increases with depth
18	ND			
20	0.12			
22	ND			
24	0.12			
26	0.24			
28	ND			
30	1.6			
32	0.3			
34	1.51			
36	ND			
38	ND			
40	ND			
42	ND			
44	ND			
46	ND			
48	2.03			
50	0.46	SM		Silty SAND (SM), White and green mottled, fine to medium angular grains, poorly sorted, moist, rock fragments present
52	1.60			
54	1.20			
56	0.80			
58	2.87			
60	5.30			
62	3.80	SC		Silty SAND (SC), Brownish orange, little to no fines, fine angular grains, poorly sorted, saturated, weathered plagioclase feldspar present, very hard
64				
66		PWR		PWR-Dirotie rock chips with orangish brown silt
68				
70				
72				
74				
76				
78				
80				
82				
84				
86	ND	ROCK		Rock-Diorite
88				
90				

Well: PMW-22B
Elev.: 686.76



Well Construction Information

WELL CONSTRUCTION

Date Compl.	:12/8/14
Hole Dia.	:8.25" (HSA) 3.5" (Air)
Drill. Method	:Hollow Stem Augers/ Air Rotary

OUTER CASING

Joints	:Threaded
Material	:PVC
Diameter	:4 in.

INNER CASING

Joints	:Threaded
Material	:PVC
Diameter	:2 in.

WELL SCREEN	:0.010" Slotted
	:5 foot length

NOTES

TYPE III WELL -
Monitoring well boring drilled using hollow stem augers and air rotary to a depth of 86 feet. Signs of moisture at ~7 feet

Outer Casing set at 68 ft. BGS
5-foot length of well screen set from 81 ft. to 86 ft.
Filter sand installed from 79 ft to 86 ft.
Bentonite pellet seal installed from 68 ft. to 79 ft.

Soil samples collected: SB-22-86'

Completed with stick up type protective cover set in 2 by 2 ft concrete pad.

ND=No Detection of VOCs
NR=No Return

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2593

1. WELL CONTRACTOR:

Richy Lemire
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill SC 29707
City or Town State Zip Code

(803) 548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# WM0300790

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-20A

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation☐ Other ☐ (list use)

DATE DRILLED 12-11-14

4. WELL LOCATION:

3144 Cullman Avenue 28206
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Charlotte COUNTY Mecklenburg

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☒Flat ☐Ridge ☐Other

LATITUDE 35.250703 " DMS OR 3X.XXXXXXXXX DD

LONGITUDE -80.808885 " DMS OR 7X.XXXXXXXXX DD

Latitude/longitude source: ☒GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Trex Properties MW-20A
Facility Name Facility ID# (if applicable)

3144 Cullman Avenue
Street Address

Charlotte NC 28206
City or Town State Zip Code

David Craig
Contact Name

1650 Des Peres Road
Mailing Address

St. Louis MO 63131
City or Town State Zip Code

(314) 835-1515
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 39'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 7 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** +3 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 34'	Ft. 2"	SCH40	PVC
Top	Bottom	Ft.		
Top	Bottom	Ft.		

8. GROUT:

Depth		Material	Method
Top 0	Bottom 30'	Ft. PORTLAND	TREMMIE
Top	Bottom	Ft.	
Top	Bottom	Ft.	

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 34'	Bottom 39'	Ft. 2" in.	.010 in.	PVC
Top	Bottom	Ft. in.	in.	
Top	Bottom	Ft. in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 32'	Bottom 39'	Ft. #2	SAND
Top	Bottom	Ft.	
Top	Bottom	Ft.	

11. DRILLING LOG

Top	Bottom	Formation Description
0	39'	PWR

12. REMARKS:

BENTONITE FROM 30'TO32'.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Richy Lemire 12/13/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

RICHY L LEMIRE
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2593

1. WELL CONTRACTOR:

Richy Lemire
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill | SC | 29707
City or Town | State | Zip Code

(803) 548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# WM0300790

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-20B

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐ Irrigation ☐ Other ☐ (list use)

DATE DRILLED 12-11-14

4. WELL LOCATION:

3144 Cullman Avenue 28206
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Charlotte COUNTY Mecklenburg

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☒Flat ☐Ridge ☐Other

LATITUDE 35.250703 " DMS OR 3X.XXXXXXXXX DD

LONGITUDE -80.808885 " DMS OR 7X.XXXXXXXXX DD

Latitude/longitude source: ☒GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Trex Properties | MW-20B
Facility Name | Facility ID# (if applicable)

3144 Cullman Avenue
Street Address

Charlotte | NC | 28206
City or Town | State | Zip Code

David Craig
Contact Name

1650 Des Peres Road
Mailing Address

St. Louis | MO | 63131
City or Town | State | Zip Code

(314) 835-1515
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 60'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 7 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** +3 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 55' Ft.	2"	SCH40	PVC
Top 0	Bottom 45' Ft.	6"	SCH40	PVC
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0	Bottom 43' Ft.	PORTLAND	TREMMIE
Top	Bottom Ft.		
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 55'	Bottom 60' Ft.	2" in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 53'	Bottom 60' Ft.	#2	SAND
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	39'	PWR
39'	60'	ROCK
	60'	

12. REMARKS:

BENTONITE FROM 43'TO53'.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Richy L Lemire — 12/13/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE

RICHY L LEMIRE
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2593

1. WELL CONTRACTOR:

Richy Lemire
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill | SC | 29707
City or Town | State | Zip Code

(803) 548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# WM0300790

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-21A

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐ Irrigation ☐ Other ☐ (list use)

DATE DRILLED 12-3-14

4. WELL LOCATION:

3144 Cullman Avenue 28206
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Charlotte COUNTY Mecklenburg

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☒Flat ☐Ridge ☐Other

LATITUDE 35.250703 " DMS OR 3X.XXXXXXXXX DD

LONGITUDE -80.808885 " DMS OR 7X.XXXXXXXXX DD

Latitude/longitude source: ☒GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Trex Properties | MW-21A
Facility Name | Facility ID# (if applicable)

3144 Cullman Avenue
Street Address

Charlotte | NC | 28206
City or Town | State | Zip Code

David Craig
Contact Name

1650 Des Peres Road
Mailing Address

St. Louis | MO | 63131
City or Town | State | Zip Code

(314) 835-1515
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 35'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 7 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

Top ____ Bottom ____ Top ____ Bottom ____
Top ____ Bottom ____ Top ____ Bottom ____
Top ____ Bottom ____ Top ____ Bottom ____

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 30'	Ft. 2"	SCH40	PVC
Top	Bottom	Ft.		
Top	Bottom	Ft.		

8. GROUT:

Depth		Material	Method
Top 0	Bottom 26'	Ft. PORTLAND	TREMMIE
Top	Bottom	Ft.	
Top	Bottom	Ft.	

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 30'	Bottom 35'	Ft. 2" in.	.010 in.	PVC
Top	Bottom	Ft. in.	in.	
Top	Bottom	Ft. in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 28'	Bottom 35'	Ft. #2	SAND
Top	Bottom	Ft.	
Top	Bottom	Ft.	

11. DRILLING LOG

Top	Bottom	Formation Description
0	35'	PWR

12. REMARKS:

BENTONITE FROM 26'TO28'.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Richy Lemire | 12/13/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR | DATE

RICHY L LEMIRE
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2593

1. WELL CONTRACTOR:

Richy Lemire
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill SC 29707
City or Town State Zip Code

(803) 548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# WM0300790

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-21B

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐

Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐

Irrigation ☐ Other ☐ (list use)

DATE DRILLED 12-3-14

4. WELL LOCATION:

3144 Cullman Avenue 28206
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Charlotte COUNTY Mecklenburg

TOPOGRAPHIC / LAND SETTING: (check appropriate box)

☐Slope ☐Valley ☒Flat ☐Ridge ☐Other

LATITUDE 35.250703 " DMS OR 3X.XXXXXXXXX DD

LONGITUDE -80.808885 " DMS OR 7X.XXXXXXXXX DD

Latitude/longitude source: ☒GPS ☐Topographic map

(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Trex Properties MW-21B
Facility Name Facility ID# (if applicable)

3144 Cullman Avenue
Street Address

Charlotte NC 28206
City or Town State Zip Code

David Craig
Contact Name

1650 Des Peres Road
Mailing Address

St. Louis MO 63131
City or Town State Zip Code

(314) 835-1515
Area code Phone number

6. WELL DETAILS:

a. TOTAL DEPTH: 67'

b. DOES WELL REPLACE EXISTING WELL? YES ☐ NO ☒

c. WATER LEVEL Below Top of Casing: 7 FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 0 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): METHOD OF TEST

f. DISINFECTION: Type Amount

g. WATER ZONES (depth):

Top Bottom Top Bottom
Top Bottom Top Bottom
Top Bottom Top Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top 0	Bottom 62' Ft.	2"	SCH40	PVC
Top 0	Bottom 40' Ft.	6"	SCH40	PVC
Top	Bottom Ft.			

8. GROUT:

Depth		Material	Method
Top 0	Bottom 50' Ft.	PORTLAND	TREMMIE
Top	Bottom Ft.		
Top	Bottom Ft.		

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 62'	Bottom 67' Ft.	2" in.	.010 in.	PVC
Top	Bottom Ft.	in.	in.	
Top	Bottom Ft.	in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 60'	Bottom 67' Ft.	#2	SAND
Top	Bottom Ft.		
Top	Bottom Ft.		

11. DRILLING LOG

Top	Bottom	Formation Description
0	39'	SILTY SAND
39'		PWR

12. REMARKS:

BENTONITE FROM 50'TO 60'.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Richy Lemire 12/13/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

RICHY L LEMIRE
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

10317

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2593

1. WELL CONTRACTOR:

Richy Lemire
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill SC 29707
City or Town State Zip Code

(803) 548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# WM0300790

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-22A

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐ Irrigation ☐ Other ☐ (list use)

DATE DRILLED 12-9-14

4. WELL LOCATION:

3212 Benard Ave 28206
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Charlotte COUNTY Mecklenburg

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☒Flat ☐Ridge ☐Other

LATITUDE 35.250703 " DMS OR 3X.XXXXXXXXX DD

LONGITUDE -80.808885 " DMS OR 7X.XXXXXXXXX DD

Latitude/longitude source: ☒GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Trex Properties MW-22A
Facility Name Facility ID# (if applicable)

3212 Benard Avenue
Street Address

Charlotte NC 28206
City or Town State Zip Code

David Craig
Contact Name

1650 Des Peres Road
Mailing Address

St. Louis MO 63131
City or Town State Zip Code

(314) 835-1515
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 63'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 7 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** +3 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Depth		Diameter	Thickness/ Weight	Material
Top +3	Bottom 58'	Ft. 2"	SCH40	PVC
Top	Bottom	Ft.		
Top	Bottom	Ft.		

8. GROUT:

Depth		Material	Method
Top 0	Bottom 54'	Ft. PORTLAND	TREMMIE
Top	Bottom	Ft.	
Top	Bottom	Ft.	

9. SCREEN:

Depth		Diameter	Slot Size	Material
Top 58'	Bottom 63'	Ft. 2" in.	.010 in.	PVC
Top	Bottom	Ft. in.	in.	
Top	Bottom	Ft. in.	in.	

10. SAND/GRAVEL PACK:

Depth		Size	Material
Top 56'	Bottom 63'	Ft. #2	SAND
Top	Bottom	Ft.	
Top	Bottom	Ft.	

11. DRILLING LOG

Top	Bottom	Formation Description
0	27	RED SILT/CLAY
27'	63'	PWR
	63'	

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Richy L Lemire 12/13/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

RICHY L LEMIRE
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

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Form GW-1b
Rev. 2/09

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2593

1. WELL CONTRACTOR:

Richy Lemire
Well Contractor (Individual) Name

SAEDACCO Inc
Well Contractor Company Name

9088 Northfield Drive
Street Address

Fort Mill | SC | 29707
City or Town | State | Zip Code

(803) 548-2180
Area code Phone number

2. WELL INFORMATION:

WELL CONSTRUCTION PERMIT# WM0300790

OTHER ASSOCIATED PERMIT#(if applicable)

SITE WELL ID #(if applicable) MW-22B

3. WELL USE (Check One Box) Monitoring ☒ Municipal/Public ☐ Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐ Irrigation ☐ Other ☐ (list use)

DATE DRILLED 12-9-14

4. WELL LOCATION:

3212 Benard Ave 28206
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

CITY: Charlotte COUNTY Mecklenburg

TOPOGRAPHIC / LAND SETTING: (check appropriate box)
☐Slope ☐Valley ☒Flat ☐Ridge ☐Other

LATITUDE 35.250703 " DMS OR 3X.XXXXXXXXX DD

LONGITUDE -80.808885 " DMS OR 7X.XXXXXXXXX DD

Latitude/longitude source: ☒GPS ☐Topographic map
(location of well must be shown on a USGS topo map andattached to this form if not using GPS)

5. FACILITY (Name of the business where the well is located.)

Trex Properties | MW-22B
Facility Name | Facility ID# (if applicable)

3212 Benard Avenue
Street Address

Charlotte | NC | 28206
City or Town | State | Zip Code

David Craig
Contact Name

1650 Des Peres Road
Mailing Address

St. Louis | MO | 63131
City or Town | State | Zip Code

(314) 835-1515
Area code Phone number

6. WELL DETAILS:

a. **TOTAL DEPTH:** 86'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 7 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** +3 FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** _____ **Amount** _____

g. **WATER ZONES** (depth):

Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom
Top	Bottom	Top	Bottom

7. CASING:

Top	Bottom	Ft.	Diameter	Thickness/ Weight	Material
+3	86'		2"	SCH40	PVC
0	70'		6"	SCH40	PVC

8. GROUT:

Top	Bottom	Ft.	Material	Method
0	70'		PORTLAND	TREMMIE

9. SCREEN:

Top	Bottom	Ft.	Diameter	Slot Size	Material
81'	86'		2" in.	.010 in.	PVC
			in.	in.	
			in.	in.	

10. SAND/GRAVEL PACK:

Top	Bottom	Ft.	Size	Material
79'	86'		#2	SAND

11. DRILLING LOG

Top	Bottom	Formation Description
0	27	RED SILT/CLAY
27'	86'	PWR
	86'	

12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Richy Lemire | 12/13/2014
SIGNATURE OF CERTIFIED WELL CONTRACTOR | DATE

RICHY L LEMIRE
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit within 30 days of completion to: Division of Water Quality - Information Processing, 1617 Mail Service Center, Raleigh, NC 27699-161, Phone : (919) 807-6300

Form GW-1b
Rev. 2/09

North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

John E. Skvarla, III
Secretary

November 5, 2014

Trex Properties, LLC *via email*
1650 Des Peres Road, Suite 303
Saint Louis, MO 63131
Attention: David Craig

RE: Monitoring Well Construction Permit
Permit #WM0300790
Trex Properties, LLC, NCD049773245
3114 Cullman Ave, Charlotte
Mecklenburg County

Dear Mr. Craig:

In accordance with your completed applications received on November 3, 2014, we are forwarding herewith Monitoring Well Construction Permit Numbered WM0300790 and issued for the construction of six monitoring wells located near the subject site in Charlotte, Mecklenburg County.

This Permit will be effective for one year from the date of issuance and shall be subject to the conditions and limitations as specified therein.

Should you have any questions, please contact me at (704) 663-1699 ext 2180, or by email at Andrew.Pitner@ncdenr.gov.

Sincerely,

Andrew H. Pitner, P.G., Assistant Regional Supervisor
Mooresville Regional Office
Water Quality Regional Operations Section
Division of Water Resources, NCDENR

CC: DWR - Water Quality Regional Operations Section, Raleigh

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

PERMIT FOR THE CONSTRUCTION OF A MONITORING WELL

In accordance with the provisions of Article 7, Chapter 87, North Carolina General Statutes, and other applicable Laws, Rules and Regulations.

PERMISSION IS HEREBY GRANTED TO

Trex Properties, LLC (EnviroAnalytics Group as Agent)

FOR THE CONSTRUCTION OF A MONITOR WELL SYSTEM consisting of six wells owned by Trex Properties, LLC and located both at 31144 Cullman Avenue and in the street Right-of-Way near the Trex Properties Site # NCD049773245, located at 3114 Cullman Avenue, Charlotte, Mecklenburg County. This Permit is issued in accordance with the applications received on November 3, 2014, in conformity with specifications and supporting data, all of which are filed with the Department of Environment and Natural Resources and are considered integral parts of this Permit.

This Permit is for **well construction only**, and does not waive any provision or requirement of any other applicable law or regulation. Construction of any well under this Permit shall be in strict compliance with the North Carolina Well Construction Regulations and Standards (15A NCAC 02C .0100), and other State and Local Laws and regulations pertaining to well construction.

If any requirements or limitations specified in this Permit are unacceptable, you have a right to an adjudicatory hearing upon written request within 30 days of receipt of this Permit. The request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714. Unless such a demand is made, this Permit is final and binding.

This Permit will be effective for one year from the date of its issuance and shall be subject to other specified conditions, limitations, or exceptions as follows:

1. Issuance of this Permit does not obligate reimbursement from State trust funds, if these wells are being installed as part of an investigation for contamination from an underground storage tank or dry cleaner incident.
2. Issuance of this Permit does not supersede any other agreement, permit, or requirement issued by another agency.
3. The well(s) shall be located and constructed as shown on the attachments submitted as part of the Permit application.
4. Each well shall have a Well Contractor Identification Plate in accordance with 15A NCAC 02C .0108(o).
5. Well construction records (GW-1) for each well shall be submitted to the Division of Water Resources' Information Processing Unit within 30 days of the well completion.
6. When the well is discontinued or abandoned, it shall be abandoned in accordance with 15A NCAC 02C .0113 and a well abandonment record (GW-30) shall be submitted to the Division of Water Resources' Information Processing Unit within 30 days of the well abandonment.
7. Adequate permits must be obtained from Mecklenburg County Groundwater and Wastewater Services.

Permit issued the 5th day of November, 2014

FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Andrew H. Pitner, P.G., Assistant Regional Supervisor
Division of Water Resources

By Authority of the Environmental Management Commission

Permit No. # WM0300790

Appendix D

Laboratory Analytical Report for Soil, Groundwater and QA/QC Samples

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

October 28, 2015

David Craig
EnviroAnalytics Group
1650 Des Peres Road
Suite 303
Saint Louis, MO 63131

RE: Narrative – Matrix Spike Results

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92228438	Rinsate 12/1/14	92228438008
		Rinsate 12/3/14	92228438009
		Rinsate 12/4/14	92228438010

Data Concern: The batch associated matrix spike and matrix spike duplicate did not meet laboratory control limits for several compounds.

Response: EPA Method 8260 required batch QC, Matrix spike 1345964 and 1345965, was performed on a sample that was not associated with this project. The matrix QC was performed on project 92227329. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29527.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92228438	SB-21-0.5'	92228438001
		SB-21-2'	92228438002
		SB-21-34'	92228438003
		SB-21-67'	92228438004
		SB-22-0.5'	92228438005
		SB-22-60'	92228438006
		SB-22-63'	92228438007

Data Concern: The batch associated matrix spike did not meet laboratory control limits for several compounds.

Response: EPA Method 8260 required batch QC, Matrix spike 1348898, was performed on a sample that was not associated with this project. The matrix QC was performed on project 92228401. The matrix QC data pertains only to the sample that is spiked and therefore has no

bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29571.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92229483	MW-20B	92229483001
		MW-21A	92229483002
		MW-21B	92229483003
		MW-22A	92229483004
		MW-22B	92229483005
		DUPLICATE - WATER	92229483011

Data Concern: The batch associated matrix spike did not meet laboratory control limits for a number of compounds.

Response: The sample on which the EPA Method 8260 required batch QC was performed was diluted for high target compound determination effecting the calculations for the spike recoveries. The compound failures were biased high. The sample, 92229483002, was non-detected for the compounds that failed biased high in the matrix spike and/or matrix spike duplicate. Bias high QC results do not effect Non-detected sample results. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29652.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92229483	RINSATE 12/08/14	92229483006
		RINSATE 12/09/14	92229483007
		RINSATE 12/11/14	92229483008
		RINSATE 12/12/14	92229483009
		MW-20A	92229483010

Data Concern: The batch associated matrix spike did not meet laboratory control limits for several compounds.

Response: EPA Method 8260 required batch QC, Matrix spike 1356494, was performed on a sample that was not associated with this project. The matrix QC was performed on project 92229567. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29726.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92229483	SB-22-85'	92229483012

Data Concern: The batch associated matrix spike did not meet laboratory control limits for several compounds.

Response: The sample, 92229483012, was non-detected for the compounds that failed biased high in the matrix spike and/or matrix spike duplicate. Bias high QC results do not effect non-detected sample results. A bias low recovery on methylene chloride may indicate a matrix effect for that compound. The laboratory control sample indicated that the analytical system was in control for methylene chloride. Methylene chloride results in the sample may be considered biased low due to a matrix interference with the analysis for that sample. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29682.

Client Project ID	Pace Project ID	Client Sample ID	Pace Sample ID
Trex Properties Charlotte	92229483	SB-20-0.5'	92229483013
		SB-20-36'	92229483014
		SB-20-38'	92229483015
		SB-20-60'	92229483016

Data Concern: The batch associated matrix spike did not meet laboratory control limits for several compounds.

Response: EPA Method 8260 required batch QC, Matrix spike 1356205, was performed on a sample that was not associated with this project. The matrix QC was performed on project 92229349. The matrix QC data pertains only to the sample that is spiked and therefore has no bearing on the quality of the data for the other samples in the analytical batch. The Method Blank and Laboratory Control Sample that is evaluated with each batch of samples indicates laboratory analytical systems to be in control for data reported in batch MSV/29703.

Sincerely,

Cheryl Johnson

Cheryl Johnson
Quality Manager

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 11, 2014

David Craig
EnviroAnalytics Group
1650 Des Peres Road
Suite 303
Saint Louis, MO 63131

RE: Project: Trex Properties Charlotte
Pace Project No.: 92228438

Dear David Craig:
Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 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.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	Trex Properties Charlotte
Pace Project No.:	92228438

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-21-0.5' **Lab ID: 92228438001** Collected: 12/01/14 13:30 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	**185**	ug/kg	92.9	1		12/10/14 19:27	67-64-1	
Benzene	ND	ug/kg	4.6	1		12/10/14 19:27	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/10/14 19:27	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/10/14 19:27	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/10/14 19:27	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/10/14 19:27	75-25-2	
Bromomethane	ND	ug/kg	9.3	1		12/10/14 19:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.9	1		12/10/14 19:27	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/10/14 19:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/10/14 19:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/10/14 19:27	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/10/14 19:27	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:27	108-90-7	
Chloroethane	ND	ug/kg	9.3	1		12/10/14 19:27	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/10/14 19:27	67-66-3	
Chloromethane	ND	ug/kg	9.3	1		12/10/14 19:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/10/14 19:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/10/14 19:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		12/10/14 19:27	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		12/10/14 19:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/10/14 19:27	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/10/14 19:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:27	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.3	1		12/10/14 19:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/10/14 19:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/10/14 19:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/10/14 19:27	75-35-4	
cis-1,2-Dichloroethene	**6.3**	ug/kg	4.6	1		12/10/14 19:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/10/14 19:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/10/14 19:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/10/14 19:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/10/14 19:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/10/14 19:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/10/14 19:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/10/14 19:27	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		12/10/14 19:27	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		12/10/14 19:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/10/14 19:27	87-68-3	
2-Hexanone	ND	ug/kg	46.5	1		12/10/14 19:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		12/10/14 19:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/10/14 19:27	99-87-6	
Methylene Chloride	ND	ug/kg	18.6	1		12/10/14 19:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.5	1		12/10/14 19:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/10/14 19:27	1634-04-4	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-21-0.5' **Lab ID: 92228438001** Collected: 12/01/14 13:30 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	4.6	1		12/10/14 19:27	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/10/14 19:27	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/10/14 19:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/10/14 19:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/10/14 19:27	79-34-5	
Tetrachloroethene	**34.1**	ug/kg	4.6	1		12/10/14 19:27	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/10/14 19:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/10/14 19:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/10/14 19:27	79-00-5	
Trichloroethene	**84.0**	ug/kg	4.6	1		12/10/14 19:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/10/14 19:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/10/14 19:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/10/14 19:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/10/14 19:27	108-67-8	
Vinyl acetate	ND	ug/kg	46.5	1		12/10/14 19:27	108-05-4	
Vinyl chloride	ND	ug/kg	9.3	1		12/10/14 19:27	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		12/10/14 19:27	1330-20-7	
m&p-Xylene	ND	ug/kg	9.3	1		12/10/14 19:27	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		12/10/14 19:27	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1		12/10/14 19:27	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		12/10/14 19:27	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-132	1		12/10/14 19:27	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.1**	%	0.10	1		12/10/14 14:46		

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-21-2' **Lab ID: 92228438002** Collected: 12/01/14 16:00 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	92.4	1		12/10/14 19:46	67-64-1	
Benzene	ND	ug/kg	4.6	1		12/10/14 19:46	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/10/14 19:46	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/10/14 19:46	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/10/14 19:46	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/10/14 19:46	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		12/10/14 19:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	92.4	1		12/10/14 19:46	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/10/14 19:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/10/14 19:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/10/14 19:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/10/14 19:46	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:46	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		12/10/14 19:46	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/10/14 19:46	67-66-3	
Chloromethane	ND	ug/kg	9.2	1		12/10/14 19:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/10/14 19:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/10/14 19:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		12/10/14 19:46	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		12/10/14 19:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/10/14 19:46	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/10/14 19:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		12/10/14 19:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/10/14 19:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/10/14 19:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/10/14 19:46	75-35-4	
cis-1,2-Dichloroethene	**16.6**	ug/kg	4.6	1		12/10/14 19:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/10/14 19:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/10/14 19:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/10/14 19:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/10/14 19:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/10/14 19:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/10/14 19:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/10/14 19:46	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		12/10/14 19:46	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		12/10/14 19:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/10/14 19:46	87-68-3	
2-Hexanone	ND	ug/kg	46.2	1		12/10/14 19:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		12/10/14 19:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/10/14 19:46	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		12/10/14 19:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	46.2	1		12/10/14 19:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/10/14 19:46	1634-04-4	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-21-2' **Lab ID: 92228438002** Collected: 12/01/14 16:00 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	4.6	1		12/10/14 19:46	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/10/14 19:46	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/10/14 19:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/10/14 19:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/10/14 19:46	79-34-5	
Tetrachloroethene	**20.0**	ug/kg	4.6	1		12/10/14 19:46	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/10/14 19:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/10/14 19:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/10/14 19:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/10/14 19:46	79-00-5	
Trichloroethene	**77.8**	ug/kg	4.6	1		12/10/14 19:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/10/14 19:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/10/14 19:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/10/14 19:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/10/14 19:46	108-67-8	
Vinyl acetate	ND	ug/kg	46.2	1		12/10/14 19:46	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		12/10/14 19:46	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		12/10/14 19:46	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		12/10/14 19:46	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		12/10/14 19:46	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		12/10/14 19:46	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		12/10/14 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-132	1		12/10/14 19:46	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.4**	%	0.10	1		12/10/14 14:46		

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-21-34' **Lab ID: 92228438003** Collected: 12/01/14 15:45 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	81.7	1		12/10/14 20:06	67-64-1	
Benzene	ND	ug/kg	4.1	1		12/10/14 20:06	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		12/10/14 20:06	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		12/10/14 20:06	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		12/10/14 20:06	75-27-4	
Bromoform	ND	ug/kg	4.1	1		12/10/14 20:06	75-25-2	
Bromomethane	ND	ug/kg	8.2	1		12/10/14 20:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	81.7	1		12/10/14 20:06	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		12/10/14 20:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		12/10/14 20:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		12/10/14 20:06	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.1	1		12/10/14 20:06	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		12/10/14 20:06	108-90-7	
Chloroethane	ND	ug/kg	8.2	1		12/10/14 20:06	75-00-3	
Chloroform	ND	ug/kg	4.1	1		12/10/14 20:06	67-66-3	
Chloromethane	ND	ug/kg	8.2	1		12/10/14 20:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		12/10/14 20:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		12/10/14 20:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.1	1		12/10/14 20:06	96-12-8	
Dibromochloromethane	ND	ug/kg	4.1	1		12/10/14 20:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		12/10/14 20:06	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		12/10/14 20:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		12/10/14 20:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		12/10/14 20:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		12/10/14 20:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.2	1		12/10/14 20:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		12/10/14 20:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		12/10/14 20:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		12/10/14 20:06	75-35-4	
cis-1,2-Dichloroethene	**8.6**	ug/kg	4.1	1		12/10/14 20:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/10/14 20:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		12/10/14 20:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		12/10/14 20:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		12/10/14 20:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		12/10/14 20:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/10/14 20:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/10/14 20:06	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.1	1		12/10/14 20:06	108-20-3	
Ethylbenzene	ND	ug/kg	4.1	1		12/10/14 20:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		12/10/14 20:06	87-68-3	
2-Hexanone	ND	ug/kg	40.9	1		12/10/14 20:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		12/10/14 20:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		12/10/14 20:06	99-87-6	
Methylene Chloride	ND	ug/kg	16.3	1		12/10/14 20:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	40.9	1		12/10/14 20:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		12/10/14 20:06	1634-04-4	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-21-34' **Lab ID: 92228438003** Collected: 12/01/14 15:45 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	4.1	1		12/10/14 20:06	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		12/10/14 20:06	103-65-1	
Styrene	ND	ug/kg	4.1	1		12/10/14 20:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/10/14 20:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/10/14 20:06	79-34-5	
Tetrachloroethene	**119**	ug/kg	4.1	1		12/10/14 20:06	127-18-4	
Toluene	ND	ug/kg	4.1	1		12/10/14 20:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		12/10/14 20:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		12/10/14 20:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		12/10/14 20:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		12/10/14 20:06	79-00-5	
Trichloroethene	**148**	ug/kg	4.1	1		12/10/14 20:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		12/10/14 20:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		12/10/14 20:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		12/10/14 20:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		12/10/14 20:06	108-67-8	
Vinyl acetate	ND	ug/kg	40.9	1		12/10/14 20:06	108-05-4	
Vinyl chloride	ND	ug/kg	8.2	1		12/10/14 20:06	75-01-4	
Xylene (Total)	ND	ug/kg	8.2	1		12/10/14 20:06	1330-20-7	
m&p-Xylene	ND	ug/kg	8.2	1		12/10/14 20:06	179601-23-1	
o-Xylene	ND	ug/kg	4.1	1		12/10/14 20:06	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		12/10/14 20:06	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130	1		12/10/14 20:06	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-132	1		12/10/14 20:06	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.9**	%	0.10	1		12/10/14 14:46		

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-21-67' **Lab ID: 92228438004** Collected: 12/03/14 12:30 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	122	1		12/10/14 20:26	67-64-1	
Benzene	ND	ug/kg	6.1	1		12/10/14 20:26	71-43-2	
Bromobenzene	ND	ug/kg	6.1	1		12/10/14 20:26	108-86-1	
Bromochloromethane	ND	ug/kg	6.1	1		12/10/14 20:26	74-97-5	
Bromodichloromethane	ND	ug/kg	6.1	1		12/10/14 20:26	75-27-4	
Bromoform	ND	ug/kg	6.1	1		12/10/14 20:26	75-25-2	
Bromomethane	ND	ug/kg	12.2	1		12/10/14 20:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	122	1		12/10/14 20:26	78-93-3	
n-Butylbenzene	ND	ug/kg	6.1	1		12/10/14 20:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.1	1		12/10/14 20:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.1	1		12/10/14 20:26	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.1	1		12/10/14 20:26	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	1		12/10/14 20:26	108-90-7	
Chloroethane	ND	ug/kg	12.2	1		12/10/14 20:26	75-00-3	
Chloroform	ND	ug/kg	6.1	1		12/10/14 20:26	67-66-3	
Chloromethane	ND	ug/kg	12.2	1		12/10/14 20:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.1	1		12/10/14 20:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.1	1		12/10/14 20:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.1	1		12/10/14 20:26	96-12-8	
Dibromochloromethane	ND	ug/kg	6.1	1		12/10/14 20:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.1	1		12/10/14 20:26	106-93-4	
Dibromomethane	ND	ug/kg	6.1	1		12/10/14 20:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.1	1		12/10/14 20:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.1	1		12/10/14 20:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.1	1		12/10/14 20:26	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	12.2	1		12/10/14 20:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.1	1		12/10/14 20:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.1	1		12/10/14 20:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.1	1		12/10/14 20:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1		12/10/14 20:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.1	1		12/10/14 20:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.1	1		12/10/14 20:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.1	1		12/10/14 20:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.1	1		12/10/14 20:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.1	1		12/10/14 20:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.1	1		12/10/14 20:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.1	1		12/10/14 20:26	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.1	1		12/10/14 20:26	108-20-3	
Ethylbenzene	ND	ug/kg	6.1	1		12/10/14 20:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.1	1		12/10/14 20:26	87-68-3	
2-Hexanone	ND	ug/kg	61.1	1		12/10/14 20:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.1	1		12/10/14 20:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.1	1		12/10/14 20:26	99-87-6	
Methylene Chloride	ND	ug/kg	24.4	1		12/10/14 20:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	61.1	1		12/10/14 20:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.1	1		12/10/14 20:26	1634-04-4	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-21-67' **Lab ID: 92228438004** Collected: 12/03/14 12:30 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	6.1	1		12/10/14 20:26	91-20-3	
n-Propylbenzene	ND	ug/kg	6.1	1		12/10/14 20:26	103-65-1	
Styrene	ND	ug/kg	6.1	1		12/10/14 20:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1		12/10/14 20:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1		12/10/14 20:26	79-34-5	
Tetrachloroethene	**56.7**	ug/kg	6.1	1		12/10/14 20:26	127-18-4	
Toluene	ND	ug/kg	6.1	1		12/10/14 20:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.1	1		12/10/14 20:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.1	1		12/10/14 20:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1		12/10/14 20:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	1		12/10/14 20:26	79-00-5	
Trichloroethene	**47.3**	ug/kg	6.1	1		12/10/14 20:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.1	1		12/10/14 20:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.1	1		12/10/14 20:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.1	1		12/10/14 20:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.1	1		12/10/14 20:26	108-67-8	
Vinyl acetate	ND	ug/kg	61.1	1		12/10/14 20:26	108-05-4	
Vinyl chloride	ND	ug/kg	12.2	1		12/10/14 20:26	75-01-4	
Xylene (Total)	ND	ug/kg	12.2	1		12/10/14 20:26	1330-20-7	
m&p-Xylene	ND	ug/kg	12.2	1		12/10/14 20:26	179601-23-1	
o-Xylene	ND	ug/kg	6.1	1		12/10/14 20:26	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%	70-130	1		12/10/14 20:26	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/10/14 20:26	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-132	1		12/10/14 20:26	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.6**	%	0.10	1		12/10/14 14:47		

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-22-0.5' **Lab ID: 92228438005** Collected: 12/03/14 14:00 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	**228**	ug/kg	116	1		12/10/14 20:46	67-64-1	
Benzene	ND	ug/kg	5.8	1		12/10/14 20:46	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		12/10/14 20:46	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		12/10/14 20:46	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		12/10/14 20:46	75-27-4	
Bromoform	ND	ug/kg	5.8	1		12/10/14 20:46	75-25-2	
Bromomethane	ND	ug/kg	11.6	1		12/10/14 20:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	116	1		12/10/14 20:46	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		12/10/14 20:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		12/10/14 20:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		12/10/14 20:46	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.8	1		12/10/14 20:46	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		12/10/14 20:46	108-90-7	
Chloroethane	ND	ug/kg	11.6	1		12/10/14 20:46	75-00-3	
Chloroform	ND	ug/kg	5.8	1		12/10/14 20:46	67-66-3	
Chloromethane	ND	ug/kg	11.6	1		12/10/14 20:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		12/10/14 20:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		12/10/14 20:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		12/10/14 20:46	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		12/10/14 20:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		12/10/14 20:46	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		12/10/14 20:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		12/10/14 20:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		12/10/14 20:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		12/10/14 20:46	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.6	1		12/10/14 20:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		12/10/14 20:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		12/10/14 20:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		12/10/14 20:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		12/10/14 20:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		12/10/14 20:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		12/10/14 20:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		12/10/14 20:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		12/10/14 20:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		12/10/14 20:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		12/10/14 20:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		12/10/14 20:46	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.8	1		12/10/14 20:46	108-20-3	
Ethylbenzene	ND	ug/kg	5.8	1		12/10/14 20:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		12/10/14 20:46	87-68-3	
2-Hexanone	ND	ug/kg	57.9	1		12/10/14 20:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		12/10/14 20:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		12/10/14 20:46	99-87-6	
Methylene Chloride	ND	ug/kg	23.2	1		12/10/14 20:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.9	1		12/10/14 20:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		12/10/14 20:46	1634-04-4	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-22-0.5' **Lab ID: 92228438005** Collected: 12/03/14 14:00 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	5.8	1		12/10/14 20:46	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		12/10/14 20:46	103-65-1	
Styrene	ND	ug/kg	5.8	1		12/10/14 20:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		12/10/14 20:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		12/10/14 20:46	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		12/10/14 20:46	127-18-4	
Toluene	ND	ug/kg	5.8	1		12/10/14 20:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		12/10/14 20:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		12/10/14 20:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		12/10/14 20:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		12/10/14 20:46	79-00-5	
Trichloroethene	ND	ug/kg	5.8	1		12/10/14 20:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		12/10/14 20:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		12/10/14 20:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		12/10/14 20:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		12/10/14 20:46	108-67-8	
Vinyl acetate	ND	ug/kg	57.9	1		12/10/14 20:46	108-05-4	
Vinyl chloride	ND	ug/kg	11.6	1		12/10/14 20:46	75-01-4	
Xylene (Total)	ND	ug/kg	11.6	1		12/10/14 20:46	1330-20-7	
m&p-Xylene	ND	ug/kg	11.6	1		12/10/14 20:46	179601-23-1	
o-Xylene	ND	ug/kg	5.8	1		12/10/14 20:46	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		12/10/14 20:46	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/10/14 20:46	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-132	1		12/10/14 20:46	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.4**	%	0.10	1		12/10/14 14:47		

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-22-60' **Lab ID: 92228438006** Collected: 12/04/14 10:20 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	89.5	1		12/10/14 21:06	67-64-1	
Benzene	ND	ug/kg	4.5	1		12/10/14 21:06	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		12/10/14 21:06	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		12/10/14 21:06	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		12/10/14 21:06	75-27-4	
Bromoform	ND	ug/kg	4.5	1		12/10/14 21:06	75-25-2	
Bromomethane	ND	ug/kg	9.0	1		12/10/14 21:06	74-83-9	
2-Butanone (MEK)	ND	ug/kg	89.5	1		12/10/14 21:06	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		12/10/14 21:06	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		12/10/14 21:06	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		12/10/14 21:06	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.5	1		12/10/14 21:06	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		12/10/14 21:06	108-90-7	
Chloroethane	ND	ug/kg	9.0	1		12/10/14 21:06	75-00-3	
Chloroform	ND	ug/kg	4.5	1		12/10/14 21:06	67-66-3	
Chloromethane	ND	ug/kg	9.0	1		12/10/14 21:06	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		12/10/14 21:06	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		12/10/14 21:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.5	1		12/10/14 21:06	96-12-8	
Dibromochloromethane	ND	ug/kg	4.5	1		12/10/14 21:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		12/10/14 21:06	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		12/10/14 21:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		12/10/14 21:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		12/10/14 21:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		12/10/14 21:06	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.0	1		12/10/14 21:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		12/10/14 21:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		12/10/14 21:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		12/10/14 21:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/10/14 21:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/10/14 21:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		12/10/14 21:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		12/10/14 21:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		12/10/14 21:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		12/10/14 21:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/10/14 21:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/10/14 21:06	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.5	1		12/10/14 21:06	108-20-3	
Ethylbenzene	ND	ug/kg	4.5	1		12/10/14 21:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		12/10/14 21:06	87-68-3	
2-Hexanone	ND	ug/kg	44.8	1		12/10/14 21:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		12/10/14 21:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		12/10/14 21:06	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		12/10/14 21:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	44.8	1		12/10/14 21:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		12/10/14 21:06	1634-04-4	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-22-60' **Lab ID: 92228438006** Collected: 12/04/14 10:20 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	4.5	1		12/10/14 21:06	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		12/10/14 21:06	103-65-1	
Styrene	ND	ug/kg	4.5	1		12/10/14 21:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/10/14 21:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/10/14 21:06	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		12/10/14 21:06	127-18-4	
Toluene	ND	ug/kg	4.5	1		12/10/14 21:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		12/10/14 21:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		12/10/14 21:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		12/10/14 21:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		12/10/14 21:06	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		12/10/14 21:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		12/10/14 21:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		12/10/14 21:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		12/10/14 21:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		12/10/14 21:06	108-67-8	
Vinyl acetate	ND	ug/kg	44.8	1		12/10/14 21:06	108-05-4	
Vinyl chloride	ND	ug/kg	9.0	1		12/10/14 21:06	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		12/10/14 21:06	1330-20-7	
m&p-Xylene	ND	ug/kg	9.0	1		12/10/14 21:06	179601-23-1	
o-Xylene	ND	ug/kg	4.5	1		12/10/14 21:06	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		12/10/14 21:06	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/10/14 21:06	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-132	1		12/10/14 21:06	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.3**	%	0.10	1		12/10/14 14:47		

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-22-63' **Lab ID: 92228438007** Collected: 12/04/14 10:30 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	91.8	1		12/10/14 21:26	67-64-1	
Benzene	ND	ug/kg	4.6	1		12/10/14 21:26	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/10/14 21:26	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/10/14 21:26	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/10/14 21:26	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/10/14 21:26	75-25-2	
Bromomethane	ND	ug/kg	9.2	1		12/10/14 21:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	91.8	1		12/10/14 21:26	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/10/14 21:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/10/14 21:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/10/14 21:26	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/10/14 21:26	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/10/14 21:26	108-90-7	
Chloroethane	ND	ug/kg	9.2	1		12/10/14 21:26	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/10/14 21:26	67-66-3	
Chloromethane	ND	ug/kg	9.2	1		12/10/14 21:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/10/14 21:26	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/10/14 21:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.6	1		12/10/14 21:26	96-12-8	
Dibromochloromethane	ND	ug/kg	4.6	1		12/10/14 21:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/10/14 21:26	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/10/14 21:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/10/14 21:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/10/14 21:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/10/14 21:26	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	9.2	1		12/10/14 21:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/10/14 21:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/10/14 21:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/10/14 21:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/10/14 21:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/10/14 21:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/10/14 21:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/10/14 21:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/10/14 21:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/10/14 21:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/10/14 21:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/10/14 21:26	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.6	1		12/10/14 21:26	108-20-3	
Ethylbenzene	ND	ug/kg	4.6	1		12/10/14 21:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/10/14 21:26	87-68-3	
2-Hexanone	ND	ug/kg	45.9	1		12/10/14 21:26	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		12/10/14 21:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/10/14 21:26	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		12/10/14 21:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	45.9	1		12/10/14 21:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/10/14 21:26	1634-04-4	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: SB-22-63' **Lab ID: 92228438007** Collected: 12/04/14 10:30 Received: 12/05/14 12:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	4.6	1		12/10/14 21:26	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/10/14 21:26	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/10/14 21:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/10/14 21:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/10/14 21:26	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/10/14 21:26	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/10/14 21:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/10/14 21:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/10/14 21:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/10/14 21:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/10/14 21:26	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/10/14 21:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/10/14 21:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/10/14 21:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/10/14 21:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/10/14 21:26	108-67-8	
Vinyl acetate	ND	ug/kg	45.9	1		12/10/14 21:26	108-05-4	
Vinyl chloride	ND	ug/kg	9.2	1		12/10/14 21:26	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		12/10/14 21:26	1330-20-7	
m&p-Xylene	ND	ug/kg	9.2	1		12/10/14 21:26	179601-23-1	
o-Xylene	ND	ug/kg	4.6	1		12/10/14 21:26	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		12/10/14 21:26	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/10/14 21:26	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-132	1		12/10/14 21:26	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.9**	%	0.10	1		12/10/14 14:47		

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: Rinsate 12/1/14 **Lab ID: 92228438008** Collected: 12/01/14 16:10 Received: 12/05/14 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/08/14 18:06	67-64-1	
Benzene	ND	ug/L	1.0	1		12/08/14 18:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/08/14 18:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/08/14 18:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/08/14 18:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/08/14 18:06	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/08/14 18:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/08/14 18:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/08/14 18:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/08/14 18:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/14 18:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/08/14 18:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/14 18:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/08/14 18:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/08/14 18:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/08/14 18:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/08/14 18:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/08/14 18:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/08/14 18:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/08/14 18:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/08/14 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/08/14 18:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/08/14 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/14 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/14 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/08/14 18:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/08/14 18:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/08/14 18:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/08/14 18:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/14 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/14 18:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/08/14 18:06	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/08/14 18:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/08/14 18:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/08/14 18:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/08/14 18:06	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/08/14 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/08/14 18:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/08/14 18:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/08/14 18:06	91-20-3	
Styrene	ND	ug/L	1.0	1		12/08/14 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/14 18:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/14 18:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/08/14 18:06	127-18-4	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: Rinsate 12/1/14 **Lab ID: 92228438008** Collected: 12/01/14 16:10 Received: 12/05/14 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/08/14 18:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/08/14 18:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/08/14 18:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/08/14 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/14 18:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/08/14 18:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/08/14 18:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/08/14 18:06	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/08/14 18:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/08/14 18:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/08/14 18:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/08/14 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		12/08/14 18:06	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/08/14 18:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: Rinsate 12/3/14 **Lab ID: 92228438009** Collected: 12/03/14 16:10 Received: 12/05/14 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/08/14 18:22	67-64-1	
Benzene	ND	ug/L	1.0	1		12/08/14 18:22	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/08/14 18:22	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/08/14 18:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/08/14 18:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/08/14 18:22	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/08/14 18:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/08/14 18:22	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/08/14 18:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/08/14 18:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/14 18:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/08/14 18:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/14 18:22	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/08/14 18:22	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/08/14 18:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/08/14 18:22	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/08/14 18:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/08/14 18:22	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/08/14 18:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/08/14 18:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/08/14 18:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/08/14 18:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/08/14 18:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/14 18:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/14 18:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/08/14 18:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/08/14 18:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/08/14 18:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/08/14 18:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/14 18:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/14 18:22	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/08/14 18:22	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/08/14 18:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/08/14 18:22	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/08/14 18:22	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/08/14 18:22	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/08/14 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/08/14 18:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/08/14 18:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/08/14 18:22	91-20-3	
Styrene	ND	ug/L	1.0	1		12/08/14 18:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/14 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/14 18:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/08/14 18:22	127-18-4	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: Rinsate 12/3/14 **Lab ID: 92228438009** Collected: 12/03/14 16:10 Received: 12/05/14 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/08/14 18:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/08/14 18:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/08/14 18:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/08/14 18:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/14 18:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/08/14 18:22	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/08/14 18:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/08/14 18:22	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/08/14 18:22	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/08/14 18:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/08/14 18:22	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/08/14 18:22	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		12/08/14 18:22	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/08/14 18:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: Rinsate 12/4/14 **Lab ID: 92228438010** Collected: 12/04/14 10:45 Received: 12/05/14 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/08/14 18:38	67-64-1	
Benzene	ND	ug/L	1.0	1		12/08/14 18:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/08/14 18:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/08/14 18:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/08/14 18:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/08/14 18:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/08/14 18:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/08/14 18:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/08/14 18:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/08/14 18:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/08/14 18:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/08/14 18:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/08/14 18:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/08/14 18:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/08/14 18:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/08/14 18:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/08/14 18:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/08/14 18:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/08/14 18:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/08/14 18:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/08/14 18:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/08/14 18:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/08/14 18:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/14 18:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/08/14 18:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/08/14 18:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/08/14 18:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/08/14 18:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/08/14 18:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/14 18:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/08/14 18:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/08/14 18:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/08/14 18:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/08/14 18:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/08/14 18:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/08/14 18:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/08/14 18:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/08/14 18:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/08/14 18:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/08/14 18:38	91-20-3	
Styrene	ND	ug/L	1.0	1		12/08/14 18:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/14 18:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/08/14 18:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/08/14 18:38	127-18-4	

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ANALYTICAL RESULTS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Sample: Rinsate 12/4/14 **Lab ID: 92228438010** Collected: 12/04/14 10:45 Received: 12/05/14 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/08/14 18:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/08/14 18:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/08/14 18:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/08/14 18:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/08/14 18:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/08/14 18:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/08/14 18:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/08/14 18:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/08/14 18:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/08/14 18:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/08/14 18:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/08/14 18:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/08/14 18:38	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		12/08/14 18:38	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/08/14 18:38	2037-26-5	

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

QC Batch: MSV/29527 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92228438008, 92228438009, 92228438010

METHOD BLANK: 1345962 Matrix: Water
Associated Lab Samples: 92228438008, 92228438009, 92228438010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/08/14 14:24	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/08/14 14:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/08/14 14:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/08/14 14:24	
1,1-Dichloroethane	ug/L	ND	1.0	12/08/14 14:24	
1,1-Dichloroethene	ug/L	ND	1.0	12/08/14 14:24	
1,1-Dichloropropene	ug/L	ND	1.0	12/08/14 14:24	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/08/14 14:24	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/08/14 14:24	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/08/14 14:24	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/08/14 14:24	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/08/14 14:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/08/14 14:24	
1,2-Dichloroethane	ug/L	ND	1.0	12/08/14 14:24	
1,2-Dichloropropane	ug/L	ND	1.0	12/08/14 14:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/08/14 14:24	
1,3-Dichloropropane	ug/L	ND	1.0	12/08/14 14:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/08/14 14:24	
2,2-Dichloropropane	ug/L	ND	1.0	12/08/14 14:24	
2-Butanone (MEK)	ug/L	ND	5.0	12/08/14 14:24	
2-Chlorotoluene	ug/L	ND	1.0	12/08/14 14:24	
2-Hexanone	ug/L	ND	5.0	12/08/14 14:24	
4-Chlorotoluene	ug/L	ND	1.0	12/08/14 14:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/08/14 14:24	
Acetone	ug/L	ND	25.0	12/08/14 14:24	
Benzene	ug/L	ND	1.0	12/08/14 14:24	
Bromobenzene	ug/L	ND	1.0	12/08/14 14:24	
Bromochloromethane	ug/L	ND	1.0	12/08/14 14:24	
Bromodichloromethane	ug/L	ND	1.0	12/08/14 14:24	
Bromoform	ug/L	ND	1.0	12/08/14 14:24	
Bromomethane	ug/L	ND	2.0	12/08/14 14:24	
Carbon tetrachloride	ug/L	ND	1.0	12/08/14 14:24	
Chlorobenzene	ug/L	ND	1.0	12/08/14 14:24	
Chloroethane	ug/L	ND	1.0	12/08/14 14:24	
Chloroform	ug/L	ND	1.0	12/08/14 14:24	
Chloromethane	ug/L	ND	1.0	12/08/14 14:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/08/14 14:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/08/14 14:24	
Dibromochloromethane	ug/L	ND	1.0	12/08/14 14:24	
Dibromomethane	ug/L	ND	1.0	12/08/14 14:24	
Dichlorodifluoromethane	ug/L	ND	1.0	12/08/14 14:24	

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

METHOD BLANK: 1345962 Matrix: Water
Associated Lab Samples: 92228438008, 92228438009, 92228438010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/08/14 14:24	
Ethylbenzene	ug/L	ND	1.0	12/08/14 14:24	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/08/14 14:24	
m&p-Xylene	ug/L	ND	2.0	12/08/14 14:24	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/08/14 14:24	
Methylene Chloride	ug/L	ND	2.0	12/08/14 14:24	
Naphthalene	ug/L	ND	1.0	12/08/14 14:24	
o-Xylene	ug/L	ND	1.0	12/08/14 14:24	
p-Isopropyltoluene	ug/L	ND	1.0	12/08/14 14:24	
Styrene	ug/L	ND	1.0	12/08/14 14:24	
Tetrachloroethene	ug/L	ND	1.0	12/08/14 14:24	
Toluene	ug/L	ND	1.0	12/08/14 14:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/08/14 14:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/08/14 14:24	
Trichloroethene	ug/L	ND	1.0	12/08/14 14:24	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/14 14:24	
Vinyl acetate	ug/L	ND	2.0	12/08/14 14:24	
Vinyl chloride	ug/L	ND	1.0	12/08/14 14:24	
Xylene (Total)	ug/L	ND	2.0	12/08/14 14:24	
1,2-Dichloroethane-d4 (S)	%	101	70-130	12/08/14 14:24	
4-Bromofluorobenzene (S)	%	98	70-130	12/08/14 14:24	
Toluene-d8 (S)	%	98	70-130	12/08/14 14:24	

LABORATORY CONTROL SAMPLE: 1345963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.8	106	70-130	
1,1,1-Trichloroethane	ug/L	50	50.6	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	70-130	
1,1,2-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethene	ug/L	50	50.0	100	70-132	
1,1-Dichloropropene	ug/L	50	49.0	98	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.8	94	70-135	
1,2,3-Trichloropropane	ug/L	50	46.4	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.1	96	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	40.1	80	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	99	70-130	
1,2-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,2-Dichloroethane	ug/L	50	46.5	93	70-130	
1,2-Dichloropropane	ug/L	50	45.9	92	70-130	
1,3-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,3-Dichloropropane	ug/L	50	46.3	93	70-130	
1,4-Dichlorobenzene	ug/L	50	51.1	102	70-130	

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

LABORATORY CONTROL SAMPLE: 1345963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	49.7	99	58-145	
2-Butanone (MEK)	ug/L	100	80.7	81	70-145	
2-Chlorotoluene	ug/L	50	49.3	99	70-130	
2-Hexanone	ug/L	100	70.4	70	70-144	
4-Chlorotoluene	ug/L	50	49.3	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	85.0	85	70-140	
Acetone	ug/L	100	87.3	87	50-175	
Benzene	ug/L	50	48.8	98	70-130	
Bromobenzene	ug/L	50	49.1	98	70-130	
Bromochloromethane	ug/L	50	49.8	100	70-130	
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	44.9	90	70-130	
Bromomethane	ug/L	50	34.0	68	54-130	
Carbon tetrachloride	ug/L	50	52.9	106	70-132	
Chlorobenzene	ug/L	50	50.4	101	70-130	
Chloroethane	ug/L	50	41.4	83	64-134	
Chloroform	ug/L	50	48.8	98	70-130	
Chloromethane	ug/L	50	44.8	90	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	70-131	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Dibromochloromethane	ug/L	50	46.6	93	70-130	
Dibromomethane	ug/L	50	47.9	96	70-131	
Dichlorodifluoromethane	ug/L	50	59.2	118	56-130	
Diisopropyl ether	ug/L	50	42.8	86	70-130	
Ethylbenzene	ug/L	50	49.3	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	48.4	97	70-130	
m&p-Xylene	ug/L	100	99.8	100	70-130	
Methyl-tert-butyl ether	ug/L	50	40.7	81	70-130	
Methylene Chloride	ug/L	50	47.9	96	63-130	
Naphthalene	ug/L	50	43.8	88	70-138	
o-Xylene	ug/L	50	48.0	96	70-130	
p-Isopropyltoluene	ug/L	50	49.9	100	70-130	
Styrene	ug/L	50	50.9	102	70-130	
Tetrachloroethene	ug/L	50	51.3	103	70-130	
Toluene	ug/L	50	49.1	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.0	98	70-132	
Trichloroethene	ug/L	50	49.7	99	70-130	
Trichlorofluoromethane	ug/L	50	56.1	112	62-133	
Vinyl acetate	ug/L	100	88.1	88	66-157	
Vinyl chloride	ug/L	50	52.7	105	50-150	
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1345964 1345965

Parameter	Units	92227329004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.1	24.3	110	122	70-130	10	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.7	24.7	113	123	70-130	9	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.1	22.2	111	111	70-130	0	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.2	22.9	111	115	70-130	3	
1,1-Dichloroethane	ug/L	ND	20	20	22.0	23.5	110	118	70-130	7	
1,1-Dichloroethene	ug/L	ND	20	20	22.7	24.4	113	122	70-166	7	
1,1-Dichloropropene	ug/L	ND	20	20	22.2	24.1	111	121	70-130	8	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.0	23.0	105	115	70-130	9	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.1	22.4	111	112	70-130	1	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.0	22.9	105	114	70-130	8	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.9	18.2	94	91	70-130	4	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.6	23.5	113	118	70-130	4	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.6	23.3	108	116	70-130	7	
1,2-Dichloroethane	ug/L	ND	20	20	21.1	22.5	106	112	70-130	6	
1,2-Dichloropropane	ug/L	ND	20	20	20.4	21.7	102	109	70-130	6	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.9	23.6	110	118	70-130	7	
1,3-Dichloropropane	ug/L	ND	20	20	21.0	22.2	105	111	70-130	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.0	24.0	110	120	70-130	9	
2,2-Dichloropropane	ug/L	ND	20	20	21.7	23.5	108	117	70-130	8	
2-Butanone (MEK)	ug/L	ND	40	40	39.3	39.1	98	98	70-130	0	
2-Chlorotoluene	ug/L	ND	20	20	22.0	23.5	110	117	70-130	7	
2-Hexanone	ug/L	ND	40	40	36.6	38.0	92	95	70-130	4	
4-Chlorotoluene	ug/L	ND	20	20	21.7	23.4	109	117	70-130	8	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	41.4	40.2	104	101	70-130	3	
Acetone	ug/L	ND	40	40	41.3	40.6	103	102	70-130	2	
Benzene	ug/L	ND	20	20	22.2	23.6	111	118	70-148	6	
Bromobenzene	ug/L	ND	20	20	21.4	23.1	107	116	70-130	8	
Bromochloromethane	ug/L	ND	20	20	21.8	23.5	109	117	70-130	7	
Bromodichloromethane	ug/L	ND	20	20	21.1	22.8	105	114	70-130	8	
Bromoform	ug/L	ND	20	20	19.8	20.1	99	101	70-130	2	
Bromomethane	ug/L	ND	20	20	20.9	21.2	105	106	70-130	1	
Carbon tetrachloride	ug/L	ND	20	20	22.7	24.7	114	123	70-130	8	
Chlorobenzene	ug/L	ND	20	20	22.3	24.3	111	122	70-146	9	
Chloroethane	ug/L	ND	20	20	21.4	23.1	107	115	70-130	7	
Chloroform	ug/L	0.30J	20	20	22.1	23.7	109	117	70-130	7	
Chloromethane	ug/L	ND	20	20	19.7	21.8	99	109	70-130	10	
cis-1,2-Dichloroethene	ug/L	0.23J	20	20	22.2	24.0	110	119	70-130	8	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.0	21.9	100	109	70-130	9	
Dibromochloromethane	ug/L	ND	20	20	20.4	21.8	102	109	70-130	7	
Dibromomethane	ug/L	ND	20	20	21.7	22.9	109	114	70-130	5	
Dichlorodifluoromethane	ug/L	ND	20	20	26.8	28.3	134	142	70-130	6	M0
Diisopropyl ether	ug/L	ND	20	20	19.2	20.5	96	103	70-130	7	
Ethylbenzene	ug/L	ND	20	20	22.4	24.1	112	121	70-130	7	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.8	26.7	124	133	70-130	7	M0
m&p-Xylene	ug/L	ND	40	40	45.5	48.4	114	121	70-130	6	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.0	19.7	95	99	70-130	4	

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1345964 1345965

Parameter	Units	92227329004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Methylene Chloride	ug/L	ND	20	20	20.9	22.6	105	113	70-130	8	
Naphthalene	ug/L	ND	20	20	20.7	21.6	104	108	70-130	4	
o-Xylene	ug/L	ND	20	20	21.1	23.0	106	115	70-130	8	
p-Isopropyltoluene	ug/L	ND	20	20	22.7	24.1	113	120	70-130	6	
Styrene	ug/L	ND	20	20	22.1	23.9	110	120	70-130	8	
Tetrachloroethene	ug/L	114	20	20	146	141	160	137	70-130	3	M0
Toluene	ug/L	ND	20	20	21.8	23.7	109	118	70-155	8	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.1	23.8	111	119	70-130	7	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.5	21.9	102	110	70-130	7	
Trichloroethene	ug/L	ND	20	20	23.0	24.6	113	121	69-151	7	
Trichlorofluoromethane	ug/L	ND	20	20	26.4	28.0	131	139	70-130	6	M0
Vinyl acetate	ug/L	ND	40	40	39.9	40.7	100	102	70-130	2	
Vinyl chloride	ug/L	ND	20	20	23.8	25.1	119	126	70-130	5	
1,2-Dichloroethane-d4 (S)	%						103	96	70-130		
4-Bromofluorobenzene (S)	%						102	101	70-130		
Toluene-d8 (S)	%						98	98	70-130		

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

QC Batch: MSV/29571 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92228438001, 92228438002, 92228438003, 92228438004, 92228438005, 92228438006, 92228438007

METHOD BLANK: 1348222 | Matrix: Solid
Associated Lab Samples: 92228438001, 92228438002, 92228438003, 92228438004, 92228438005, 92228438006, 92228438007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.9	12/10/14 18:07	
1,1,1-Trichloroethane	ug/kg	ND	5.9	12/10/14 18:07	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.9	12/10/14 18:07	
1,1,2-Trichloroethane	ug/kg	ND	5.9	12/10/14 18:07	
1,1-Dichloroethane	ug/kg	ND	5.9	12/10/14 18:07	
1,1-Dichloroethene	ug/kg	ND	5.9	12/10/14 18:07	
1,1-Dichloropropene	ug/kg	ND	5.9	12/10/14 18:07	
1,2,3-Trichlorobenzene	ug/kg	ND	5.9	12/10/14 18:07	
1,2,3-Trichloropropane	ug/kg	ND	5.9	12/10/14 18:07	
1,2,4-Trichlorobenzene	ug/kg	ND	5.9	12/10/14 18:07	
1,2,4-Trimethylbenzene	ug/kg	ND	5.9	12/10/14 18:07	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.9	12/10/14 18:07	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.9	12/10/14 18:07	
1,2-Dichlorobenzene	ug/kg	ND	5.9	12/10/14 18:07	
1,2-Dichloroethane	ug/kg	ND	5.9	12/10/14 18:07	
1,2-Dichloropropane	ug/kg	ND	5.9	12/10/14 18:07	
1,3,5-Trimethylbenzene	ug/kg	ND	5.9	12/10/14 18:07	
1,3-Dichlorobenzene	ug/kg	ND	5.9	12/10/14 18:07	
1,3-Dichloropropane	ug/kg	ND	5.9	12/10/14 18:07	
1,4-Dichlorobenzene	ug/kg	ND	5.9	12/10/14 18:07	
2,2-Dichloropropane	ug/kg	ND	5.9	12/10/14 18:07	
2-Butanone (MEK)	ug/kg	ND	118	12/10/14 18:07	
2-Chlorotoluene	ug/kg	ND	5.9	12/10/14 18:07	
2-Hexanone	ug/kg	ND	59.0	12/10/14 18:07	
4-Chlorotoluene	ug/kg	ND	5.9	12/10/14 18:07	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	59.0	12/10/14 18:07	
Acetone	ug/kg	ND	118	12/10/14 18:07	
Benzene	ug/kg	ND	5.9	12/10/14 18:07	
Bromobenzene	ug/kg	ND	5.9	12/10/14 18:07	
Bromochloromethane	ug/kg	ND	5.9	12/10/14 18:07	
Bromodichloromethane	ug/kg	ND	5.9	12/10/14 18:07	
Bromoform	ug/kg	ND	5.9	12/10/14 18:07	
Bromomethane	ug/kg	ND	11.8	12/10/14 18:07	
Carbon tetrachloride	ug/kg	ND	5.9	12/10/14 18:07	
Chlorobenzene	ug/kg	ND	5.9	12/10/14 18:07	
Chloroethane	ug/kg	ND	11.8	12/10/14 18:07	
Chloroform	ug/kg	ND	5.9	12/10/14 18:07	
Chloromethane	ug/kg	ND	11.8	12/10/14 18:07	
cis-1,2-Dichloroethene	ug/kg	ND	5.9	12/10/14 18:07	
cis-1,3-Dichloropropene	ug/kg	ND	5.9	12/10/14 18:07	
Dibromochloromethane	ug/kg	ND	5.9	12/10/14 18:07	

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

METHOD BLANK: 1348222 Matrix: Solid
Associated Lab Samples: 92228438001, 92228438002, 92228438003, 92228438004, 92228438005, 92228438006, 92228438007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.9	12/10/14 18:07	
Dichlorodifluoromethane	ug/kg	ND	11.8	12/10/14 18:07	
Diisopropyl ether	ug/kg	ND	5.9	12/10/14 18:07	
Ethylbenzene	ug/kg	ND	5.9	12/10/14 18:07	
Hexachloro-1,3-butadiene	ug/kg	ND	5.9	12/10/14 18:07	
Isopropylbenzene (Cumene)	ug/kg	ND	5.9	12/10/14 18:07	
m&p-Xylene	ug/kg	ND	11.8	12/10/14 18:07	
Methyl-tert-butyl ether	ug/kg	ND	5.9	12/10/14 18:07	
Methylene Chloride	ug/kg	ND	23.6	12/10/14 18:07	
n-Butylbenzene	ug/kg	ND	5.9	12/10/14 18:07	
n-Propylbenzene	ug/kg	ND	5.9	12/10/14 18:07	
Naphthalene	ug/kg	ND	5.9	12/10/14 18:07	
o-Xylene	ug/kg	ND	5.9	12/10/14 18:07	
p-Isopropyltoluene	ug/kg	ND	5.9	12/10/14 18:07	
sec-Butylbenzene	ug/kg	ND	5.9	12/10/14 18:07	
Styrene	ug/kg	ND	5.9	12/10/14 18:07	
tert-Butylbenzene	ug/kg	ND	5.9	12/10/14 18:07	
Tetrachloroethene	ug/kg	ND	5.9	12/10/14 18:07	
Toluene	ug/kg	ND	5.9	12/10/14 18:07	
trans-1,2-Dichloroethene	ug/kg	ND	5.9	12/10/14 18:07	
trans-1,3-Dichloropropene	ug/kg	ND	5.9	12/10/14 18:07	
Trichloroethene	ug/kg	ND	5.9	12/10/14 18:07	
Trichlorofluoromethane	ug/kg	ND	5.9	12/10/14 18:07	
Vinyl acetate	ug/kg	ND	59.0	12/10/14 18:07	
Vinyl chloride	ug/kg	ND	11.8	12/10/14 18:07	
Xylene (Total)	ug/kg	ND	11.8	12/10/14 18:07	
1,2-Dichloroethane-d4 (S)	%	95	70-132	12/10/14 18:07	
4-Bromofluorobenzene (S)	%	103	70-130	12/10/14 18:07	
Toluene-d8 (S)	%	100	70-130	12/10/14 18:07	

LABORATORY CONTROL SAMPLE: 1348223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	47.3	50.0	106	74-137	
1,1,1-Trichloroethane	ug/kg	47.3	49.1	104	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	47.3	44.9	95	72-141	
1,1,2-Trichloroethane	ug/kg	47.3	48.6	103	78-138	
1,1-Dichloroethane	ug/kg	47.3	46.8	99	69-134	
1,1-Dichloroethene	ug/kg	47.3	47.4	100	67-138	
1,1-Dichloropropene	ug/kg	47.3	48.2	102	69-139	
1,2,3-Trichlorobenzene	ug/kg	47.3	51.8	110	70-146	
1,2,3-Trichloropropane	ug/kg	47.3	46.8	99	69-144	
1,2,4-Trichlorobenzene	ug/kg	47.3	51.4	109	68-148	
1,2,4-Trimethylbenzene	ug/kg	47.3	50.4	107	74-137	

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

LABORATORY CONTROL SAMPLE: 1348223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	47.3	48.0	102	65-140	
1,2-Dibromoethane (EDB)	ug/kg	47.3	49.1	104	77-135	
1,2-Dichlorobenzene	ug/kg	47.3	48.9	103	77-141	
1,2-Dichloroethane	ug/kg	47.3	44.1	93	65-137	
1,2-Dichloropropane	ug/kg	47.3	46.2	98	72-136	
1,3,5-Trimethylbenzene	ug/kg	47.3	49.8	105	76-133	
1,3-Dichlorobenzene	ug/kg	47.3	48.9	104	74-138	
1,3-Dichloropropane	ug/kg	47.3	48.7	103	71-139	
1,4-Dichlorobenzene	ug/kg	47.3	48.5	103	76-138	
2,2-Dichloropropane	ug/kg	47.3	49.4	105	68-137	
2-Butanone (MEK)	ug/kg	94.5	82.8J	88	58-147	
2-Chlorotoluene	ug/kg	47.3	48.6	103	73-139	
2-Hexanone	ug/kg	94.5	95.7	101	62-145	
4-Chlorotoluene	ug/kg	47.3	48.2	102	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	94.5	96.6	102	64-149	
Acetone	ug/kg	94.5	68.1J	72	53-153	
Benzene	ug/kg	47.3	48.3	102	73-135	
Bromobenzene	ug/kg	47.3	50.3	106	75-133	
Bromochloromethane	ug/kg	47.3	50.4	107	73-134	
Bromodichloromethane	ug/kg	47.3	48.9	103	71-135	
Bromoform	ug/kg	47.3	52.3	111	66-141	
Bromomethane	ug/kg	47.3	58.7	124	53-160	
Carbon tetrachloride	ug/kg	47.3	51.8	110	60-145	
Chlorobenzene	ug/kg	47.3	50.0	106	78-130	
Chloroethane	ug/kg	47.3	49.0	104	64-149	
Chloroform	ug/kg	47.3	48.7	103	70-134	
Chloromethane	ug/kg	47.3	47.2	100	52-150	
cis-1,2-Dichloroethene	ug/kg	47.3	48.7	103	70-133	
cis-1,3-Dichloropropene	ug/kg	47.3	49.0	104	68-134	
Dibromochloromethane	ug/kg	47.3	51.7	109	71-138	
Dibromomethane	ug/kg	47.3	49.1	104	74-130	
Dichlorodifluoromethane	ug/kg	47.3	50.4	107	40-160	
Diisopropyl ether	ug/kg	47.3	41.3	87	69-141	
Ethylbenzene	ug/kg	47.3	49.7	105	75-133	
Hexachloro-1,3-butadiene	ug/kg	47.3	52.4	111	68-143	
Isopropylbenzene (Cumene)	ug/kg	47.3	50.6	107	76-143	
m&p-Xylene	ug/kg	94.5	97.2	103	75-136	
Methyl-tert-butyl ether	ug/kg	47.3	43.9	93	68-144	
Methylene Chloride	ug/kg	47.3	44.8	95	45-154	
n-Butylbenzene	ug/kg	47.3	49.4	104	72-137	
n-Propylbenzene	ug/kg	47.3	48.4	102	76-136	
Naphthalene	ug/kg	47.3	53.5	113	68-151	
o-Xylene	ug/kg	47.3	48.8	103	76-141	
p-Isopropyltoluene	ug/kg	47.3	49.7	105	76-140	
sec-Butylbenzene	ug/kg	47.3	49.0	104	79-139	
Styrene	ug/kg	47.3	51.1	108	79-137	
tert-Butylbenzene	ug/kg	47.3	46.0	97	74-143	

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

LABORATORY CONTROL SAMPLE: 1348223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	47.3	46.4	98	71-138	
Toluene	ug/kg	47.3	48.9	104	74-131	
trans-1,2-Dichloroethene	ug/kg	47.3	46.7	99	67-135	
trans-1,3-Dichloropropene	ug/kg	47.3	48.4	102	65-146	
Trichloroethene	ug/kg	47.3	51.2	108	67-135	
Trichlorofluoromethane	ug/kg	47.3	48.7	103	59-144	
Vinyl acetate	ug/kg	94.5	66.6	70	40-160	F3
Vinyl chloride	ug/kg	47.3	48.5	103	56-141	
Xylene (Total)	ug/kg	142	146	103	76-137	
1,2-Dichloroethane-d4 (S)	%			92	70-132	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1348898

Parameter	Units	92228401002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	21.1	26.2	124	70-130	
1,1,1-Trichloroethane	ug/kg	ND	21.1	23.3	110	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	21.1	23.0	109	70-130	
1,1,2-Trichloroethane	ug/kg	ND	21.1	24.1	114	70-130	
1,1-Dichloroethane	ug/kg	ND	21.1	23.8	113	70-130	
1,1-Dichloroethene	ug/kg	ND	21.1	24.0	114	49-180	
1,1-Dichloropropene	ug/kg	ND	21.1	22.6	107	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	21.1	20.1	95	70-130	
1,2,3-Trichloropropane	ug/kg	ND	21.1	27.0	128	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	21.1	21.6	102	70-130	
1,2,4-Trimethylbenzene	ug/kg	ND	21.1	36.8	174	70-130	M1
1,2-Dibromo-3-chloropropane	ug/kg	ND	21.1	31.2	148	70-130	M1
1,2-Dibromoethane (EDB)	ug/kg	ND	21.1	28.8	136	70-130	M1
1,2-Dichlorobenzene	ug/kg	ND	21.1	28.8	136	70-130	M1
1,2-Dichloroethane	ug/kg	ND	21.1	22.7	107	70-130	
1,2-Dichloropropane	ug/kg	ND	21.1	23.0	109	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	21.1	37.8	179	70-130	M1
1,3-Dichlorobenzene	ug/kg	ND	21.1	31.8	151	70-130	M1
1,3-Dichloropropane	ug/kg	ND	21.1	28.2	133	70-130	M1
1,4-Dichlorobenzene	ug/kg	ND	21.1	30.9	146	70-130	M1
2,2-Dichloropropane	ug/kg	ND	21.1	23.3	110	70-130	
2-Butanone (MEK)	ug/kg	ND	42.2	42.7J	101	70-130	
2-Chlorotoluene	ug/kg	ND	21.1	41.1	195	70-130	M1
2-Hexanone	ug/kg	ND	42.2	46.5J	110	70-130	
4-Chlorotoluene	ug/kg	ND	21.1	34.4	163	70-130	M1
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	42.2	45.5J	108	70-130	
Acetone	ug/kg	ND	42.2	61.8J	115	70-130	
Benzene	ug/kg	ND	21.1	24.3	115	50-166	
Bromobenzene	ug/kg	ND	21.1	36.2	171	70-130	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

MATRIX SPIKE SAMPLE: 1348898

Parameter	Units	92228401002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromochloromethane	ug/kg	ND	21.1	27.0	128	70-130	
Bromodichloromethane	ug/kg	ND	21.1	23.2	110	70-130	
Bromoform	ug/kg	ND	21.1	25.1	119	70-130	
Bromomethane	ug/kg	ND	21.1	31.3	149	70-130	M1
Carbon tetrachloride	ug/kg	ND	21.1	25.6	121	70-130	
Chlorobenzene	ug/kg	ND	21.1	26.2	124	43-169	
Chloroethane	ug/kg	ND	21.1	26.5	126	70-130	
Chloroform	ug/kg	ND	21.1	23.8	113	70-130	
Chloromethane	ug/kg	ND	21.1	24.0	114	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	21.1	24.4	116	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	21.1	22.6	107	70-130	
Dibromochloromethane	ug/kg	ND	21.1	27.2	129	70-130	
Dibromomethane	ug/kg	ND	21.1	25.2	120	70-130	
Dichlorodifluoromethane	ug/kg	ND	21.1	25.7	122	70-130	
Diisopropyl ether	ug/kg	ND	21.1	20.9	99	70-130	
Ethylbenzene	ug/kg	ND	21.1	27.5	130	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	21.1	33.6	159	70-130	M1
Isopropylbenzene (Cumene)	ug/kg	ND	21.1	27.4	130	70-130	
m&p-Xylene	ug/kg	ND	42.2	54.1	128	70-130	
Methyl-tert-butyl ether	ug/kg	ND	21.1	22.9	109	70-130	
Methylene Chloride	ug/kg	ND	21.1	23.8	113	70-130	
n-Butylbenzene	ug/kg	ND	21.1	36.7	174	70-130	M1
n-Propylbenzene	ug/kg	ND	21.1	39.7	188	70-130	M1
Naphthalene	ug/kg	ND	21.1	20.9	99	70-130	
o-Xylene	ug/kg	ND	21.1	25.5	121	70-130	
p-Isopropyltoluene	ug/kg	ND	21.1	37.8	179	70-130	M1
sec-Butylbenzene	ug/kg	ND	21.1	40.3	191	70-130	M1
Styrene	ug/kg	ND	21.1	23.9	113	70-130	
tert-Butylbenzene	ug/kg	ND	21.1	36.7	174	70-130	M1
Tetrachloroethene	ug/kg	ND	21.1	27.0	128	70-130	
Toluene	ug/kg	ND	21.1	24.1	113	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	21.1	23.7	112	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	21.1	21.6	102	70-130	
Trichloroethene	ug/kg	ND	21.1	24.5	116	49-167	
Trichlorofluoromethane	ug/kg	ND	21.1	24.2	115	70-130	
Vinyl acetate	ug/kg	ND	42.2	19.4J	46	70-130	M1
Vinyl chloride	ug/kg	ND	21.1	24.3	115	70-130	
1,2-Dichloroethane-d4 (S)	%				93	70-132	
4-Bromofluorobenzene (S)	%				83	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 1348897

Parameter	Units	92228401001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/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

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

SAMPLE DUPLICATE: 1348897

Parameter	Units	92228401001 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	16.7J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

SAMPLE DUPLICATE: 1348897

Parameter	Units	92228401001 Result	Dup Result	RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	2.8J		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	107	115	6	
4-Bromofluorobenzene (S)	%	81	75	8	
Toluene-d8 (S)	%	94	90	4	1g

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QUALITY CONTROL DATA

Project: Trex Properties Charlotte
Pace Project No.: 92228438

QC Batch: PMST/7327 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92228438001, 92228438002, 92228438003, 92228438004, 92228438005, 92228438006, 92228438007

SAMPLE DUPLICATE: 1347642

Parameter	Units	92228438001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	18.1	16.2	11	

SAMPLE DUPLICATE: 1347643

Parameter	Units	92228502005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	19.8	18.2	8	

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QUALIFIERS

Project: Trex Properties Charlotte
Pace Project No.: 92228438

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.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g	The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.
F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Trex Properties Charlotte
Pace Project No.: 92228438

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92228438008	**Rinsate 12/1/14**	EPA 8260	MSV/29527		
92228438009	**Rinsate 12/3/14**	EPA 8260	MSV/29527		
92228438010	**Rinsate 12/4/14**	EPA 8260	MSV/29527		
92228438001	**SB-21-0.5'**	EPA 8260	MSV/29571		
92228438002	**SB-21-2'**	EPA 8260	MSV/29571		
92228438003	**SB-21-34'**	EPA 8260	MSV/29571		
92228438004	**SB-21-67'**	EPA 8260	MSV/29571		
92228438005	**SB-22-0.5'**	EPA 8260	MSV/29571		
92228438006	**SB-22-60'**	EPA 8260	MSV/29571		
92228438007	**SB-22-63'**	EPA 8260	MSV/29571		
92228438001	**SB-21-0.5'**	ASTM D2974-87	PMST/7327		
92228438002	**SB-21-2'**	ASTM D2974-87	PMST/7327		
92228438003	**SB-21-34'**	ASTM D2974-87	PMST/7327		
92228438004	**SB-21-67'**	ASTM D2974-87	PMST/7327		
92228438005	**SB-22-0.5'**	ASTM D2974-87	PMST/7327		
92228438006	**SB-22-60'**	ASTM D2974-87	PMST/7327		
92228438007	**SB-22-63'**	ASTM D2974-87	PMST/7327		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: September 22, 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.15**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Tvex / Env. Liability

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1401** No Correction

Corrected Cooler Temp.: 6.0 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Comments:

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 12/5/14

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. 12/5/14
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6. 12/5/14
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. HCl bottles say 12/11/14
-Includes date/time/ID/Analysis Matrix:_____		
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	
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: _____

SCURF Review: JY **Date:** 12/5/14

SRF Review: AMB **Date:** 12-7-14

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)

WO#: 92228438

92228438

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1887498

Section A Required Client Information:

Company: Trex LLC.
Address: 1650 Des Peres Rd
St Louis MO 63131
Email To: Gray.withers@aveneel
Phone: 919 201 5768 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Chris Fay
Copy To:
Purchase Order No.:
Project Name: Trex Properties Charlotte
Project Number: 03130430.01

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: NC

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92228438
1	SB-21-0.5'	SL				12/1	1330	NA	6	X					X	X		X			001
2	SB-21-2'	↓				↓	1600	↓	6	X					X	X		X			002
3	SB-21-34'					↓	1545		6	X					X	X		X			003
4	SB-21-67'					12/3	1230		6	X					X	X		X			004
5	SB-22-0.5'					12/3	1400		6	X					X	X		X			005
6	SB-22-60'					12/4	1020		6	X					X	X		X			006
7	SB-22-63'	↓				12/4	1030		6	X					X	X		X			007
8	Rinsate 12/1/14	WT				12/1	1610		5				X					X			008
9	Rinsate 12/3/14	↓				12/3	1645		3				X					X			009
10	Rinsate 12/4/14	↓				12/4	1045	↓	3				X					X			010
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Sampler	12/5/14	1100	[signature] Pace	12/5/14	1100	
	[signature] Pace	12/5/14	1255	[signature]	12/5/14	12:55	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Fay

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/5/14

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

*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.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 30, 2014

David Craig
EnviroAnalytics Group
1650 Des Peres Road
Suite 303
Saint Louis, MO 63131

RE: Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Dear David Craig:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 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.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Kevin Godwin
kevin.godwin@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-20B **Lab ID: 92229483001** Collected: 12/12/14 08:30 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	3120	125		12/19/14 04:35	67-64-1	
Benzene	ND	ug/L	125	125		12/19/14 04:35	71-43-2	
Bromobenzene	ND	ug/L	125	125		12/19/14 04:35	108-86-1	
Bromochloromethane	ND	ug/L	125	125		12/19/14 04:35	74-97-5	
Bromodichloromethane	ND	ug/L	125	125		12/19/14 04:35	75-27-4	
Bromoform	ND	ug/L	125	125		12/19/14 04:35	75-25-2	
Bromomethane	ND	ug/L	250	125		12/19/14 04:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	625	125		12/19/14 04:35	78-93-3	
Carbon tetrachloride	ND	ug/L	125	125		12/19/14 04:35	56-23-5	
Chlorobenzene	ND	ug/L	125	125		12/19/14 04:35	108-90-7	
Chloroethane	ND	ug/L	125	125		12/19/14 04:35	75-00-3	
Chloroform	ND	ug/L	125	125		12/19/14 04:35	67-66-3	
Chloromethane	ND	ug/L	125	125		12/19/14 04:35	74-87-3	
2-Chlorotoluene	ND	ug/L	125	125		12/19/14 04:35	95-49-8	
4-Chlorotoluene	ND	ug/L	125	125		12/19/14 04:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	250	125		12/19/14 04:35	96-12-8	
Dibromochloromethane	ND	ug/L	125	125		12/19/14 04:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	125	125		12/19/14 04:35	106-93-4	
Dibromomethane	ND	ug/L	125	125		12/19/14 04:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	125	125		12/19/14 04:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	125	125		12/19/14 04:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	125	125		12/19/14 04:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	125	125		12/19/14 04:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	125	125		12/19/14 04:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	125	125		12/19/14 04:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	125	125		12/19/14 04:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	125	125		12/19/14 04:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	125	125		12/19/14 04:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	125	125		12/19/14 04:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	125	125		12/19/14 04:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	125	125		12/19/14 04:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	125	125		12/19/14 04:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	125	125		12/19/14 04:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	125	125		12/19/14 04:35	10061-02-6	
Diisopropyl ether	ND	ug/L	125	125		12/19/14 04:35	108-20-3	
Ethylbenzene	ND	ug/L	125	125		12/19/14 04:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	125	125		12/19/14 04:35	87-68-3	
2-Hexanone	ND	ug/L	625	125		12/19/14 04:35	591-78-6	
p-Isopropyltoluene	ND	ug/L	125	125		12/19/14 04:35	99-87-6	
Methylene Chloride	ND	ug/L	250	125		12/19/14 04:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	625	125		12/19/14 04:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	125	125		12/19/14 04:35	1634-04-4	
Naphthalene	ND	ug/L	125	125		12/19/14 04:35	91-20-3	
Styrene	ND	ug/L	125	125		12/19/14 04:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	125	125		12/19/14 04:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	125	125		12/19/14 04:35	79-34-5	
Tetrachloroethene	ND	ug/L	125	125		12/19/14 04:35	127-18-4	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-20B **Lab ID: 92229483001** Collected: 12/12/14 08:30 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	125	125		12/19/14 04:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	125	125		12/19/14 04:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	125	125		12/19/14 04:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	125	125		12/19/14 04:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	125	125		12/19/14 04:35	79-00-5	
Trichloroethene	**16200**	ug/L	125	125		12/19/14 04:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	125	125		12/19/14 04:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	125	125		12/19/14 04:35	96-18-4	
Vinyl acetate	ND	ug/L	250	125		12/19/14 04:35	108-05-4	
Vinyl chloride	ND	ug/L	125	125		12/19/14 04:35	75-01-4	
Xylene (Total)	ND	ug/L	250	125		12/19/14 04:35	1330-20-7	
m&p-Xylene	ND	ug/L	250	125		12/19/14 04:35	179601-23-1	
o-Xylene	ND	ug/L	125	125		12/19/14 04:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	111	%	70-130	125		12/19/14 04:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	125		12/19/14 04:35	17060-07-0	
Toluene-d8 (S)	94	%	70-130	125		12/19/14 04:35	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-21A **Lab ID: 92229483002** Collected: 12/11/14 12:25 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500	20		12/19/14 05:09	67-64-1	
Benzene	ND	ug/L	20.0	20		12/19/14 05:09	71-43-2	
Bromobenzene	ND	ug/L	20.0	20		12/19/14 05:09	108-86-1	
Bromochloromethane	ND	ug/L	20.0	20		12/19/14 05:09	74-97-5	
Bromodichloromethane	ND	ug/L	20.0	20		12/19/14 05:09	75-27-4	
Bromoform	ND	ug/L	20.0	20		12/19/14 05:09	75-25-2	
Bromomethane	ND	ug/L	40.0	20		12/19/14 05:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	20		12/19/14 05:09	78-93-3	
Carbon tetrachloride	ND	ug/L	20.0	20		12/19/14 05:09	56-23-5	
Chlorobenzene	ND	ug/L	20.0	20		12/19/14 05:09	108-90-7	
Chloroethane	ND	ug/L	20.0	20		12/19/14 05:09	75-00-3	
Chloroform	ND	ug/L	20.0	20		12/19/14 05:09	67-66-3	
Chloromethane	ND	ug/L	20.0	20		12/19/14 05:09	74-87-3	
2-Chlorotoluene	ND	ug/L	20.0	20		12/19/14 05:09	95-49-8	
4-Chlorotoluene	ND	ug/L	20.0	20		12/19/14 05:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	20		12/19/14 05:09	96-12-8	
Dibromochloromethane	ND	ug/L	20.0	20		12/19/14 05:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	20		12/19/14 05:09	106-93-4	
Dibromomethane	ND	ug/L	20.0	20		12/19/14 05:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	20.0	20		12/19/14 05:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	20.0	20		12/19/14 05:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	20.0	20		12/19/14 05:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	20.0	20		12/19/14 05:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	20.0	20		12/19/14 05:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	20		12/19/14 05:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	20.0	20		12/19/14 05:09	75-35-4	
cis-1,2-Dichloroethene	**137**	ug/L	20.0	20		12/19/14 05:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	20		12/19/14 05:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	20.0	20		12/19/14 05:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	20.0	20		12/19/14 05:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	20		12/19/14 05:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	20.0	20		12/19/14 05:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	20		12/19/14 05:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	20		12/19/14 05:09	10061-02-6	
Diisopropyl ether	ND	ug/L	20.0	20		12/19/14 05:09	108-20-3	
Ethylbenzene	ND	ug/L	20.0	20		12/19/14 05:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	20.0	20		12/19/14 05:09	87-68-3	
2-Hexanone	ND	ug/L	100	20		12/19/14 05:09	591-78-6	
p-Isopropyltoluene	ND	ug/L	20.0	20		12/19/14 05:09	99-87-6	
Methylene Chloride	ND	ug/L	40.0	20		12/19/14 05:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	20		12/19/14 05:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	20.0	20		12/19/14 05:09	1634-04-4	
Naphthalene	ND	ug/L	20.0	20		12/19/14 05:09	91-20-3	
Styrene	ND	ug/L	20.0	20		12/19/14 05:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	20		12/19/14 05:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	20		12/19/14 05:09	79-34-5	
Tetrachloroethene	**1350**	ug/L	20.0	20		12/19/14 05:09	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-21A **Lab ID: 92229483002** Collected: 12/11/14 12:25 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	20.0	20		12/19/14 05:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	20.0	20		12/19/14 05:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	20.0	20		12/19/14 05:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	20.0	20		12/19/14 05:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	20		12/19/14 05:09	79-00-5	
Trichloroethene	**2190**	ug/L	20.0	20		12/19/14 05:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	20.0	20		12/19/14 05:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	20		12/19/14 05:09	96-18-4	
Vinyl acetate	ND	ug/L	40.0	20		12/19/14 05:09	108-05-4	
Vinyl chloride	ND	ug/L	20.0	20		12/19/14 05:09	75-01-4	
Xylene (Total)	ND	ug/L	40.0	20		12/19/14 05:09	1330-20-7	
m&p-Xylene	ND	ug/L	40.0	20		12/19/14 05:09	179601-23-1	
o-Xylene	ND	ug/L	20.0	20		12/19/14 05:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	20		12/19/14 05:09	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	20		12/19/14 05:09	17060-07-0	
Toluene-d8 (S)	97	%	70-130	20		12/19/14 05:09	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-21B **Lab ID: 92229483003** Collected: 12/11/14 12:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	2500	100		12/19/14 04:52	67-64-1	
Benzene	ND	ug/L	100	100		12/19/14 04:52	71-43-2	
Bromobenzene	ND	ug/L	100	100		12/19/14 04:52	108-86-1	
Bromochloromethane	ND	ug/L	100	100		12/19/14 04:52	74-97-5	
Bromodichloromethane	ND	ug/L	100	100		12/19/14 04:52	75-27-4	
Bromoform	ND	ug/L	100	100		12/19/14 04:52	75-25-2	
Bromomethane	ND	ug/L	200	100		12/19/14 04:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	500	100		12/19/14 04:52	78-93-3	
Carbon tetrachloride	ND	ug/L	100	100		12/19/14 04:52	56-23-5	
Chlorobenzene	ND	ug/L	100	100		12/19/14 04:52	108-90-7	
Chloroethane	ND	ug/L	100	100		12/19/14 04:52	75-00-3	
Chloroform	ND	ug/L	100	100		12/19/14 04:52	67-66-3	
Chloromethane	ND	ug/L	100	100		12/19/14 04:52	74-87-3	
2-Chlorotoluene	ND	ug/L	100	100		12/19/14 04:52	95-49-8	
4-Chlorotoluene	ND	ug/L	100	100		12/19/14 04:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	200	100		12/19/14 04:52	96-12-8	
Dibromochloromethane	ND	ug/L	100	100		12/19/14 04:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	100	100		12/19/14 04:52	106-93-4	
Dibromomethane	ND	ug/L	100	100		12/19/14 04:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	100	100		12/19/14 04:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	100	100		12/19/14 04:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	100		12/19/14 04:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	100		12/19/14 04:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	100	100		12/19/14 04:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	100	100		12/19/14 04:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	100		12/19/14 04:52	75-35-4	
cis-1,2-Dichloroethene	**250**	ug/L	100	100		12/19/14 04:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	100		12/19/14 04:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	100	100		12/19/14 04:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	100	100		12/19/14 04:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	100	100		12/19/14 04:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	100	100		12/19/14 04:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	100	100		12/19/14 04:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	100	100		12/19/14 04:52	10061-02-6	
Diisopropyl ether	ND	ug/L	100	100		12/19/14 04:52	108-20-3	
Ethylbenzene	ND	ug/L	100	100		12/19/14 04:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	100	100		12/19/14 04:52	87-68-3	
2-Hexanone	ND	ug/L	500	100		12/19/14 04:52	591-78-6	
p-Isopropyltoluene	ND	ug/L	100	100		12/19/14 04:52	99-87-6	
Methylene Chloride	ND	ug/L	200	100		12/19/14 04:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500	100		12/19/14 04:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	100	100		12/19/14 04:52	1634-04-4	
Naphthalene	ND	ug/L	100	100		12/19/14 04:52	91-20-3	
Styrene	ND	ug/L	100	100		12/19/14 04:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	100		12/19/14 04:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	100		12/19/14 04:52	79-34-5	
Tetrachloroethene	**11900**	ug/L	100	100		12/19/14 04:52	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-21B **Lab ID: 92229483003** Collected: 12/11/14 12:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	100	100		12/19/14 04:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	100		12/19/14 04:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	100		12/19/14 04:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	100	100		12/19/14 04:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	100		12/19/14 04:52	79-00-5	
Trichloroethene	**15100**	ug/L	100	100		12/19/14 04:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	100		12/19/14 04:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	100	100		12/19/14 04:52	96-18-4	
Vinyl acetate	ND	ug/L	200	100		12/19/14 04:52	108-05-4	
Vinyl chloride	ND	ug/L	100	100		12/19/14 04:52	75-01-4	
Xylene (Total)	ND	ug/L	200	100		12/19/14 04:52	1330-20-7	
m&p-Xylene	ND	ug/L	200	100		12/19/14 04:52	179601-23-1	
o-Xylene	ND	ug/L	100	100		12/19/14 04:52	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	100		12/19/14 04:52	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	100		12/19/14 04:52	17060-07-0	
Toluene-d8 (S)	101	%	70-130	100		12/19/14 04:52	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-22A **Lab ID: 92229483004** Collected: 12/11/14 11:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/19/14 03:10	67-64-1	
Benzene	ND	ug/L	1.0	1		12/19/14 03:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/19/14 03:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/19/14 03:10	74-97-5	
Bromodichloromethane	**1.1**	ug/L	1.0	1		12/19/14 03:10	75-27-4	
Bromoform	**3.0**	ug/L	1.0	1		12/19/14 03:10	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/19/14 03:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/19/14 03:10	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/19/14 03:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/19/14 03:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/19/14 03:10	75-00-3	
Chloroform	**10.6**	ug/L	1.0	1		12/19/14 03:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/19/14 03:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/19/14 03:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/19/14 03:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/19/14 03:10	96-12-8	
Dibromochloromethane	**2.9**	ug/L	1.0	1		12/19/14 03:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/19/14 03:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/19/14 03:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/19/14 03:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/19/14 03:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/19/14 03:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/19/14 03:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/14 03:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/14 03:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/19/14 03:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/19/14 03:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/19/14 03:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/19/14 03:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/14 03:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/14 03:10	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/19/14 03:10	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/19/14 03:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/19/14 03:10	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/19/14 03:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/19/14 03:10	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/19/14 03:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/19/14 03:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/19/14 03:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/19/14 03:10	91-20-3	
Styrene	ND	ug/L	1.0	1		12/19/14 03:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/14 03:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/14 03:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/19/14 03:10	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-22A **Lab ID: 92229483004** Collected: 12/11/14 11:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/19/14 03:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/19/14 03:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/19/14 03:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/19/14 03:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/19/14 03:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/19/14 03:10	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/19/14 03:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/19/14 03:10	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/19/14 03:10	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/19/14 03:10	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/19/14 03:10	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/19/14 03:10	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		12/19/14 03:10	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/19/14 03:10	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-22B **Lab ID: 92229483005** Collected: 12/11/14 10:15 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/19/14 03:27	67-64-1	
Benzene	ND	ug/L	1.0	1		12/19/14 03:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/19/14 03:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/19/14 03:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/19/14 03:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/19/14 03:27	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/19/14 03:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/19/14 03:27	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/19/14 03:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/19/14 03:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/19/14 03:27	75-00-3	
Chloroform	**9.7**	ug/L	1.0	1		12/19/14 03:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/19/14 03:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/19/14 03:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/19/14 03:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/19/14 03:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/19/14 03:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/19/14 03:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/19/14 03:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/19/14 03:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/19/14 03:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/19/14 03:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/19/14 03:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/14 03:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/14 03:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/19/14 03:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/19/14 03:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/19/14 03:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/19/14 03:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/14 03:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/14 03:27	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/19/14 03:27	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/19/14 03:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/19/14 03:27	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/19/14 03:27	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/19/14 03:27	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/19/14 03:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/19/14 03:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/19/14 03:27	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/19/14 03:27	91-20-3	
Styrene	ND	ug/L	1.0	1		12/19/14 03:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/14 03:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/14 03:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/19/14 03:27	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-22B **Lab ID: 92229483005** Collected: 12/11/14 10:15 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/19/14 03:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/19/14 03:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/19/14 03:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/19/14 03:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/19/14 03:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/19/14 03:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/19/14 03:27	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/19/14 03:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/19/14 03:27	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/19/14 03:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/19/14 03:27	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/19/14 03:27	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/19/14 03:27	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		12/19/14 03:27	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/19/14 03:27	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: RINSATE 12/08/14 **Lab ID: 92229483006** Collected: 12/08/14 17:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/20/14 04:23	67-64-1	
Benzene	ND	ug/L	1.0	1		12/20/14 04:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/20/14 04:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/20/14 04:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/20/14 04:23	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/20/14 04:23	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/20/14 04:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/20/14 04:23	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/20/14 04:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/20/14 04:23	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/20/14 04:23	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/20/14 04:23	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/20/14 04:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/20/14 04:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/20/14 04:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/20/14 04:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/20/14 04:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/20/14 04:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/20/14 04:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/20/14 04:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/20/14 04:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/20/14 04:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/20/14 04:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/20/14 04:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/20/14 04:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/20/14 04:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/20/14 04:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/20/14 04:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/20/14 04:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/20/14 04:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/20/14 04:23	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/20/14 04:23	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/20/14 04:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/20/14 04:23	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/20/14 04:23	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/20/14 04:23	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/20/14 04:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/20/14 04:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/20/14 04:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/20/14 04:23	91-20-3	
Styrene	ND	ug/L	1.0	1		12/20/14 04:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/20/14 04:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/20/14 04:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/20/14 04:23	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: RINSATE 12/08/14 **Lab ID: 92229483006** Collected: 12/08/14 17:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/20/14 04:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/20/14 04:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/20/14 04:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/20/14 04:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/20/14 04:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/20/14 04:23	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/20/14 04:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/20/14 04:23	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/20/14 04:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/20/14 04:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/20/14 04:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		12/20/14 04:23	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130	1		12/20/14 04:23	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/20/14 04:23	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: RINSATE 12/09/14 **Lab ID: 92229483007** Collected: 12/09/14 16:15 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/20/14 04:40	67-64-1	
Benzene	ND	ug/L	1.0	1		12/20/14 04:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/20/14 04:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/20/14 04:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/20/14 04:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/20/14 04:40	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/20/14 04:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/20/14 04:40	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/20/14 04:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/20/14 04:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/20/14 04:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/20/14 04:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/20/14 04:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/20/14 04:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/20/14 04:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/20/14 04:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/20/14 04:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/20/14 04:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/20/14 04:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/20/14 04:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/20/14 04:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/20/14 04:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/20/14 04:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/20/14 04:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/20/14 04:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/20/14 04:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/20/14 04:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/20/14 04:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/20/14 04:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/20/14 04:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/20/14 04:40	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/20/14 04:40	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/20/14 04:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/20/14 04:40	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/20/14 04:40	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/20/14 04:40	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/20/14 04:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/20/14 04:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/20/14 04:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/20/14 04:40	91-20-3	
Styrene	ND	ug/L	1.0	1		12/20/14 04:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/20/14 04:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/20/14 04:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/20/14 04:40	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: RINSATE 12/09/14 **Lab ID: 92229483007** Collected: 12/09/14 16:15 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/20/14 04:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/20/14 04:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/20/14 04:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/20/14 04:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/20/14 04:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/20/14 04:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/20/14 04:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/20/14 04:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/20/14 04:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/20/14 04:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/20/14 04:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		12/20/14 04:40	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130	1		12/20/14 04:40	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		12/20/14 04:40	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: RINSATE 12/11/14 **Lab ID: 92229483008** Collected: 12/11/14 12:45 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/20/14 04:57	67-64-1	
Benzene	ND	ug/L	1.0	1		12/20/14 04:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/20/14 04:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/20/14 04:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/20/14 04:57	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/20/14 04:57	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/20/14 04:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/20/14 04:57	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/20/14 04:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/20/14 04:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/20/14 04:57	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/20/14 04:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/20/14 04:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/20/14 04:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/20/14 04:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/20/14 04:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/20/14 04:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/20/14 04:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/20/14 04:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/20/14 04:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/20/14 04:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/20/14 04:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/20/14 04:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/20/14 04:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/20/14 04:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/20/14 04:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/20/14 04:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/20/14 04:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/20/14 04:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/20/14 04:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/20/14 04:57	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/20/14 04:57	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/20/14 04:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/20/14 04:57	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/20/14 04:57	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/20/14 04:57	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/20/14 04:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/20/14 04:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/20/14 04:57	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/20/14 04:57	91-20-3	
Styrene	ND	ug/L	1.0	1		12/20/14 04:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/20/14 04:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/20/14 04:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/20/14 04:57	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: RINSATE 12/11/14 **Lab ID: 92229483008** Collected: 12/11/14 12:45 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/20/14 04:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/20/14 04:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/20/14 04:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/20/14 04:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/20/14 04:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/20/14 04:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/20/14 04:57	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/20/14 04:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/20/14 04:57	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/20/14 04:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/20/14 04:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/20/14 04:57	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		12/20/14 04:57	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130	1		12/20/14 04:57	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/20/14 04:57	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: RINSATE 12/12/14 **Lab ID: 92229483009** Collected: 12/12/14 09:30 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/20/14 05:14	67-64-1	
Benzene	ND	ug/L	1.0	1		12/20/14 05:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/20/14 05:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/20/14 05:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/20/14 05:14	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/20/14 05:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/20/14 05:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/20/14 05:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/20/14 05:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/20/14 05:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/20/14 05:14	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/20/14 05:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/20/14 05:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/20/14 05:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/20/14 05:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/20/14 05:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/20/14 05:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/20/14 05:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/20/14 05:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 05:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 05:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/20/14 05:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/20/14 05:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/20/14 05:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/20/14 05:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/20/14 05:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/20/14 05:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/20/14 05:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/20/14 05:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/20/14 05:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/20/14 05:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/20/14 05:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/20/14 05:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/20/14 05:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/20/14 05:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/20/14 05:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/20/14 05:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/20/14 05:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/20/14 05:14	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/20/14 05:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/20/14 05:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/20/14 05:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/20/14 05:14	91-20-3	
Styrene	ND	ug/L	1.0	1		12/20/14 05:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/20/14 05:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/20/14 05:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/20/14 05:14	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: RINSATE 12/12/14 **Lab ID: 92229483009** Collected: 12/12/14 09:30 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/20/14 05:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/20/14 05:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/20/14 05:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/20/14 05:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/20/14 05:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/20/14 05:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/20/14 05:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/20/14 05:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/20/14 05:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/20/14 05:14	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/20/14 05:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/20/14 05:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/20/14 05:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		12/20/14 05:14	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		12/20/14 05:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/20/14 05:14	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-20A **Lab ID: 92229483010** Collected: 12/12/14 09:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	62500	2500		12/20/14 06:05	67-64-1	
Benzene	ND	ug/L	2500	2500		12/20/14 06:05	71-43-2	
Bromobenzene	ND	ug/L	2500	2500		12/20/14 06:05	108-86-1	
Bromochloromethane	ND	ug/L	2500	2500		12/20/14 06:05	74-97-5	
Bromodichloromethane	ND	ug/L	2500	2500		12/20/14 06:05	75-27-4	
Bromoform	ND	ug/L	2500	2500		12/20/14 06:05	75-25-2	
Bromomethane	ND	ug/L	5000	2500		12/20/14 06:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	12500	2500		12/20/14 06:05	78-93-3	
Carbon tetrachloride	ND	ug/L	2500	2500		12/20/14 06:05	56-23-5	
Chlorobenzene	ND	ug/L	2500	2500		12/20/14 06:05	108-90-7	
Chloroethane	ND	ug/L	2500	2500		12/20/14 06:05	75-00-3	
Chloroform	ND	ug/L	2500	2500		12/20/14 06:05	67-66-3	
Chloromethane	ND	ug/L	2500	2500		12/20/14 06:05	74-87-3	
2-Chlorotoluene	ND	ug/L	2500	2500		12/20/14 06:05	95-49-8	
4-Chlorotoluene	ND	ug/L	2500	2500		12/20/14 06:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5000	2500		12/20/14 06:05	96-12-8	
Dibromochloromethane	ND	ug/L	2500	2500		12/20/14 06:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2500	2500		12/20/14 06:05	106-93-4	
Dibromomethane	ND	ug/L	2500	2500		12/20/14 06:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2500	2500		12/20/14 06:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2500	2500		12/20/14 06:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2500	2500		12/20/14 06:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2500	2500		12/20/14 06:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	2500	2500		12/20/14 06:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	2500	2500		12/20/14 06:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	2500	2500		12/20/14 06:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2500	2500		12/20/14 06:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2500	2500		12/20/14 06:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	2500	2500		12/20/14 06:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	2500	2500		12/20/14 06:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	2500	2500		12/20/14 06:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	2500	2500		12/20/14 06:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2500	2500		12/20/14 06:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2500	2500		12/20/14 06:05	10061-02-6	
Diisopropyl ether	ND	ug/L	2500	2500		12/20/14 06:05	108-20-3	
Ethylbenzene	ND	ug/L	2500	2500		12/20/14 06:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2500	2500		12/20/14 06:05	87-68-3	
2-Hexanone	ND	ug/L	12500	2500		12/20/14 06:05	591-78-6	
p-Isopropyltoluene	ND	ug/L	2500	2500		12/20/14 06:05	99-87-6	
Methylene Chloride	**6220**	ug/L	5000	2500		12/20/14 06:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12500	2500		12/20/14 06:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2500	2500		12/20/14 06:05	1634-04-4	
Naphthalene	ND	ug/L	2500	2500		12/20/14 06:05	91-20-3	
Styrene	ND	ug/L	2500	2500		12/20/14 06:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2500	2500		12/20/14 06:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2500	2500		12/20/14 06:05	79-34-5	
Tetrachloroethene	ND	ug/L	2500	2500		12/20/14 06:05	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: MW-20A **Lab ID: 92229483010** Collected: 12/12/14 09:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	2500	2500		12/20/14 06:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2500	2500		12/20/14 06:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2500	2500		12/20/14 06:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2500	2500		12/20/14 06:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2500	2500		12/20/14 06:05	79-00-5	
Trichloroethene	**422000**	ug/L	2500	2500		12/20/14 06:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	2500	2500		12/20/14 06:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2500	2500		12/20/14 06:05	96-18-4	
Vinyl acetate	ND	ug/L	5000	2500		12/20/14 06:05	108-05-4	
Vinyl chloride	ND	ug/L	2500	2500		12/20/14 06:05	75-01-4	
Xylene (Total)	ND	ug/L	5000	2500		12/20/14 06:05	1330-20-7	
m&p-Xylene	ND	ug/L	5000	2500		12/20/14 06:05	179601-23-1	
o-Xylene	ND	ug/L	2500	2500		12/20/14 06:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	2500		12/20/14 06:05	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	2500		12/20/14 06:05	17060-07-0	
Toluene-d8 (S)	98	%	70-130	2500		12/20/14 06:05	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: DUPLICATE - WATER **Lab ID: 92229483011** Collected: 12/12/14 10:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	62500	2500		12/19/14 05:26	67-64-1	
Benzene	ND	ug/L	2500	2500		12/19/14 05:26	71-43-2	
Bromobenzene	ND	ug/L	2500	2500		12/19/14 05:26	108-86-1	
Bromochloromethane	ND	ug/L	2500	2500		12/19/14 05:26	74-97-5	
Bromodichloromethane	ND	ug/L	2500	2500		12/19/14 05:26	75-27-4	
Bromoform	ND	ug/L	2500	2500		12/19/14 05:26	75-25-2	
Bromomethane	ND	ug/L	5000	2500		12/19/14 05:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	12500	2500		12/19/14 05:26	78-93-3	
Carbon tetrachloride	ND	ug/L	2500	2500		12/19/14 05:26	56-23-5	
Chlorobenzene	ND	ug/L	2500	2500		12/19/14 05:26	108-90-7	
Chloroethane	ND	ug/L	2500	2500		12/19/14 05:26	75-00-3	
Chloroform	ND	ug/L	2500	2500		12/19/14 05:26	67-66-3	
Chloromethane	ND	ug/L	2500	2500		12/19/14 05:26	74-87-3	
2-Chlorotoluene	ND	ug/L	2500	2500		12/19/14 05:26	95-49-8	
4-Chlorotoluene	ND	ug/L	2500	2500		12/19/14 05:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5000	2500		12/19/14 05:26	96-12-8	
Dibromochloromethane	ND	ug/L	2500	2500		12/19/14 05:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2500	2500		12/19/14 05:26	106-93-4	
Dibromomethane	ND	ug/L	2500	2500		12/19/14 05:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2500	2500		12/19/14 05:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2500	2500		12/19/14 05:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2500	2500		12/19/14 05:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2500	2500		12/19/14 05:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	2500	2500		12/19/14 05:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	2500	2500		12/19/14 05:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	2500	2500		12/19/14 05:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	2500	2500		12/19/14 05:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	2500	2500		12/19/14 05:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	2500	2500		12/19/14 05:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	2500	2500		12/19/14 05:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	2500	2500		12/19/14 05:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	2500	2500		12/19/14 05:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2500	2500		12/19/14 05:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2500	2500		12/19/14 05:26	10061-02-6	
Diisopropyl ether	ND	ug/L	2500	2500		12/19/14 05:26	108-20-3	
Ethylbenzene	ND	ug/L	2500	2500		12/19/14 05:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2500	2500		12/19/14 05:26	87-68-3	
2-Hexanone	ND	ug/L	12500	2500		12/19/14 05:26	591-78-6	
p-Isopropyltoluene	ND	ug/L	2500	2500		12/19/14 05:26	99-87-6	
Methylene Chloride	ND	ug/L	5000	2500		12/19/14 05:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12500	2500		12/19/14 05:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2500	2500		12/19/14 05:26	1634-04-4	
Naphthalene	ND	ug/L	2500	2500		12/19/14 05:26	91-20-3	
Styrene	ND	ug/L	2500	2500		12/19/14 05:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2500	2500		12/19/14 05:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2500	2500		12/19/14 05:26	79-34-5	
Tetrachloroethene	ND	ug/L	2500	2500		12/19/14 05:26	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: DUPLICATE - WATER **Lab ID: 92229483011** Collected: 12/12/14 10:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	2500	2500		12/19/14 05:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2500	2500		12/19/14 05:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2500	2500		12/19/14 05:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2500	2500		12/19/14 05:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2500	2500		12/19/14 05:26	79-00-5	
Trichloroethene	**380000**	ug/L	2500	2500		12/19/14 05:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	2500	2500		12/19/14 05:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2500	2500		12/19/14 05:26	96-18-4	
Vinyl acetate	ND	ug/L	5000	2500		12/19/14 05:26	108-05-4	
Vinyl chloride	ND	ug/L	2500	2500		12/19/14 05:26	75-01-4	
Xylene (Total)	ND	ug/L	5000	2500		12/19/14 05:26	1330-20-7	
m&p-Xylene	ND	ug/L	5000	2500		12/19/14 05:26	179601-23-1	
o-Xylene	ND	ug/L	2500	2500		12/19/14 05:26	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	2500		12/19/14 05:26	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	2500		12/19/14 05:26	17060-07-0	
Toluene-d8 (S)	96	%	70-130	2500		12/19/14 05:26	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-22-85' **Lab ID: 92229483012** Collected: 12/08/14 16:20 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	82.3	1		12/17/14 23:37	67-64-1	
Benzene	ND	ug/kg	4.1	1		12/17/14 23:37	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		12/17/14 23:37	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		12/17/14 23:37	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		12/17/14 23:37	75-27-4	
Bromoform	ND	ug/kg	4.1	1		12/17/14 23:37	75-25-2	
Bromomethane	ND	ug/kg	8.2	1		12/17/14 23:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	82.3	1		12/17/14 23:37	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		12/17/14 23:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		12/17/14 23:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		12/17/14 23:37	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.1	1		12/17/14 23:37	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		12/17/14 23:37	108-90-7	
Chloroethane	ND	ug/kg	8.2	1		12/17/14 23:37	75-00-3	
Chloroform	ND	ug/kg	4.1	1		12/17/14 23:37	67-66-3	
Chloromethane	ND	ug/kg	8.2	1		12/17/14 23:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		12/17/14 23:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		12/17/14 23:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.1	1		12/17/14 23:37	96-12-8	
Dibromochloromethane	ND	ug/kg	4.1	1		12/17/14 23:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		12/17/14 23:37	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		12/17/14 23:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		12/17/14 23:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		12/17/14 23:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		12/17/14 23:37	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.2	1		12/17/14 23:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		12/17/14 23:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		12/17/14 23:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		12/17/14 23:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/17/14 23:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/17/14 23:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		12/17/14 23:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		12/17/14 23:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		12/17/14 23:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		12/17/14 23:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/17/14 23:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/17/14 23:37	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.1	1		12/17/14 23:37	108-20-3	
Ethylbenzene	ND	ug/kg	4.1	1		12/17/14 23:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		12/17/14 23:37	87-68-3	
2-Hexanone	ND	ug/kg	41.2	1		12/17/14 23:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		12/17/14 23:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		12/17/14 23:37	99-87-6	
Methylene Chloride	ND	ug/kg	16.5	1		12/17/14 23:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	41.2	1		12/17/14 23:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		12/17/14 23:37	1634-04-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-22-85' **Lab ID: 92229483012** Collected: 12/08/14 16:20 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	4.1	1		12/17/14 23:37	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		12/17/14 23:37	103-65-1	
Styrene	ND	ug/kg	4.1	1		12/17/14 23:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/17/14 23:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/17/14 23:37	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		12/17/14 23:37	127-18-4	
Toluene	ND	ug/kg	4.1	1		12/17/14 23:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		12/17/14 23:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		12/17/14 23:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		12/17/14 23:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		12/17/14 23:37	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		12/17/14 23:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		12/17/14 23:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		12/17/14 23:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		12/17/14 23:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		12/17/14 23:37	108-67-8	
Vinyl acetate	ND	ug/kg	41.2	1		12/17/14 23:37	108-05-4	
Vinyl chloride	ND	ug/kg	8.2	1		12/17/14 23:37	75-01-4	
Xylene (Total)	ND	ug/kg	8.2	1		12/17/14 23:37	1330-20-7	
m&p-Xylene	ND	ug/kg	8.2	1		12/17/14 23:37	179601-23-1	
o-Xylene	ND	ug/kg	4.1	1		12/17/14 23:37	95-47-6	
Surrogates								
Toluene-d8 (S)	101	%	70-130	1		12/17/14 23:37	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		12/17/14 23:37	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-132	1		12/17/14 23:37	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.7**	%	0.10	1		12/16/14 14:23		

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-20-0.5' **Lab ID: 92229483013** Collected: 12/09/14 11:30 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	**1870**	ug/kg	632	1		12/19/14 01:33	67-64-1	
Benzene	ND	ug/kg	31.6	1		12/19/14 01:33	71-43-2	
Bromobenzene	ND	ug/kg	31.6	1		12/19/14 01:33	108-86-1	
Bromochloromethane	ND	ug/kg	31.6	1		12/19/14 01:33	74-97-5	
Bromodichloromethane	ND	ug/kg	31.6	1		12/19/14 01:33	75-27-4	
Bromoform	ND	ug/kg	31.6	1		12/19/14 01:33	75-25-2	
Bromomethane	ND	ug/kg	63.2	1		12/19/14 01:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	632	1		12/19/14 01:33	78-93-3	
n-Butylbenzene	ND	ug/kg	31.6	1		12/19/14 01:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	31.6	1		12/19/14 01:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	31.6	1		12/19/14 01:33	98-06-6	
Carbon tetrachloride	ND	ug/kg	31.6	1		12/19/14 01:33	56-23-5	
Chlorobenzene	ND	ug/kg	31.6	1		12/19/14 01:33	108-90-7	
Chloroethane	ND	ug/kg	63.2	1		12/19/14 01:33	75-00-3	
Chloroform	ND	ug/kg	31.6	1		12/19/14 01:33	67-66-3	
Chloromethane	ND	ug/kg	63.2	1		12/19/14 01:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	31.6	1		12/19/14 01:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	31.6	1		12/19/14 01:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	31.6	1		12/19/14 01:33	96-12-8	
Dibromochloromethane	ND	ug/kg	31.6	1		12/19/14 01:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	31.6	1		12/19/14 01:33	106-93-4	
Dibromomethane	ND	ug/kg	31.6	1		12/19/14 01:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	31.6	1		12/19/14 01:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	31.6	1		12/19/14 01:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	31.6	1		12/19/14 01:33	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	63.2	1		12/19/14 01:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	31.6	1		12/19/14 01:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	31.6	1		12/19/14 01:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	31.6	1		12/19/14 01:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	31.6	1		12/19/14 01:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	31.6	1		12/19/14 01:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	31.6	1		12/19/14 01:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	31.6	1		12/19/14 01:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	31.6	1		12/19/14 01:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	31.6	1		12/19/14 01:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	31.6	1		12/19/14 01:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	31.6	1		12/19/14 01:33	10061-02-6	
Diisopropyl ether	ND	ug/kg	31.6	1		12/19/14 01:33	108-20-3	
Ethylbenzene	ND	ug/kg	31.6	1		12/19/14 01:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	31.6	1		12/19/14 01:33	87-68-3	
2-Hexanone	ND	ug/kg	316	1		12/19/14 01:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	31.6	1		12/19/14 01:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	31.6	1		12/19/14 01:33	99-87-6	
Methylene Chloride	ND	ug/kg	126	1		12/19/14 01:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	316	1		12/19/14 01:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	31.6	1		12/19/14 01:33	1634-04-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-20-0.5' **Lab ID: 92229483013** Collected: 12/09/14 11:30 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	31.6	1		12/19/14 01:33	91-20-3	
n-Propylbenzene	ND	ug/kg	31.6	1		12/19/14 01:33	103-65-1	
Styrene	ND	ug/kg	31.6	1		12/19/14 01:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	31.6	1		12/19/14 01:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	31.6	1		12/19/14 01:33	79-34-5	
Tetrachloroethene	ND	ug/kg	31.6	1		12/19/14 01:33	127-18-4	
Toluene	ND	ug/kg	31.6	1		12/19/14 01:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	31.6	1		12/19/14 01:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	31.6	1		12/19/14 01:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	31.6	1		12/19/14 01:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	31.6	1		12/19/14 01:33	79-00-5	
Trichloroethene	**75.5**	ug/kg	31.6	1		12/19/14 01:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	31.6	1		12/19/14 01:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	31.6	1		12/19/14 01:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	31.6	1		12/19/14 01:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	31.6	1		12/19/14 01:33	108-67-8	
Vinyl acetate	ND	ug/kg	316	1		12/19/14 01:33	108-05-4	
Vinyl chloride	ND	ug/kg	63.2	1		12/19/14 01:33	75-01-4	
Xylene (Total)	ND	ug/kg	63.2	1		12/19/14 01:33	1330-20-7	
m&p-Xylene	ND	ug/kg	63.2	1		12/19/14 01:33	179601-23-1	
o-Xylene	ND	ug/kg	31.6	1		12/19/14 01:33	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		12/19/14 01:33	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/19/14 01:33	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-132	1		12/19/14 01:33	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**26.7**	%	0.10	1		12/16/14 14:23		

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-20-36' **Lab ID: 92229483014** Collected: 12/09/14 16:00 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	109	1		12/19/14 01:53	67-64-1	
Benzene	ND	ug/kg	5.5	1		12/19/14 01:53	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		12/19/14 01:53	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		12/19/14 01:53	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		12/19/14 01:53	75-27-4	
Bromoform	ND	ug/kg	5.5	1		12/19/14 01:53	75-25-2	
Bromomethane	ND	ug/kg	10.9	1		12/19/14 01:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	109	1		12/19/14 01:53	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		12/19/14 01:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		12/19/14 01:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		12/19/14 01:53	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.5	1		12/19/14 01:53	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		12/19/14 01:53	108-90-7	
Chloroethane	ND	ug/kg	10.9	1		12/19/14 01:53	75-00-3	
Chloroform	ND	ug/kg	5.5	1		12/19/14 01:53	67-66-3	
Chloromethane	ND	ug/kg	10.9	1		12/19/14 01:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		12/19/14 01:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		12/19/14 01:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.5	1		12/19/14 01:53	96-12-8	
Dibromochloromethane	ND	ug/kg	5.5	1		12/19/14 01:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		12/19/14 01:53	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		12/19/14 01:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		12/19/14 01:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		12/19/14 01:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		12/19/14 01:53	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	10.9	1		12/19/14 01:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		12/19/14 01:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		12/19/14 01:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		12/19/14 01:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		12/19/14 01:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		12/19/14 01:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		12/19/14 01:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		12/19/14 01:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		12/19/14 01:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		12/19/14 01:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		12/19/14 01:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		12/19/14 01:53	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.5	1		12/19/14 01:53	108-20-3	
Ethylbenzene	ND	ug/kg	5.5	1		12/19/14 01:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		12/19/14 01:53	87-68-3	
2-Hexanone	ND	ug/kg	54.7	1		12/19/14 01:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		12/19/14 01:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		12/19/14 01:53	99-87-6	
Methylene Chloride	ND	ug/kg	21.9	1		12/19/14 01:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	54.7	1		12/19/14 01:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		12/19/14 01:53	1634-04-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-20-36' **Lab ID: 92229483014** Collected: 12/09/14 16:00 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	5.5	1		12/19/14 01:53	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		12/19/14 01:53	103-65-1	
Styrene	ND	ug/kg	5.5	1		12/19/14 01:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		12/19/14 01:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		12/19/14 01:53	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		12/19/14 01:53	127-18-4	
Toluene	ND	ug/kg	5.5	1		12/19/14 01:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		12/19/14 01:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		12/19/14 01:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		12/19/14 01:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		12/19/14 01:53	79-00-5	
Trichloroethene	**21500**	ug/kg	818	200		12/19/14 12:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		12/19/14 01:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		12/19/14 01:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		12/19/14 01:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		12/19/14 01:53	108-67-8	
Vinyl acetate	ND	ug/kg	54.7	1		12/19/14 01:53	108-05-4	
Vinyl chloride	ND	ug/kg	10.9	1		12/19/14 01:53	75-01-4	
Xylene (Total)	ND	ug/kg	10.9	1		12/19/14 01:53	1330-20-7	
m&p-Xylene	ND	ug/kg	10.9	1		12/19/14 01:53	179601-23-1	
o-Xylene	ND	ug/kg	5.5	1		12/19/14 01:53	95-47-6	
Surrogates								
Toluene-d8 (S)	91	%	70-130	1		12/19/14 01:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%	70-130	1		12/19/14 01:53	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70-132	1		12/19/14 01:53	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.1**	%	0.10	1		12/16/14 14:24		

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-20-38' **Lab ID: 92229483015** Collected: 12/09/14 15:45 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	85.5	1		12/19/14 02:13	67-64-1	
Benzene	ND	ug/kg	4.3	1		12/19/14 02:13	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		12/19/14 02:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		12/19/14 02:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		12/19/14 02:13	75-27-4	
Bromoform	ND	ug/kg	4.3	1		12/19/14 02:13	75-25-2	
Bromomethane	ND	ug/kg	8.6	1		12/19/14 02:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	85.5	1		12/19/14 02:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		12/19/14 02:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		12/19/14 02:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		12/19/14 02:13	98-06-6	
Carbon tetrachloride	ND	ug/kg	4.3	1		12/19/14 02:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		12/19/14 02:13	108-90-7	
Chloroethane	ND	ug/kg	8.6	1		12/19/14 02:13	75-00-3	
Chloroform	ND	ug/kg	4.3	1		12/19/14 02:13	67-66-3	
Chloromethane	ND	ug/kg	8.6	1		12/19/14 02:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		12/19/14 02:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		12/19/14 02:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.3	1		12/19/14 02:13	96-12-8	
Dibromochloromethane	ND	ug/kg	4.3	1		12/19/14 02:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		12/19/14 02:13	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		12/19/14 02:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		12/19/14 02:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		12/19/14 02:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		12/19/14 02:13	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	8.6	1		12/19/14 02:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		12/19/14 02:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		12/19/14 02:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		12/19/14 02:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/19/14 02:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/19/14 02:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		12/19/14 02:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		12/19/14 02:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		12/19/14 02:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		12/19/14 02:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/19/14 02:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/19/14 02:13	10061-02-6	
Diisopropyl ether	ND	ug/kg	4.3	1		12/19/14 02:13	108-20-3	
Ethylbenzene	ND	ug/kg	4.3	1		12/19/14 02:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		12/19/14 02:13	87-68-3	
2-Hexanone	ND	ug/kg	42.8	1		12/19/14 02:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		12/19/14 02:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		12/19/14 02:13	99-87-6	
Methylene Chloride	ND	ug/kg	17.1	1		12/19/14 02:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	42.8	1		12/19/14 02:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		12/19/14 02:13	1634-04-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-20-38' **Lab ID: 92229483015** Collected: 12/09/14 15:45 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	4.3	1		12/19/14 02:13	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		12/19/14 02:13	103-65-1	
Styrene	ND	ug/kg	4.3	1		12/19/14 02:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/19/14 02:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/19/14 02:13	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		12/19/14 02:13	127-18-4	
Toluene	ND	ug/kg	4.3	1		12/19/14 02:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		12/19/14 02:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		12/19/14 02:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		12/19/14 02:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		12/19/14 02:13	79-00-5	
Trichloroethene	**116000**	ug/kg	4140	1000		12/19/14 14:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		12/19/14 02:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		12/19/14 02:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		12/19/14 02:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		12/19/14 02:13	108-67-8	
Vinyl acetate	ND	ug/kg	42.8	1		12/19/14 02:13	108-05-4	
Vinyl chloride	ND	ug/kg	8.6	1		12/19/14 02:13	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		12/19/14 02:13	1330-20-7	
m&p-Xylene	ND	ug/kg	8.6	1		12/19/14 02:13	179601-23-1	
o-Xylene	ND	ug/kg	4.3	1		12/19/14 02:13	95-47-6	
Surrogates								
Toluene-d8 (S)	94	%	70-130	1		12/19/14 02:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	1		12/19/14 02:13	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	70-132	1		12/19/14 02:13	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.8**	%	0.10	1		12/16/14 14:24		

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(704)875-9092

ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-20-60' **Lab ID: 92229483016** Collected: 12/11/14 14:00 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	115	1		12/19/14 02:32	67-64-1	
Benzene	ND	ug/kg	5.8	1		12/19/14 02:32	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		12/19/14 02:32	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		12/19/14 02:32	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		12/19/14 02:32	75-27-4	
Bromoform	ND	ug/kg	5.8	1		12/19/14 02:32	75-25-2	
Bromomethane	ND	ug/kg	11.5	1		12/19/14 02:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	115	1		12/19/14 02:32	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		12/19/14 02:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		12/19/14 02:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		12/19/14 02:32	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.8	1		12/19/14 02:32	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		12/19/14 02:32	108-90-7	
Chloroethane	ND	ug/kg	11.5	1		12/19/14 02:32	75-00-3	
Chloroform	ND	ug/kg	5.8	1		12/19/14 02:32	67-66-3	
Chloromethane	ND	ug/kg	11.5	1		12/19/14 02:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		12/19/14 02:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		12/19/14 02:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1		12/19/14 02:32	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1		12/19/14 02:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		12/19/14 02:32	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		12/19/14 02:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		12/19/14 02:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		12/19/14 02:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		12/19/14 02:32	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	11.5	1		12/19/14 02:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		12/19/14 02:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		12/19/14 02:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		12/19/14 02:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		12/19/14 02:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		12/19/14 02:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		12/19/14 02:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		12/19/14 02:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		12/19/14 02:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		12/19/14 02:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		12/19/14 02:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		12/19/14 02:32	10061-02-6	
Diisopropyl ether	ND	ug/kg	5.8	1		12/19/14 02:32	108-20-3	
Ethylbenzene	ND	ug/kg	5.8	1		12/19/14 02:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		12/19/14 02:32	87-68-3	
2-Hexanone	ND	ug/kg	57.6	1		12/19/14 02:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		12/19/14 02:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		12/19/14 02:32	99-87-6	
Methylene Chloride	ND	ug/kg	23.0	1		12/19/14 02:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.6	1		12/19/14 02:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		12/19/14 02:32	1634-04-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: SB-20-60' **Lab ID: 92229483016** Collected: 12/11/14 14:00 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	5.8	1		12/19/14 02:32	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		12/19/14 02:32	103-65-1	
Styrene	ND	ug/kg	5.8	1		12/19/14 02:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		12/19/14 02:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		12/19/14 02:32	79-34-5	
Tetrachloroethene	ND	ug/kg	5.8	1		12/19/14 02:32	127-18-4	
Toluene	ND	ug/kg	5.8	1		12/19/14 02:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		12/19/14 02:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		12/19/14 02:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		12/19/14 02:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		12/19/14 02:32	79-00-5	
Trichloroethene	**33.3**	ug/kg	5.8	1		12/19/14 02:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		12/19/14 02:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		12/19/14 02:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		12/19/14 02:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		12/19/14 02:32	108-67-8	
Vinyl acetate	ND	ug/kg	57.6	1		12/19/14 02:32	108-05-4	
Vinyl chloride	ND	ug/kg	11.5	1		12/19/14 02:32	75-01-4	
Xylene (Total)	ND	ug/kg	11.5	1		12/19/14 02:32	1330-20-7	
m&p-Xylene	ND	ug/kg	11.5	1		12/19/14 02:32	179601-23-1	
o-Xylene	ND	ug/kg	5.8	1		12/19/14 02:32	95-47-6	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1		12/19/14 02:32	2037-26-5	
4-Bromofluorobenzene (S)	102	%	70-130	1		12/19/14 02:32	460-00-4	
1,2-Dichloroethane-d4 (S)	128	%	70-132	1		12/19/14 02:32	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**4.4**	%	0.10	1		12/16/14 14:24		

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: DUPLICATE - SOIL **Lab ID: 92229483017** Collected: 12/09/14 12:00 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Acetone	**423**	ug/kg	123	1		12/19/14 15:30	67-64-1	
Benzene	ND	ug/kg	6.2	1		12/19/14 15:30	71-43-2	
Bromobenzene	ND	ug/kg	6.2	1		12/19/14 15:30	108-86-1	
Bromochloromethane	ND	ug/kg	6.2	1		12/19/14 15:30	74-97-5	
Bromodichloromethane	ND	ug/kg	6.2	1		12/19/14 15:30	75-27-4	
Bromoform	ND	ug/kg	6.2	1		12/19/14 15:30	75-25-2	
Bromomethane	ND	ug/kg	12.3	1		12/19/14 15:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	123	1		12/19/14 15:30	78-93-3	
n-Butylbenzene	ND	ug/kg	6.2	1		12/19/14 15:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.2	1		12/19/14 15:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.2	1		12/19/14 15:30	98-06-6	
Carbon tetrachloride	ND	ug/kg	6.2	1		12/19/14 15:30	56-23-5	
Chlorobenzene	ND	ug/kg	6.2	1		12/19/14 15:30	108-90-7	
Chloroethane	ND	ug/kg	12.3	1		12/19/14 15:30	75-00-3	
Chloroform	ND	ug/kg	6.2	1		12/19/14 15:30	67-66-3	
Chloromethane	ND	ug/kg	12.3	1		12/19/14 15:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.2	1		12/19/14 15:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.2	1		12/19/14 15:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	6.2	1		12/19/14 15:30	96-12-8	
Dibromochloromethane	ND	ug/kg	6.2	1		12/19/14 15:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.2	1		12/19/14 15:30	106-93-4	
Dibromomethane	ND	ug/kg	6.2	1		12/19/14 15:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.2	1		12/19/14 15:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.2	1		12/19/14 15:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.2	1		12/19/14 15:30	106-46-7	
Dichlorodifluoromethane	ND	ug/kg	12.3	1		12/19/14 15:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.2	1		12/19/14 15:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.2	1		12/19/14 15:30	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.2	1		12/19/14 15:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1		12/19/14 15:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1		12/19/14 15:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.2	1		12/19/14 15:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.2	1		12/19/14 15:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.2	1		12/19/14 15:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.2	1		12/19/14 15:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.2	1		12/19/14 15:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.2	1		12/19/14 15:30	10061-02-6	
Diisopropyl ether	ND	ug/kg	6.2	1		12/19/14 15:30	108-20-3	
Ethylbenzene	ND	ug/kg	6.2	1		12/19/14 15:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/kg	6.2	1		12/19/14 15:30	87-68-3	
2-Hexanone	ND	ug/kg	61.7	1		12/19/14 15:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	1		12/19/14 15:30	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.2	1		12/19/14 15:30	99-87-6	
Methylene Chloride	ND	ug/kg	24.7	1		12/19/14 15:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	61.7	1		12/19/14 15:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.2	1		12/19/14 15:30	1634-04-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: DUPLICATE - SOIL **Lab ID: 92229483017** Collected: 12/09/14 12:00 Received: 12/12/14 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Naphthalene	ND	ug/kg	6.2	1		12/19/14 15:30	91-20-3	
n-Propylbenzene	ND	ug/kg	6.2	1		12/19/14 15:30	103-65-1	
Styrene	ND	ug/kg	6.2	1		12/19/14 15:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1		12/19/14 15:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1		12/19/14 15:30	79-34-5	
Tetrachloroethene	ND	ug/kg	6.2	1		12/19/14 15:30	127-18-4	
Toluene	ND	ug/kg	6.2	1		12/19/14 15:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	1		12/19/14 15:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	1		12/19/14 15:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1		12/19/14 15:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.2	1		12/19/14 15:30	79-00-5	
Trichloroethene	ND	ug/kg	6.2	1		12/19/14 15:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.2	1		12/19/14 15:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.2	1		12/19/14 15:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	1		12/19/14 15:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	1		12/19/14 15:30	108-67-8	
Vinyl acetate	ND	ug/kg	61.7	1		12/19/14 15:30	108-05-4	
Vinyl chloride	ND	ug/kg	12.3	1		12/19/14 15:30	75-01-4	
Xylene (Total)	ND	ug/kg	12.3	1		12/19/14 15:30	1330-20-7	
m&p-Xylene	ND	ug/kg	12.3	1		12/19/14 15:30	179601-23-1	
o-Xylene	ND	ug/kg	6.2	1		12/19/14 15:30	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%	70-130	1		12/19/14 15:30	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130	1		12/19/14 15:30	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%	70-132	1		12/19/14 15:30	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.4**	%	0.10	1		12/16/14 14:24		

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: TRIP BLANK **Lab ID: 92229483018** Collected: 12/08/14 00:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		12/19/14 20:29	67-64-1	
Benzene	ND	ug/L	1.0	1		12/19/14 20:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		12/19/14 20:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		12/19/14 20:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		12/19/14 20:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/19/14 20:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		12/19/14 20:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		12/19/14 20:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		12/19/14 20:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/19/14 20:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/19/14 20:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/19/14 20:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/19/14 20:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		12/19/14 20:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		12/19/14 20:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		12/19/14 20:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		12/19/14 20:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		12/19/14 20:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		12/19/14 20:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/19/14 20:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/19/14 20:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/19/14 20:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		12/19/14 20:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/19/14 20:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/19/14 20:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/19/14 20:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/14 20:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/19/14 20:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/19/14 20:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		12/19/14 20:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		12/19/14 20:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		12/19/14 20:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/14 20:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/19/14 20:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		12/19/14 20:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		12/19/14 20:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		12/19/14 20:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		12/19/14 20:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		12/19/14 20:29	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		12/19/14 20:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		12/19/14 20:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/19/14 20:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		12/19/14 20:29	91-20-3	
Styrene	ND	ug/L	1.0	1		12/19/14 20:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/14 20:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/19/14 20:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		12/19/14 20:29	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Sample: TRIP BLANK **Lab ID: 92229483018** Collected: 12/08/14 00:00 Received: 12/12/14 11:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		12/19/14 20:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		12/19/14 20:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		12/19/14 20:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/19/14 20:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/19/14 20:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		12/19/14 20:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/19/14 20:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		12/19/14 20:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		12/19/14 20:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		12/19/14 20:29	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		12/19/14 20:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		12/19/14 20:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		12/19/14 20:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	70-130	1		12/19/14 20:29	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/19/14 20:29	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/19/14 20:29	2037-26-5	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

QC Batch: MSV/29652 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92229483001, 92229483002, 92229483003, 92229483004, 92229483005, 92229483011

METHOD BLANK: 1351904 Matrix: Water
Associated Lab Samples: 92229483001, 92229483002, 92229483003, 92229483004, 92229483005, 92229483011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/18/14 22:22	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/18/14 22:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/18/14 22:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/18/14 22:22	
1,1-Dichloroethane	ug/L	ND	1.0	12/18/14 22:22	
1,1-Dichloroethene	ug/L	ND	1.0	12/18/14 22:22	
1,1-Dichloropropene	ug/L	ND	1.0	12/18/14 22:22	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/18/14 22:22	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/18/14 22:22	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/18/14 22:22	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/18/14 22:22	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/18/14 22:22	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/18/14 22:22	
1,2-Dichloroethane	ug/L	ND	1.0	12/18/14 22:22	
1,2-Dichloropropane	ug/L	ND	1.0	12/18/14 22:22	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/18/14 22:22	
1,3-Dichloropropane	ug/L	ND	1.0	12/18/14 22:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/18/14 22:22	
2,2-Dichloropropane	ug/L	ND	1.0	12/18/14 22:22	
2-Butanone (MEK)	ug/L	ND	5.0	12/18/14 22:22	
2-Chlorotoluene	ug/L	ND	1.0	12/18/14 22:22	
2-Hexanone	ug/L	ND	5.0	12/18/14 22:22	
4-Chlorotoluene	ug/L	ND	1.0	12/18/14 22:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/18/14 22:22	
Acetone	ug/L	ND	25.0	12/18/14 22:22	
Benzene	ug/L	ND	1.0	12/18/14 22:22	
Bromobenzene	ug/L	ND	1.0	12/18/14 22:22	
Bromochloromethane	ug/L	ND	1.0	12/18/14 22:22	
Bromodichloromethane	ug/L	ND	1.0	12/18/14 22:22	
Bromoform	ug/L	ND	1.0	12/18/14 22:22	
Bromomethane	ug/L	2.6	2.0	12/18/14 22:22	
Carbon tetrachloride	ug/L	ND	1.0	12/18/14 22:22	
Chlorobenzene	ug/L	ND	1.0	12/18/14 22:22	
Chloroethane	ug/L	ND	1.0	12/18/14 22:22	
Chloroform	ug/L	ND	1.0	12/18/14 22:22	
Chloromethane	ug/L	ND	1.0	12/18/14 22:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/18/14 22:22	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/18/14 22:22	
Dibromochloromethane	ug/L	ND	1.0	12/18/14 22:22	
Dibromomethane	ug/L	ND	1.0	12/18/14 22:22	
Dichlorodifluoromethane	ug/L	ND	1.0	12/18/14 22:22	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

METHOD BLANK: 1351904 Matrix: Water
Associated Lab Samples: 92229483001, 92229483002, 92229483003, 92229483004, 92229483005, 92229483011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/18/14 22:22	
Ethylbenzene	ug/L	ND	1.0	12/18/14 22:22	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/18/14 22:22	
m&p-Xylene	ug/L	ND	2.0	12/18/14 22:22	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/18/14 22:22	
Methylene Chloride	ug/L	ND	2.0	12/18/14 22:22	
Naphthalene	ug/L	ND	1.0	12/18/14 22:22	
o-Xylene	ug/L	ND	1.0	12/18/14 22:22	
p-Isopropyltoluene	ug/L	ND	1.0	12/18/14 22:22	
Styrene	ug/L	ND	1.0	12/18/14 22:22	
Tetrachloroethene	ug/L	ND	1.0	12/18/14 22:22	
Toluene	ug/L	ND	1.0	12/18/14 22:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/18/14 22:22	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/18/14 22:22	
Trichloroethene	ug/L	ND	1.0	12/18/14 22:22	
Trichlorofluoromethane	ug/L	ND	1.0	12/18/14 22:22	
Vinyl acetate	ug/L	ND	2.0	12/18/14 22:22	
Vinyl chloride	ug/L	ND	1.0	12/18/14 22:22	
Xylene (Total)	ug/L	ND	2.0	12/18/14 22:22	
1,2-Dichloroethane-d4 (S)	%	96	70-130	12/18/14 22:22	
4-Bromofluorobenzene (S)	%	93	70-130	12/18/14 22:22	
Toluene-d8 (S)	%	97	70-130	12/18/14 22:22	

LABORATORY CONTROL SAMPLE: 1355840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.5	97	70-130	
1,1,1-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.7	93	70-130	
1,1,2-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethene	ug/L	50	39.8	80	70-132	
1,1-Dichloropropene	ug/L	50	48.0	96	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.8	102	70-135	
1,2,3-Trichloropropane	ug/L	50	50.3	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	54.5	109	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.4	103	70-130	
1,2-Dichlorobenzene	ug/L	50	47.8	96	70-130	
1,2-Dichloroethane	ug/L	50	44.0	88	70-130	
1,2-Dichloropropane	ug/L	50	49.0	98	70-130	
1,3-Dichlorobenzene	ug/L	50	47.0	94	70-130	
1,3-Dichloropropane	ug/L	50	48.9	98	70-130	
1,4-Dichlorobenzene	ug/L	50	47.1	94	70-130	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

LABORATORY CONTROL SAMPLE: 1355840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	46.3	93	58-145	
2-Butanone (MEK)	ug/L	100	97.5	97	70-145	
2-Chlorotoluene	ug/L	50	46.4	93	70-130	
2-Hexanone	ug/L	100	101	101	70-144	
4-Chlorotoluene	ug/L	50	45.8	92	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	70-140	
Acetone	ug/L	100	72.5	73	50-175	
Benzene	ug/L	50	48.0	96	70-130	
Bromobenzene	ug/L	50	47.5	95	70-130	
Bromochloromethane	ug/L	50	51.3	103	70-130	
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	47.3	95	70-130	
Bromomethane	ug/L	50	52.8	106	54-130	
Carbon tetrachloride	ug/L	50	49.1	98	70-132	
Chlorobenzene	ug/L	50	48.3	97	70-130	
Chloroethane	ug/L	50	49.3	99	64-134	
Chloroform	ug/L	50	52.7	105	70-130	
Chloromethane	ug/L	50	41.6	83	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	70-131	
cis-1,3-Dichloropropene	ug/L	50	50.4	101	70-130	
Dibromochloromethane	ug/L	50	48.1	96	70-130	
Dibromomethane	ug/L	50	48.1	96	70-131	
Dichlorodifluoromethane	ug/L	50	42.4	85	56-130	
Diisopropyl ether	ug/L	50	49.5	99	70-130	
Ethylbenzene	ug/L	50	46.8	94	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.0	92	70-130	
m&p-Xylene	ug/L	100	87.9	88	70-130	
Methyl-tert-butyl ether	ug/L	50	45.1	90	70-130	
Methylene Chloride	ug/L	50	38.5	77	63-130	
Naphthalene	ug/L	50	53.3	107	70-138	
o-Xylene	ug/L	50	43.4	87	70-130	
p-Isopropyltoluene	ug/L	50	46.6	93	70-130	
Styrene	ug/L	50	46.0	92	70-130	
Tetrachloroethene	ug/L	50	45.1	90	70-130	
Toluene	ug/L	50	47.6	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	34.7	69	70-130	L0
trans-1,3-Dichloropropene	ug/L	50	45.3	91	70-132	
Trichloroethene	ug/L	50	43.6	87	70-130	
Trichlorofluoromethane	ug/L	50	40.9	82	62-133	
Vinyl acetate	ug/L	100	102	102	66-157	
Vinyl chloride	ug/L	50	43.0	86	50-150	
Xylene (Total)	ug/L	150	131	88	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1351906 1351907

Parameter	Units	92229483002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	459	525	115	131	70-130	13	M0
1,1,1-Trichloroethane	ug/L	ND	400	400	472	542	118	135	70-130	14	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	430	495	107	124	70-130	14	
1,1,2-Trichloroethane	ug/L	ND	400	400	451	521	113	130	70-130	14	
1,1-Dichloroethane	ug/L	ND	400	400	512	406	128	102	70-130	23	
1,1-Dichloroethene	ug/L	ND	400	400	352	413	88	103	70-166	16	
1,1-Dichloropropene	ug/L	ND	400	400	485	556	121	139	70-130	14	M0
1,2,3-Trichlorobenzene	ug/L	ND	400	400	482	549	121	137	70-130	13	M0
1,2,3-Trichloropropane	ug/L	ND	400	400	443	520	111	130	70-130	16	
1,2,4-Trichlorobenzene	ug/L	ND	400	400	478	548	120	137	70-130	14	M0
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	461	509	115	127	70-130	10	
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	462	531	116	133	70-130	14	M0
1,2-Dichlorobenzene	ug/L	ND	400	400	457	524	114	131	70-130	14	M0
1,2-Dichloroethane	ug/L	ND	400	400	407	467	102	117	70-130	14	
1,2-Dichloropropane	ug/L	ND	400	400	460	520	115	130	70-130	12	
1,3-Dichlorobenzene	ug/L	ND	400	400	478	531	119	133	70-130	10	M0
1,3-Dichloropropane	ug/L	ND	400	400	456	521	114	130	70-130	13	
1,4-Dichlorobenzene	ug/L	ND	400	400	467	529	117	132	70-130	12	M0
2,2-Dichloropropane	ug/L	ND	400	400	478	543	119	136	70-130	13	M0
2-Butanone (MEK)	ug/L	ND	800	800	860	958	107	120	70-130	11	
2-Chlorotoluene	ug/L	ND	400	400	477	536	119	134	70-130	12	M0
2-Hexanone	ug/L	ND	800	800	935	1050	117	131	70-130	11	M0
4-Chlorotoluene	ug/L	ND	400	400	465	526	116	132	70-130	12	M0
4-Methyl-2-pentanone (MIBK)	ug/L	ND	800	800	907	1030	113	129	70-130	13	
Acetone	ug/L	ND	800	800	565	640	71	80	70-130	12	
Benzene	ug/L	ND	400	400	481	543	120	136	70-148	12	
Bromobenzene	ug/L	ND	400	400	459	524	115	131	70-130	13	M0
Bromochloromethane	ug/L	ND	400	400	474	542	119	135	70-130	13	M0
Bromodichloromethane	ug/L	ND	400	400	455	515	114	129	70-130	12	
Bromoform	ug/L	ND	400	400	425	484	106	121	70-130	13	
Bromomethane	ug/L	ND	400	400	506	605	126	151	70-130	18	M0
Carbon tetrachloride	ug/L	ND	400	400	491	548	123	137	70-130	11	M0
Chlorobenzene	ug/L	ND	400	400	470	542	118	136	70-146	14	
Chloroethane	ug/L	ND	400	400	373	520	93	130	70-130	33	M0,R1
Chloroform	ug/L	ND	400	400	517	570	129	143	70-130	10	M0
Chloromethane	ug/L	ND	400	400	325	327	81	82	70-130	1	
cis-1,2-Dichloroethene	ug/L	137	400	400	616	676	120	135	70-130	9	M0
cis-1,3-Dichloropropene	ug/L	ND	400	400	466	530	116	132	70-130	13	M0
Dibromochloromethane	ug/L	ND	400	400	444	510	111	128	70-130	14	
Dibromomethane	ug/L	ND	400	400	431	485	108	121	70-130	12	
Dichlorodifluoromethane	ug/L	ND	400	400	283	318	71	79	70-130	12	
Diisopropyl ether	ug/L	ND	400	400	485	365	121	91	70-130	28	
Ethylbenzene	ug/L	ND	400	400	470	535	118	134	70-130	13	M0
Hexachloro-1,3-butadiene	ug/L	ND	400	400	607	736	152	184	70-130	19	M0
m&p-Xylene	ug/L	ND	800	800	892	1010	111	126	70-130	12	
Methyl-tert-butyl ether	ug/L	ND	400	400	328	373	82	93	70-130	13	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1351906 1351907

Parameter	Units	92229483002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Methylene Chloride	ug/L	ND	400	400	332	370	83	92	70-130	11	
Naphthalene	ug/L	ND	400	400	493	555	123	139	70-130	12	M0
o-Xylene	ug/L	ND	400	400	424	482	106	121	70-130	13	
p-Isopropyltoluene	ug/L	ND	400	400	501	568	125	142	70-130	13	M0
Styrene	ug/L	ND	400	400	466	522	116	131	70-130	11	M0
Tetrachloroethene	ug/L	1350	400	400	1850	1870	124	130	70-130	1	
Toluene	ug/L	ND	400	400	463	521	116	130	70-155	12	
trans-1,2-Dichloroethene	ug/L	ND	400	400	349	397	87	99	70-130	13	
trans-1,3-Dichloropropene	ug/L	ND	400	400	414	472	103	118	70-130	13	
Trichloroethene	ug/L	2190	400	400	2670	2670	118	118	69-151	0	
Trichlorofluoromethane	ug/L	ND	400	400	352	405	88	101	70-130	14	
Vinyl acetate	ug/L	ND	800	800	939	1070	117	134	70-130	13	M0
Vinyl chloride	ug/L	ND	400	400	286	403	71	101	70-130	34	M0,R1
1,2-Dichloroethane-d4 (S)	%						91	92	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Toluene-d8 (S)	%						100	101	70-130		

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

QC Batch: MSV/29726 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92229483006, 92229483007, 92229483008, 92229483009, 92229483010

METHOD BLANK: 1356492 Matrix: Water
Associated Lab Samples: 92229483006, 92229483007, 92229483008, 92229483009, 92229483010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/19/14 21:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/19/14 21:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/19/14 21:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/19/14 21:35	
1,1-Dichloroethane	ug/L	ND	1.0	12/19/14 21:35	
1,1-Dichloroethene	ug/L	ND	1.0	12/19/14 21:35	
1,1-Dichloropropene	ug/L	ND	1.0	12/19/14 21:35	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/19/14 21:35	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/19/14 21:35	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/19/14 21:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/19/14 21:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/19/14 21:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/19/14 21:35	
1,2-Dichloroethane	ug/L	ND	1.0	12/19/14 21:35	
1,2-Dichloropropane	ug/L	ND	1.0	12/19/14 21:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/19/14 21:35	
1,3-Dichloropropane	ug/L	ND	1.0	12/19/14 21:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/19/14 21:35	
2,2-Dichloropropane	ug/L	ND	1.0	12/19/14 21:35	
2-Butanone (MEK)	ug/L	ND	5.0	12/19/14 21:35	
2-Chlorotoluene	ug/L	ND	1.0	12/19/14 21:35	
2-Hexanone	ug/L	ND	5.0	12/19/14 21:35	
4-Chlorotoluene	ug/L	ND	1.0	12/19/14 21:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/19/14 21:35	
Acetone	ug/L	ND	25.0	12/19/14 21:35	
Benzene	ug/L	ND	1.0	12/19/14 21:35	
Bromobenzene	ug/L	ND	1.0	12/19/14 21:35	
Bromochloromethane	ug/L	ND	1.0	12/19/14 21:35	
Bromodichloromethane	ug/L	ND	1.0	12/19/14 21:35	
Bromoform	ug/L	ND	1.0	12/19/14 21:35	
Bromomethane	ug/L	ND	2.0	12/19/14 21:35	
Carbon tetrachloride	ug/L	ND	1.0	12/19/14 21:35	
Chlorobenzene	ug/L	ND	1.0	12/19/14 21:35	
Chloroethane	ug/L	ND	1.0	12/19/14 21:35	
Chloroform	ug/L	ND	1.0	12/19/14 21:35	
Chloromethane	ug/L	ND	1.0	12/19/14 21:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/19/14 21:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/19/14 21:35	
Dibromochloromethane	ug/L	ND	1.0	12/19/14 21:35	
Dibromomethane	ug/L	ND	1.0	12/19/14 21:35	
Dichlorodifluoromethane	ug/L	ND	1.0	12/19/14 21:35	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

METHOD BLANK: 1356492 Matrix: Water
Associated Lab Samples: 92229483006, 92229483007, 92229483008, 92229483009, 92229483010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/19/14 21:35	
Ethylbenzene	ug/L	ND	1.0	12/19/14 21:35	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/19/14 21:35	
m&p-Xylene	ug/L	ND	2.0	12/19/14 21:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/19/14 21:35	
Methylene Chloride	ug/L	ND	2.0	12/19/14 21:35	
Naphthalene	ug/L	ND	1.0	12/19/14 21:35	
o-Xylene	ug/L	ND	1.0	12/19/14 21:35	
p-Isopropyltoluene	ug/L	ND	1.0	12/19/14 21:35	
Styrene	ug/L	ND	1.0	12/19/14 21:35	
Tetrachloroethene	ug/L	ND	1.0	12/19/14 21:35	
Toluene	ug/L	ND	1.0	12/19/14 21:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/19/14 21:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/19/14 21:35	
Trichloroethene	ug/L	ND	1.0	12/19/14 21:35	
Trichlorofluoromethane	ug/L	ND	1.0	12/19/14 21:35	
Vinyl acetate	ug/L	ND	2.0	12/19/14 21:35	
Vinyl chloride	ug/L	ND	1.0	12/19/14 21:35	
Xylene (Total)	ug/L	ND	2.0	12/19/14 21:35	
1,2-Dichloroethane-d4 (S)	%	103	70-130	12/19/14 21:35	
4-Bromofluorobenzene (S)	%	101	70-130	12/19/14 21:35	
Toluene-d8 (S)	%	97	70-130	12/19/14 21:35	

LABORATORY CONTROL SAMPLE: 1356493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.0	112	70-130	
1,1,1-Trichloroethane	ug/L	50	57.6	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.5	103	70-130	
1,1,2-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	56.1	112	70-130	
1,1-Dichloroethene	ug/L	50	55.8	112	70-132	
1,1-Dichloropropene	ug/L	50	55.1	110	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.9	106	70-135	
1,2,3-Trichloropropane	ug/L	50	52.0	104	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.9	108	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.9	112	70-130	
1,2-Dichlorobenzene	ug/L	50	53.0	106	70-130	
1,2-Dichloroethane	ug/L	50	51.3	103	70-130	
1,2-Dichloropropane	ug/L	50	53.8	108	70-130	
1,3-Dichlorobenzene	ug/L	50	53.3	107	70-130	
1,3-Dichloropropane	ug/L	50	53.2	106	70-130	
1,4-Dichlorobenzene	ug/L	50	52.7	105	70-130	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

LABORATORY CONTROL SAMPLE: 1356493

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	57.4	115	58-145	
2-Butanone (MEK)	ug/L	100	94.8	95	70-145	
2-Chlorotoluene	ug/L	50	53.9	108	70-130	
2-Hexanone	ug/L	100	99.5	99	70-144	
4-Chlorotoluene	ug/L	50	53.8	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-140	
Acetone	ug/L	100	100	100	50-175	
Benzene	ug/L	50	54.3	109	70-130	
Bromobenzene	ug/L	50	54.3	109	70-130	
Bromochloromethane	ug/L	50	58.0	116	70-130	
Bromodichloromethane	ug/L	50	57.1	114	70-130	
Bromoform	ug/L	50	49.6	99	70-130	
Bromomethane	ug/L	50	57.6	115	54-130	
Carbon tetrachloride	ug/L	50	52.7	105	70-132	
Chlorobenzene	ug/L	50	53.9	108	70-130	
Chloroethane	ug/L	50	54.4	109	64-134	
Chloroform	ug/L	50	57.2	114	70-130	
Chloromethane	ug/L	50	55.9	112	64-130	
cis-1,2-Dichloroethene	ug/L	50	56.0	112	70-131	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	70-130	
Dibromochloromethane	ug/L	50	52.5	105	70-130	
Dibromomethane	ug/L	50	54.8	110	70-131	
Dichlorodifluoromethane	ug/L	50	61.1	122	56-130	
Diisopropyl ether	ug/L	50	51.6	103	70-130	
Ethylbenzene	ug/L	50	52.6	105	70-130	
Hexachloro-1,3-butadiene	ug/L	50	52.5	105	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	51.5	103	70-130	
Methylene Chloride	ug/L	50	54.8	110	63-130	
Naphthalene	ug/L	50	54.5	109	70-138	
o-Xylene	ug/L	50	51.6	103	70-130	
p-Isopropyltoluene	ug/L	50	54.1	108	70-130	
Styrene	ug/L	50	55.4	111	70-130	
Tetrachloroethene	ug/L	50	53.2	106	70-130	
Toluene	ug/L	50	52.8	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	58.3	117	70-130	
trans-1,3-Dichloropropene	ug/L	50	50.8	102	70-132	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	54.4	109	62-133	
Vinyl acetate	ug/L	100	103	103	66-157	
Vinyl chloride	ug/L	50	52.7	105	50-150	
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

MATRIX SPIKE SAMPLE: 1356494

Parameter	Units	92229567022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.7	109	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.8	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.9	105	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.2	101	70-130	
1,1-Dichloroethane	ug/L	ND	20	24.3	121	70-130	
1,1-Dichloroethene	ug/L	4.7	20	27.9	116	70-166	
1,1-Dichloropropene	ug/L	ND	20	23.2	116	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	21.8	109	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.2	106	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.9	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.3	96	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.1	110	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	21.3	106	70-130	
1,2-Dichloroethane	ug/L	ND	20	20.6	103	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.6	108	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.8	109	70-130	
1,3-Dichloropropane	ug/L	ND	20	20.9	105	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.5	108	70-130	
2,2-Dichloropropane	ug/L	ND	20	23.2	116	70-130	
2-Butanone (MEK)	ug/L	ND	40	40.7	102	70-130	
2-Chlorotoluene	ug/L	ND	20	22.2	111	70-130	
2-Hexanone	ug/L	ND	40	42.0	105	70-130	
4-Chlorotoluene	ug/L	ND	20	22.3	111	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	41.2	103	70-130	
Acetone	ug/L	ND	40	42.1	105	70-130	
Benzene	ug/L	ND	20	22.7	113	70-148	
Bromobenzene	ug/L	ND	20	21.9	109	70-130	
Bromochloromethane	ug/L	ND	20	23.0	115	70-130	
Bromodichloromethane	ug/L	ND	20	20.9	105	70-130	
Bromoform	ug/L	ND	20	19.4	97	70-130	
Bromomethane	ug/L	ND	20	24.2	121	70-130	
Carbon tetrachloride	ug/L	ND	20	21.6	108	70-130	
Chlorobenzene	ug/L	ND	20	22.2	111	70-146	
Chloroethane	ug/L	ND	20	22.7	113	70-130	
Chloroform	ug/L	ND	20	23.2	116	70-130	
Chloromethane	ug/L	ND	20	23.2	116	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.6	118	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.3	96	70-130	
Dibromochloromethane	ug/L	ND	20	20.4	102	70-130	
Dibromomethane	ug/L	ND	20	20.8	104	70-130	
Dichlorodifluoromethane	ug/L	ND	20	25.4	127	70-130	
Diisopropyl ether	ug/L	ND	20	20.6	103	70-130	
Ethylbenzene	ug/L	ND	20	22.1	110	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	27.7	138	70-130	M0
m&p-Xylene	ug/L	ND	40	45.0	112	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.5	103	70-130	
Methylene Chloride	ug/L	ND	20	21.5	107	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

MATRIX SPIKE SAMPLE: 1356494

Parameter	Units	92229567022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	22.5	113	70-130	
o-Xylene	ug/L	ND	20	21.6	108	70-130	
p-Isopropyltoluene	ug/L	ND	20	23.2	116	70-130	
Styrene	ug/L	ND	20	22.1	111	70-130	
Tetrachloroethene	ug/L	ND	20	22.5	112	70-130	
Toluene	ug/L	ND	20	21.8	107	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	24.5	123	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.4	97	70-130	
Trichloroethene	ug/L	49.5	20	71.3	109	69-151	
Trichlorofluoromethane	ug/L	ND	20	22.4	112	70-130	
Vinyl acetate	ug/L	ND	40	38.9	97	70-130	
Vinyl chloride	ug/L	ND	20	21.6	108	70-130	
1,2-Dichloroethane-d4 (S)	%				96	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1356495

Parameter	Units	92229567026 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	.84J		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	2.4	2.6	6	
1,1-Dichloroethene	ug/L	9.6	9.9	3	
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

SAMPLE DUPLICATE: 1356495

Parameter	Units	92229567026 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	3.5	3.6	4	
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	1.6	1.6	2	
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	36.2	36.4	0	
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	114	117	2	
4-Bromofluorobenzene (S)	%	100	101	0	
Toluene-d8 (S)	%	97	98	1	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

QC Batch: MSV/29736 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92229483018

METHOD BLANK: 1356863 | Matrix: Water
Associated Lab Samples: 92229483018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/19/14 18:15	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/19/14 18:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/19/14 18:15	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/19/14 18:15	
1,1-Dichloroethane	ug/L	ND	1.0	12/19/14 18:15	
1,1-Dichloroethene	ug/L	ND	1.0	12/19/14 18:15	
1,1-Dichloropropene	ug/L	ND	1.0	12/19/14 18:15	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/19/14 18:15	
1,2,3-Trichloropropane	ug/L	ND	1.0	12/19/14 18:15	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/19/14 18:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	12/19/14 18:15	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/19/14 18:15	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/19/14 18:15	
1,2-Dichloroethane	ug/L	ND	1.0	12/19/14 18:15	
1,2-Dichloropropane	ug/L	ND	1.0	12/19/14 18:15	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/19/14 18:15	
1,3-Dichloropropane	ug/L	ND	1.0	12/19/14 18:15	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/19/14 18:15	
2,2-Dichloropropane	ug/L	ND	1.0	12/19/14 18:15	
2-Butanone (MEK)	ug/L	ND	5.0	12/19/14 18:15	
2-Chlorotoluene	ug/L	ND	1.0	12/19/14 18:15	
2-Hexanone	ug/L	ND	5.0	12/19/14 18:15	
4-Chlorotoluene	ug/L	ND	1.0	12/19/14 18:15	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	12/19/14 18:15	
Acetone	ug/L	ND	25.0	12/19/14 18:15	
Benzene	ug/L	ND	1.0	12/19/14 18:15	
Bromobenzene	ug/L	ND	1.0	12/19/14 18:15	
Bromochloromethane	ug/L	ND	1.0	12/19/14 18:15	
Bromodichloromethane	ug/L	ND	1.0	12/19/14 18:15	
Bromoform	ug/L	ND	1.0	12/19/14 18:15	
Bromomethane	ug/L	ND	2.0	12/19/14 18:15	
Carbon tetrachloride	ug/L	ND	1.0	12/19/14 18:15	
Chlorobenzene	ug/L	ND	1.0	12/19/14 18:15	
Chloroethane	ug/L	ND	1.0	12/19/14 18:15	
Chloroform	ug/L	ND	1.0	12/19/14 18:15	
Chloromethane	ug/L	ND	1.0	12/19/14 18:15	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/19/14 18:15	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/19/14 18:15	
Dibromochloromethane	ug/L	ND	1.0	12/19/14 18:15	
Dibromomethane	ug/L	ND	1.0	12/19/14 18:15	
Dichlorodifluoromethane	ug/L	ND	1.0	12/19/14 18:15	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

METHOD BLANK: 1356863 Matrix: Water
Associated Lab Samples: 92229483018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	12/19/14 18:15	
Ethylbenzene	ug/L	ND	1.0	12/19/14 18:15	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/19/14 18:15	
m&p-Xylene	ug/L	ND	2.0	12/19/14 18:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/19/14 18:15	
Methylene Chloride	ug/L	ND	2.0	12/19/14 18:15	
Naphthalene	ug/L	ND	1.0	12/19/14 18:15	
o-Xylene	ug/L	ND	1.0	12/19/14 18:15	
p-Isopropyltoluene	ug/L	ND	1.0	12/19/14 18:15	
Styrene	ug/L	ND	1.0	12/19/14 18:15	
Tetrachloroethene	ug/L	ND	1.0	12/19/14 18:15	
Toluene	ug/L	ND	1.0	12/19/14 18:15	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/19/14 18:15	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/19/14 18:15	
Trichloroethene	ug/L	ND	1.0	12/19/14 18:15	
Trichlorofluoromethane	ug/L	ND	1.0	12/19/14 18:15	
Vinyl acetate	ug/L	ND	2.0	12/19/14 18:15	
Vinyl chloride	ug/L	ND	1.0	12/19/14 18:15	
Xylene (Total)	ug/L	ND	2.0	12/19/14 18:15	
1,2-Dichloroethane-d4 (S)	%	100	70-130	12/19/14 18:15	
4-Bromofluorobenzene (S)	%	95	70-130	12/19/14 18:15	
Toluene-d8 (S)	%	98	70-130	12/19/14 18:15	

LABORATORY CONTROL SAMPLE: 1356864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	70-130	
1,1,1-Trichloroethane	ug/L	50	57.0	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.7	103	70-130	
1,1,2-Trichloroethane	ug/L	50	53.5	107	70-130	
1,1-Dichloroethane	ug/L	50	56.8	114	70-130	
1,1-Dichloroethene	ug/L	50	55.6	111	70-132	
1,1-Dichloropropene	ug/L	50	56.6	113	70-130	
1,2,3-Trichlorobenzene	ug/L	50	52.4	105	70-135	
1,2,3-Trichloropropane	ug/L	50	52.1	104	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	55.2	110	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.6	109	70-130	
1,2-Dichlorobenzene	ug/L	50	53.0	106	70-130	
1,2-Dichloroethane	ug/L	50	55.0	110	70-130	
1,2-Dichloropropane	ug/L	50	53.1	106	70-130	
1,3-Dichlorobenzene	ug/L	50	52.7	105	70-130	
1,3-Dichloropropane	ug/L	50	52.9	106	70-130	
1,4-Dichlorobenzene	ug/L	50	53.0	106	70-130	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

LABORATORY CONTROL SAMPLE: 1356864

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	58.2	116	58-145	
2-Butanone (MEK)	ug/L	100	105	105	70-145	
2-Chlorotoluene	ug/L	50	47.7	95	70-130	
2-Hexanone	ug/L	100	96.2	96	70-144	
4-Chlorotoluene	ug/L	50	52.4	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	70-140	
Acetone	ug/L	100	98.9	99	50-175	
Benzene	ug/L	50	54.3	109	70-130	
Bromobenzene	ug/L	50	54.4	109	70-130	
Bromochloromethane	ug/L	50	51.3	103	70-130	
Bromodichloromethane	ug/L	50	55.5	111	70-130	
Bromoform	ug/L	50	51.8	104	70-130	
Bromomethane	ug/L	50	50.7	101	54-130	
Carbon tetrachloride	ug/L	50	55.2	110	70-132	
Chlorobenzene	ug/L	50	52.9	106	70-130	
Chloroethane	ug/L	50	56.5	113	64-134	
Chloroform	ug/L	50	57.2	114	70-130	
Chloromethane	ug/L	50	54.1	108	64-130	
cis-1,2-Dichloroethene	ug/L	50	56.3	113	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.5	111	70-130	
Dibromochloromethane	ug/L	50	55.2	110	70-130	
Dibromomethane	ug/L	50	52.6	105	70-131	
Dichlorodifluoromethane	ug/L	50	72.1	144	56-130	L3
Diisopropyl ether	ug/L	50	49.8	100	70-130	
Ethylbenzene	ug/L	50	51.4	103	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.6	93	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	50.3	101	70-130	
Methylene Chloride	ug/L	50	55.1	110	63-130	
Naphthalene	ug/L	50	51.3	103	70-138	
o-Xylene	ug/L	50	49.2	98	70-130	
p-Isopropyltoluene	ug/L	50	51.5	103	70-130	
Styrene	ug/L	50	51.1	102	70-130	
Tetrachloroethene	ug/L	50	50.8	102	70-130	
Toluene	ug/L	50	53.0	106	70-130	
trans-1,2-Dichloroethene	ug/L	50	57.6	115	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.8	108	70-132	
Trichloroethene	ug/L	50	53.1	106	70-130	
Trichlorofluoromethane	ug/L	50	64.1	128	62-133	
Vinyl acetate	ug/L	100	102	102	66-157	
Vinyl chloride	ug/L	50	53.0	106	50-150	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

QC Batch: MSV/29682
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92229483012

METHOD BLANK: 1354048
Matrix: Solid
Associated Lab Samples: 92229483012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	4.9	12/17/14 17:23	
1,1,1-Trichloroethane	ug/kg	ND	4.9	12/17/14 17:23	
1,1,2,2-Tetrachloroethane	ug/kg	ND	4.9	12/17/14 17:23	
1,1,2-Trichloroethane	ug/kg	ND	4.9	12/17/14 17:23	
1,1-Dichloroethane	ug/kg	ND	4.9	12/17/14 17:23	
1,1-Dichloroethene	ug/kg	ND	4.9	12/17/14 17:23	
1,1-Dichloropropene	ug/kg	ND	4.9	12/17/14 17:23	
1,2,3-Trichlorobenzene	ug/kg	ND	4.9	12/17/14 17:23	
1,2,3-Trichloropropane	ug/kg	ND	4.9	12/17/14 17:23	
1,2,4-Trichlorobenzene	ug/kg	ND	4.9	12/17/14 17:23	
1,2,4-Trimethylbenzene	ug/kg	ND	4.9	12/17/14 17:23	
1,2-Dibromo-3-chloropropane	ug/kg	ND	4.9	12/17/14 17:23	
1,2-Dibromoethane (EDB)	ug/kg	ND	4.9	12/17/14 17:23	
1,2-Dichlorobenzene	ug/kg	ND	4.9	12/17/14 17:23	
1,2-Dichloroethane	ug/kg	ND	4.9	12/17/14 17:23	
1,2-Dichloropropane	ug/kg	ND	4.9	12/17/14 17:23	
1,3,5-Trimethylbenzene	ug/kg	ND	4.9	12/17/14 17:23	
1,3-Dichlorobenzene	ug/kg	ND	4.9	12/17/14 17:23	
1,3-Dichloropropane	ug/kg	ND	4.9	12/17/14 17:23	
1,4-Dichlorobenzene	ug/kg	ND	4.9	12/17/14 17:23	
2,2-Dichloropropane	ug/kg	ND	4.9	12/17/14 17:23	
2-Butanone (MEK)	ug/kg	ND	98.4	12/17/14 17:23	
2-Chlorotoluene	ug/kg	ND	4.9	12/17/14 17:23	
2-Hexanone	ug/kg	ND	49.2	12/17/14 17:23	
4-Chlorotoluene	ug/kg	ND	4.9	12/17/14 17:23	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	49.2	12/17/14 17:23	
Acetone	ug/kg	ND	98.4	12/17/14 17:23	
Benzene	ug/kg	ND	4.9	12/17/14 17:23	
Bromobenzene	ug/kg	ND	4.9	12/17/14 17:23	
Bromochloromethane	ug/kg	ND	4.9	12/17/14 17:23	
Bromodichloromethane	ug/kg	ND	4.9	12/17/14 17:23	
Bromoform	ug/kg	ND	4.9	12/17/14 17:23	
Bromomethane	ug/kg	ND	9.8	12/17/14 17:23	
Carbon tetrachloride	ug/kg	ND	4.9	12/17/14 17:23	
Chlorobenzene	ug/kg	ND	4.9	12/17/14 17:23	
Chloroethane	ug/kg	ND	9.8	12/17/14 17:23	
Chloroform	ug/kg	ND	4.9	12/17/14 17:23	
Chloromethane	ug/kg	ND	9.8	12/17/14 17:23	
cis-1,2-Dichloroethene	ug/kg	ND	4.9	12/17/14 17:23	
cis-1,3-Dichloropropene	ug/kg	ND	4.9	12/17/14 17:23	
Dibromochloromethane	ug/kg	ND	4.9	12/17/14 17:23	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

METHOD BLANK: 1354048 Matrix: Solid
Associated Lab Samples: 92229483012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	4.9	12/17/14 17:23	
Dichlorodifluoromethane	ug/kg	ND	9.8	12/17/14 17:23	
Diisopropyl ether	ug/kg	ND	4.9	12/17/14 17:23	
Ethylbenzene	ug/kg	ND	4.9	12/17/14 17:23	
Hexachloro-1,3-butadiene	ug/kg	ND	4.9	12/17/14 17:23	
Isopropylbenzene (Cumene)	ug/kg	ND	4.9	12/17/14 17:23	
m&p-Xylene	ug/kg	ND	9.8	12/17/14 17:23	
Methyl-tert-butyl ether	ug/kg	ND	4.9	12/17/14 17:23	
Methylene Chloride	ug/kg	ND	19.7	12/17/14 17:23	
n-Butylbenzene	ug/kg	ND	4.9	12/17/14 17:23	
n-Propylbenzene	ug/kg	ND	4.9	12/17/14 17:23	
Naphthalene	ug/kg	ND	4.9	12/17/14 17:23	
o-Xylene	ug/kg	ND	4.9	12/17/14 17:23	
p-Isopropyltoluene	ug/kg	ND	4.9	12/17/14 17:23	
sec-Butylbenzene	ug/kg	ND	4.9	12/17/14 17:23	
Styrene	ug/kg	ND	4.9	12/17/14 17:23	
tert-Butylbenzene	ug/kg	ND	4.9	12/17/14 17:23	
Tetrachloroethene	ug/kg	ND	4.9	12/17/14 17:23	
Toluene	ug/kg	ND	4.9	12/17/14 17:23	
trans-1,2-Dichloroethene	ug/kg	ND	4.9	12/17/14 17:23	
trans-1,3-Dichloropropene	ug/kg	ND	4.9	12/17/14 17:23	
Trichloroethene	ug/kg	ND	4.9	12/17/14 17:23	
Trichlorofluoromethane	ug/kg	ND	4.9	12/17/14 17:23	
Vinyl acetate	ug/kg	ND	49.2	12/17/14 17:23	
Vinyl chloride	ug/kg	ND	9.8	12/17/14 17:23	
Xylene (Total)	ug/kg	ND	9.8	12/17/14 17:23	
1,2-Dichloroethane-d4 (S)	%	98	70-132	12/17/14 17:23	
4-Bromofluorobenzene (S)	%	98	70-130	12/17/14 17:23	
Toluene-d8 (S)	%	99	70-130	12/17/14 17:23	

LABORATORY CONTROL SAMPLE: 1354049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	51.2	57.2	112	74-137	
1,1,1-Trichloroethane	ug/kg	51.2	54.8	107	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	51.2	58.2	114	72-141	
1,1,2-Trichloroethane	ug/kg	51.2	56.9	111	78-138	
1,1-Dichloroethane	ug/kg	51.2	53.0	104	69-134	
1,1-Dichloroethene	ug/kg	51.2	52.3	102	67-138	
1,1-Dichloropropene	ug/kg	51.2	55.1	107	69-139	
1,2,3-Trichlorobenzene	ug/kg	51.2	57.3	112	70-146	
1,2,3-Trichloropropane	ug/kg	51.2	58.0	113	69-144	
1,2,4-Trichlorobenzene	ug/kg	51.2	58.1	113	68-148	
1,2,4-Trimethylbenzene	ug/kg	51.2	59.9	117	74-137	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

LABORATORY CONTROL SAMPLE: 1354049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	51.2	60.6	118	65-140	
1,2-Dibromoethane (EDB)	ug/kg	51.2	56.4	110	77-135	
1,2-Dichlorobenzene	ug/kg	51.2	58.4	114	77-141	
1,2-Dichloroethane	ug/kg	51.2	54.4	106	65-137	
1,2-Dichloropropane	ug/kg	51.2	55.3	108	72-136	
1,3,5-Trimethylbenzene	ug/kg	51.2	58.2	114	76-133	
1,3-Dichlorobenzene	ug/kg	51.2	59.6	116	74-138	
1,3-Dichloropropane	ug/kg	51.2	56.9	111	71-139	
1,4-Dichlorobenzene	ug/kg	51.2	60.7	119	76-138	
2,2-Dichloropropane	ug/kg	51.2	54.4	106	68-137	
2-Butanone (MEK)	ug/kg	102	104	102	58-147	
2-Chlorotoluene	ug/kg	51.2	61.4	120	73-139	
2-Hexanone	ug/kg	102	114	112	62-145	
4-Chlorotoluene	ug/kg	51.2	59.9	117	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	102	118	115	64-149	
Acetone	ug/kg	102	ND	100	53-153	
Benzene	ug/kg	51.2	54.9	107	73-135	
Bromobenzene	ug/kg	51.2	59.8	117	75-133	
Bromochloromethane	ug/kg	51.2	55.0	107	73-134	
Bromodichloromethane	ug/kg	51.2	57.5	112	71-135	
Bromoform	ug/kg	51.2	63.3	123	66-141	
Bromomethane	ug/kg	51.2	55.2	108	53-160	
Carbon tetrachloride	ug/kg	51.2	55.8	109	60-145	
Chlorobenzene	ug/kg	51.2	57.8	113	78-130	
Chloroethane	ug/kg	51.2	53.2	104	64-149	
Chloroform	ug/kg	51.2	56.5	110	70-134	
Chloromethane	ug/kg	51.2	49.4	96	52-150	
cis-1,2-Dichloroethene	ug/kg	51.2	55.8	109	70-133	
cis-1,3-Dichloropropene	ug/kg	51.2	56.0	109	68-134	
Dibromochloromethane	ug/kg	51.2	63.1	123	71-138	
Dibromomethane	ug/kg	51.2	55.8	109	74-130	
Dichlorodifluoromethane	ug/kg	51.2	50.6	99	40-160	
Diisopropyl ether	ug/kg	51.2	51.3	100	69-141	
Ethylbenzene	ug/kg	51.2	57.5	112	75-133	
Hexachloro-1,3-butadiene	ug/kg	51.2	55.1	108	68-143	
Isopropylbenzene (Cumene)	ug/kg	51.2	58.4	114	76-143	
m&p-Xylene	ug/kg	102	116	113	75-136	
Methyl-tert-butyl ether	ug/kg	51.2	50.4	98	68-144	
Methylene Chloride	ug/kg	51.2	56.6	110	45-154	
n-Butylbenzene	ug/kg	51.2	62.7	122	72-137	
n-Propylbenzene	ug/kg	51.2	58.3	114	76-136	
Naphthalene	ug/kg	51.2	59.7	117	68-151	
o-Xylene	ug/kg	51.2	55.7	109	76-141	
p-Isopropyltoluene	ug/kg	51.2	58.9	115	76-140	
sec-Butylbenzene	ug/kg	51.2	59.4	116	79-139	
Styrene	ug/kg	51.2	59.3	116	79-137	
tert-Butylbenzene	ug/kg	51.2	51.7	101	74-143	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

LABORATORY CONTROL SAMPLE: 1354049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	51.2	53.4	104	71-138	
Toluene	ug/kg	51.2	55.4	108	74-131	
trans-1,2-Dichloroethene	ug/kg	51.2	54.2	106	67-135	
trans-1,3-Dichloropropene	ug/kg	51.2	58.2	114	65-146	
Trichloroethene	ug/kg	51.2	54.3	106	67-135	
Trichlorofluoromethane	ug/kg	51.2	54.4	106	59-144	
Vinyl acetate	ug/kg	102	103	101	40-160	F3
Vinyl chloride	ug/kg	51.2	48.2	94	56-141	
Xylene (Total)	ug/kg	154	171	111	76-137	
1,2-Dichloroethane-d4 (S)	%			103	70-132	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1355050

Parameter	Units	92229483012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	16.2	15.8	98	70-130	
1,1,1-Trichloroethane	ug/kg	ND	16.2	14.9	92	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	16.2	18.2	112	70-130	
1,1,2-Trichloroethane	ug/kg	ND	16.2	18.1	111	70-130	
1,1-Dichloroethane	ug/kg	ND	16.2	15.5	96	70-130	
1,1-Dichloroethene	ug/kg	ND	16.2	14.9	92	49-180	
1,1-Dichloropropene	ug/kg	ND	16.2	14.3	88	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	16.2	16.1	99	70-130	
1,2,3-Trichloropropane	ug/kg	ND	16.2	19.7	121	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	16.2	15.2	94	70-130	
1,2,4-Trimethylbenzene	ug/kg	ND	16.2	15.3	94	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	16.2	21.2	131	70-130	M1
1,2-Dibromoethane (EDB)	ug/kg	ND	16.2	17.5	108	70-130	
1,2-Dichlorobenzene	ug/kg	ND	16.2	16.3	100	70-130	
1,2-Dichloroethane	ug/kg	ND	16.2	17.6	108	70-130	
1,2-Dichloropropane	ug/kg	ND	16.2	15.6	96	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	16.2	14.6	90	70-130	
1,3-Dichlorobenzene	ug/kg	ND	16.2	15.1	93	70-130	
1,3-Dichloropropane	ug/kg	ND	16.2	16.8	104	70-130	
1,4-Dichlorobenzene	ug/kg	ND	16.2	15.2	94	70-130	
2,2-Dichloropropane	ug/kg	ND	16.2	14.6	90	70-130	
2-Butanone (MEK)	ug/kg	ND	32.5	34.8J	107	70-130	
2-Chlorotoluene	ug/kg	ND	16.2	15.7	97	70-130	
2-Hexanone	ug/kg	ND	32.5	36.3J	112	70-130	
4-Chlorotoluene	ug/kg	ND	16.2	14.7	91	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	32.5	41.4	128	70-130	
Acetone	ug/kg	ND	32.5	32.4J	100	70-130	
Benzene	ug/kg	ND	16.2	14.9	92	50-166	
Bromobenzene	ug/kg	ND	16.2	15.8	97	70-130	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

MATRIX SPIKE SAMPLE: 1355050

Parameter	Units	92229483012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromochloromethane	ug/kg	ND	16.2	18.0	111	70-130	
Bromodichloromethane	ug/kg	ND	16.2	16.8	103	70-130	
Bromoform	ug/kg	ND	16.2	17.8	110	70-130	
Bromomethane	ug/kg	ND	16.2	16.5	102	70-130	
Carbon tetrachloride	ug/kg	ND	16.2	14.4	88	70-130	
Chlorobenzene	ug/kg	ND	16.2	15.2	93	43-169	
Chloroethane	ug/kg	ND	16.2	15.7	97	70-130	
Chloroform	ug/kg	ND	16.2	17.2	106	70-130	
Chloromethane	ug/kg	ND	16.2	14.3	88	70-130	
cis-1,2-Dichloroethene	ug/kg	ND	16.2	16.6	102	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	16.2	15.7	97	70-130	
Dibromochloromethane	ug/kg	ND	16.2	17.6	109	70-130	
Dibromomethane	ug/kg	ND	16.2	17.8	109	70-130	
Dichlorodifluoromethane	ug/kg	ND	16.2	17.0	105	70-130	
Diisopropyl ether	ug/kg	ND	16.2	15.0	93	70-130	
Ethylbenzene	ug/kg	ND	16.2	14.3	88	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	16.2	12.7	78	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	16.2	14.2	88	70-130	
m&p-Xylene	ug/kg	ND	32.5	29.2	90	70-130	
Methyl-tert-butyl ether	ug/kg	ND	16.2	17.7	109	70-130	
Methylene Chloride	ug/kg	ND	16.2	11.9J	35	70-130	M1
n-Butylbenzene	ug/kg	ND	16.2	14.7	91	70-130	
n-Propylbenzene	ug/kg	ND	16.2	14.5	89	70-130	
Naphthalene	ug/kg	ND	16.2	23.2	143	70-130	M1
o-Xylene	ug/kg	ND	16.2	14.0	87	70-130	
p-Isopropyltoluene	ug/kg	ND	16.2	14.2	88	70-130	
sec-Butylbenzene	ug/kg	ND	16.2	14.3	88	70-130	
Styrene	ug/kg	ND	16.2	15.0	92	70-130	
tert-Butylbenzene	ug/kg	ND	16.2	12.6	78	70-130	
Tetrachloroethene	ug/kg	ND	16.2	12.5	77	70-130	
Toluene	ug/kg	ND	16.2	15.0	92	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	16.2	14.7	91	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	16.2	16.9	104	70-130	
Trichloroethene	ug/kg	ND	16.2	14.2	88	49-167	
Trichlorofluoromethane	ug/kg	ND	16.2	15.4	95	70-130	
Vinyl acetate	ug/kg	ND	32.5	36.6J	113	70-130	
Vinyl chloride	ug/kg	ND	16.2	13.8	85	70-130	
1,2-Dichloroethane-d4 (S)	%				118	70-132	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 1355049

Parameter	Units	92229338006 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

SAMPLE DUPLICATE: 1355049

Parameter	Units	92229338006 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	67.4J		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

SAMPLE DUPLICATE: 1355049

Parameter	Units	92229338006 Result	Dup Result	RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	ND	ND		
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	124	166	31	S3
4-Bromofluorobenzene (S)	%	99	100	3	
Toluene-d8 (S)	%	103	102	1	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

QC Batch: MSV/29703 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92229483013, 92229483014, 92229483015, 92229483016

METHOD BLANK: 1355747 Matrix: Solid
Associated Lab Samples: 92229483013, 92229483014, 92229483015, 92229483016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	6.3	12/18/14 17:19	
1,1,1-Trichloroethane	ug/kg	ND	6.3	12/18/14 17:19	
1,1,2,2-Tetrachloroethane	ug/kg	ND	6.3	12/18/14 17:19	
1,1,2-Trichloroethane	ug/kg	ND	6.3	12/18/14 17:19	
1,1-Dichloroethane	ug/kg	ND	6.3	12/18/14 17:19	
1,1-Dichloroethene	ug/kg	ND	6.3	12/18/14 17:19	
1,1-Dichloropropene	ug/kg	ND	6.3	12/18/14 17:19	
1,2,3-Trichlorobenzene	ug/kg	ND	6.3	12/18/14 17:19	
1,2,3-Trichloropropane	ug/kg	ND	6.3	12/18/14 17:19	
1,2,4-Trichlorobenzene	ug/kg	ND	6.3	12/18/14 17:19	
1,2,4-Trimethylbenzene	ug/kg	ND	6.3	12/18/14 17:19	
1,2-Dibromo-3-chloropropane	ug/kg	ND	6.3	12/18/14 17:19	
1,2-Dibromoethane (EDB)	ug/kg	ND	6.3	12/18/14 17:19	
1,2-Dichlorobenzene	ug/kg	ND	6.3	12/18/14 17:19	
1,2-Dichloroethane	ug/kg	ND	6.3	12/18/14 17:19	
1,2-Dichloropropane	ug/kg	ND	6.3	12/18/14 17:19	
1,3,5-Trimethylbenzene	ug/kg	ND	6.3	12/18/14 17:19	
1,3-Dichlorobenzene	ug/kg	ND	6.3	12/18/14 17:19	
1,3-Dichloropropane	ug/kg	ND	6.3	12/18/14 17:19	
1,4-Dichlorobenzene	ug/kg	ND	6.3	12/18/14 17:19	
2,2-Dichloropropane	ug/kg	ND	6.3	12/18/14 17:19	
2-Butanone (MEK)	ug/kg	ND	126	12/18/14 17:19	
2-Chlorotoluene	ug/kg	ND	6.3	12/18/14 17:19	
2-Hexanone	ug/kg	ND	63.0	12/18/14 17:19	
4-Chlorotoluene	ug/kg	ND	6.3	12/18/14 17:19	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	63.0	12/18/14 17:19	
Acetone	ug/kg	ND	126	12/18/14 17:19	
Benzene	ug/kg	ND	6.3	12/18/14 17:19	
Bromobenzene	ug/kg	ND	6.3	12/18/14 17:19	
Bromochloromethane	ug/kg	ND	6.3	12/18/14 17:19	
Bromodichloromethane	ug/kg	ND	6.3	12/18/14 17:19	
Bromoform	ug/kg	ND	6.3	12/18/14 17:19	
Bromomethane	ug/kg	ND	12.6	12/18/14 17:19	
Carbon tetrachloride	ug/kg	ND	6.3	12/18/14 17:19	
Chlorobenzene	ug/kg	ND	6.3	12/18/14 17:19	
Chloroethane	ug/kg	ND	12.6	12/18/14 17:19	
Chloroform	ug/kg	ND	6.3	12/18/14 17:19	
Chloromethane	ug/kg	ND	12.6	12/18/14 17:19	
cis-1,2-Dichloroethene	ug/kg	ND	6.3	12/18/14 17:19	
cis-1,3-Dichloropropene	ug/kg	ND	6.3	12/18/14 17:19	
Dibromochloromethane	ug/kg	ND	6.3	12/18/14 17:19	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

METHOD BLANK: 1355747 Matrix: Solid
Associated Lab Samples: 92229483013, 92229483014, 92229483015, 92229483016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	6.3	12/18/14 17:19	
Dichlorodifluoromethane	ug/kg	ND	12.6	12/18/14 17:19	
Diisopropyl ether	ug/kg	ND	6.3	12/18/14 17:19	
Ethylbenzene	ug/kg	ND	6.3	12/18/14 17:19	
Hexachloro-1,3-butadiene	ug/kg	ND	6.3	12/18/14 17:19	
Isopropylbenzene (Cumene)	ug/kg	ND	6.3	12/18/14 17:19	
m&p-Xylene	ug/kg	ND	12.6	12/18/14 17:19	
Methyl-tert-butyl ether	ug/kg	ND	6.3	12/18/14 17:19	
Methylene Chloride	ug/kg	ND	25.2	12/18/14 17:19	
n-Butylbenzene	ug/kg	ND	6.3	12/18/14 17:19	
n-Propylbenzene	ug/kg	ND	6.3	12/18/14 17:19	
Naphthalene	ug/kg	ND	6.3	12/18/14 17:19	
o-Xylene	ug/kg	ND	6.3	12/18/14 17:19	
p-Isopropyltoluene	ug/kg	ND	6.3	12/18/14 17:19	
sec-Butylbenzene	ug/kg	ND	6.3	12/18/14 17:19	
Styrene	ug/kg	ND	6.3	12/18/14 17:19	
tert-Butylbenzene	ug/kg	ND	6.3	12/18/14 17:19	
Tetrachloroethene	ug/kg	ND	6.3	12/18/14 17:19	
Toluene	ug/kg	ND	6.3	12/18/14 17:19	
trans-1,2-Dichloroethene	ug/kg	ND	6.3	12/18/14 17:19	
trans-1,3-Dichloropropene	ug/kg	ND	6.3	12/18/14 17:19	
Trichloroethene	ug/kg	ND	6.3	12/18/14 17:19	
Trichlorofluoromethane	ug/kg	ND	6.3	12/18/14 17:19	
Vinyl acetate	ug/kg	ND	63.0	12/18/14 17:19	
Vinyl chloride	ug/kg	ND	12.6	12/18/14 17:19	
Xylene (Total)	ug/kg	ND	12.6	12/18/14 17:19	
1,2-Dichloroethane-d4 (S)	%	102	70-132	12/18/14 17:19	
4-Bromofluorobenzene (S)	%	97	70-130	12/18/14 17:19	
Toluene-d8 (S)	%	99	70-130	12/18/14 17:19	

LABORATORY CONTROL SAMPLE: 1355748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	52.7	57.7	109	74-137	
1,1,1-Trichloroethane	ug/kg	52.7	59.4	113	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	52.7	52.1	99	72-141	
1,1,2-Trichloroethane	ug/kg	52.7	56.0	106	78-138	
1,1-Dichloroethane	ug/kg	52.7	56.5	107	69-134	
1,1-Dichloroethene	ug/kg	52.7	54.1	102	67-138	
1,1-Dichloropropene	ug/kg	52.7	58.4	111	69-139	
1,2,3-Trichlorobenzene	ug/kg	52.7	57.6	109	70-146	
1,2,3-Trichloropropane	ug/kg	52.7	60.0	114	69-144	
1,2,4-Trichlorobenzene	ug/kg	52.7	58.4	111	68-148	
1,2,4-Trimethylbenzene	ug/kg	52.7	59.6	113	74-137	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

LABORATORY CONTROL SAMPLE: 1355748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	52.7	59.1	112	65-140	
1,2-Dibromoethane (EDB)	ug/kg	52.7	59.1	112	77-135	
1,2-Dichlorobenzene	ug/kg	52.7	59.4	113	77-141	
1,2-Dichloroethane	ug/kg	52.7	60.0	114	65-137	
1,2-Dichloropropane	ug/kg	52.7	57.5	109	72-136	
1,3,5-Trimethylbenzene	ug/kg	52.7	58.9	112	76-133	
1,3-Dichlorobenzene	ug/kg	52.7	58.7	111	74-138	
1,3-Dichloropropane	ug/kg	52.7	57.5	109	71-139	
1,4-Dichlorobenzene	ug/kg	52.7	59.3	113	76-138	
2,2-Dichloropropane	ug/kg	52.7	57.4	109	68-137	
2-Butanone (MEK)	ug/kg	105	109	103	58-147	
2-Chlorotoluene	ug/kg	52.7	55.6	105	73-139	
2-Hexanone	ug/kg	105	106	100	62-145	
4-Chlorotoluene	ug/kg	52.7	59.1	112	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	105	115	109	64-149	
Acetone	ug/kg	105	102J	97	53-153	
Benzene	ug/kg	52.7	58.9	112	73-135	
Bromobenzene	ug/kg	52.7	52.9	100	75-133	
Bromochloromethane	ug/kg	52.7	57.7	109	73-134	
Bromodichloromethane	ug/kg	52.7	61.0	116	71-135	
Bromoform	ug/kg	52.7	60.5	115	66-141	
Bromomethane	ug/kg	52.7	68.0	129	53-160	
Carbon tetrachloride	ug/kg	52.7	60.7	115	60-145	
Chlorobenzene	ug/kg	52.7	58.9	112	78-130	
Chloroethane	ug/kg	52.7	57.0	108	64-149	
Chloroform	ug/kg	52.7	61.1	116	70-134	
Chloromethane	ug/kg	52.7	55.5	105	52-150	
cis-1,2-Dichloroethene	ug/kg	52.7	60.6	115	70-133	
cis-1,3-Dichloropropene	ug/kg	52.7	57.3	109	68-134	
Dibromochloromethane	ug/kg	52.7	63.7	121	71-138	
Dibromomethane	ug/kg	52.7	60.9	115	74-130	
Dichlorodifluoromethane	ug/kg	52.7	59.4	113	40-160	
Diisopropyl ether	ug/kg	52.7	51.2	97	69-141	
Ethylbenzene	ug/kg	52.7	58.7	111	75-133	
Hexachloro-1,3-butadiene	ug/kg	52.7	55.5	105	68-143	
Isopropylbenzene (Cumene)	ug/kg	52.7	59.2	112	76-143	
m&p-Xylene	ug/kg	105	118	112	75-136	
Methyl-tert-butyl ether	ug/kg	52.7	52.4	99	68-144	
Methylene Chloride	ug/kg	52.7	53.6	102	45-154	
n-Butylbenzene	ug/kg	52.7	61.4	116	72-137	
n-Propylbenzene	ug/kg	52.7	58.4	111	76-136	
Naphthalene	ug/kg	52.7	66.5	126	68-151	
o-Xylene	ug/kg	52.7	55.5	105	76-141	
p-Isopropyltoluene	ug/kg	52.7	58.8	112	76-140	
sec-Butylbenzene	ug/kg	52.7	58.5	111	79-139	
Styrene	ug/kg	52.7	58.6	111	79-137	
tert-Butylbenzene	ug/kg	52.7	51.8	98	74-143	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

LABORATORY CONTROL SAMPLE: 1355748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	52.7	54.6	104	71-138	
Toluene	ug/kg	52.7	58.1	110	74-131	
trans-1,2-Dichloroethene	ug/kg	52.7	56.4	107	67-135	
trans-1,3-Dichloropropene	ug/kg	52.7	58.3	111	65-146	
Trichloroethene	ug/kg	52.7	61.1	116	67-135	
Trichlorofluoromethane	ug/kg	52.7	57.4	109	59-144	
Vinyl acetate	ug/kg	105	74.8	71	40-160	F3
Vinyl chloride	ug/kg	52.7	52.1	99	56-141	
Xylene (Total)	ug/kg	158	174	110	76-137	
1,2-Dichloroethane-d4 (S)	%			101	70-132	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 1356205

Parameter	Units	92229349003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	17.6	17.7	101	70-130	
1,1,1-Trichloroethane	ug/kg	ND	17.6	18.7	107	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	ND	17.6	17.8	102	70-130	
1,1,2-Trichloroethane	ug/kg	ND	17.6	17.6	101	70-130	
1,1-Dichloroethane	ug/kg	ND	17.6	17.5	100	70-130	
1,1-Dichloroethene	ug/kg	ND	17.6	17.0	97	49-180	
1,1-Dichloropropene	ug/kg	ND	17.6	17.6	101	70-130	
1,2,3-Trichlorobenzene	ug/kg	ND	17.6	17.1	97	70-130	
1,2,3-Trichloropropane	ug/kg	ND	17.6	19.0	108	70-130	
1,2,4-Trichlorobenzene	ug/kg	ND	17.6	17.5	100	70-130	
1,2,4-Trimethylbenzene	ug/kg	ND	17.6	19.4	111	70-130	
1,2-Dibromo-3-chloropropane	ug/kg	ND	17.6	18.7	107	70-130	
1,2-Dibromoethane (EDB)	ug/kg	ND	17.6	17.6	100	70-130	
1,2-Dichlorobenzene	ug/kg	ND	17.6	18.5	105	70-130	
1,2-Dichloroethane	ug/kg	ND	17.6	17.9	102	70-130	
1,2-Dichloropropane	ug/kg	ND	17.6	17.7	101	70-130	
1,3,5-Trimethylbenzene	ug/kg	ND	17.6	19.2	110	70-130	
1,3-Dichlorobenzene	ug/kg	ND	17.6	18.7	107	70-130	
1,3-Dichloropropane	ug/kg	ND	17.6	17.8	102	70-130	
1,4-Dichlorobenzene	ug/kg	ND	17.6	18.9	108	70-130	
2,2-Dichloropropane	ug/kg	ND	17.6	17.9	102	70-130	
2-Butanone (MEK)	ug/kg	ND	35.1	26.7J	76	70-130	
2-Chlorotoluene	ug/kg	ND	17.6	17.9	102	70-130	
2-Hexanone	ug/kg	ND	35.1	29.8J	85	70-130	
4-Chlorotoluene	ug/kg	ND	17.6	19.1	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	35.1	33.7J	96	70-130	
Acetone	ug/kg	ND	35.1	29J	83	70-130	
Benzene	ug/kg	ND	17.6	18.1	103	50-166	
Bromobenzene	ug/kg	ND	17.6	18.9	108	70-130	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

MATRIX SPIKE SAMPLE: 1356205

Parameter	Units	92229349003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromochloromethane	ug/kg	ND	17.6	19.1	109	70-130	
Bromodichloromethane	ug/kg	ND	17.6	18.7	106	70-130	
Bromoform	ug/kg	ND	17.6	17.7	101	70-130	
Bromomethane	ug/kg	ND	17.6	15.8	90	70-130	
Carbon tetrachloride	ug/kg	ND	17.6	18.9	107	70-130	
Chlorobenzene	ug/kg	ND	17.6	18.9	108	43-169	
Chloroethane	ug/kg	ND	17.6	15.2	87	70-130	
Chloroform	ug/kg	ND	17.6	19.5	111	70-130	
Chloromethane	ug/kg	ND	17.6	10.7	61	70-130	M1
cis-1,2-Dichloroethene	ug/kg	ND	17.6	19.3	110	70-130	
cis-1,3-Dichloropropene	ug/kg	ND	17.6	17.3	99	70-130	
Dibromochloromethane	ug/kg	ND	17.6	17.9	102	70-130	
Dibromomethane	ug/kg	ND	17.6	18.1	103	70-130	
Dichlorodifluoromethane	ug/kg	ND	17.6	7.7J	44	70-130	M1
Diisopropyl ether	ug/kg	ND	17.6	15.2	86	70-130	
Ethylbenzene	ug/kg	ND	17.6	19.0	109	70-130	
Hexachloro-1,3-butadiene	ug/kg	ND	17.6	17.7	101	70-130	
Isopropylbenzene (Cumene)	ug/kg	ND	17.6	19.3	110	70-130	
m&p-Xylene	ug/kg	ND	35.1	38.4	109	70-130	
Methyl-tert-butyl ether	ug/kg	ND	17.6	15.8	90	70-130	
Methylene Chloride	ug/kg	ND	17.6	12.7J	72	70-130	
n-Butylbenzene	ug/kg	ND	17.6	19.9	113	70-130	
n-Propylbenzene	ug/kg	ND	17.6	20.0	114	70-130	
Naphthalene	ug/kg	ND	17.6	19.8	113	70-130	
o-Xylene	ug/kg	ND	17.6	17.7	101	70-130	
p-Isopropyltoluene	ug/kg	ND	17.6	19.3	110	70-130	
sec-Butylbenzene	ug/kg	ND	17.6	19.7	113	70-130	
Styrene	ug/kg	ND	17.6	18.6	106	70-130	
tert-Butylbenzene	ug/kg	ND	17.6	17.2	98	70-130	
Tetrachloroethene	ug/kg	ND	17.6	17.8	102	70-130	
Toluene	ug/kg	ND	17.6	18.5	105	52-163	
trans-1,2-Dichloroethene	ug/kg	ND	17.6	17.1	98	70-130	
trans-1,3-Dichloropropene	ug/kg	ND	17.6	17.1	98	70-130	
Trichloroethene	ug/kg	ND	17.6	17.8	101	49-167	
Trichlorofluoromethane	ug/kg	ND	17.6	17.2	98	70-130	
Vinyl acetate	ug/kg	ND	35.1	23.3J	66	70-130	M1
Vinyl chloride	ug/kg	ND	17.6	12.2	70	70-130	
1,2-Dichloroethane-d4 (S)	%				107	70-132	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1356206

Parameter	Units	92229483016 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

SAMPLE DUPLICATE: 1356206

Parameter	Units	92229483016 Result	Dup Result	RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	ND		
1,1,2,2-Tetrachloroethane	ug/kg	ND	ND		
1,1,2-Trichloroethane	ug/kg	ND	ND		
1,1-Dichloroethane	ug/kg	ND	ND		
1,1-Dichloroethene	ug/kg	ND	ND		
1,1-Dichloropropene	ug/kg	ND	ND		
1,2,3-Trichlorobenzene	ug/kg	ND	ND		
1,2,3-Trichloropropane	ug/kg	ND	ND		
1,2,4-Trichlorobenzene	ug/kg	ND	ND		
1,2,4-Trimethylbenzene	ug/kg	ND	ND		
1,2-Dibromo-3-chloropropane	ug/kg	ND	ND		
1,2-Dibromoethane (EDB)	ug/kg	ND	ND		
1,2-Dichlorobenzene	ug/kg	ND	ND		
1,2-Dichloroethane	ug/kg	ND	ND		
1,2-Dichloropropane	ug/kg	ND	ND		
1,3,5-Trimethylbenzene	ug/kg	ND	ND		
1,3-Dichlorobenzene	ug/kg	ND	ND		
1,3-Dichloropropane	ug/kg	ND	ND		
1,4-Dichlorobenzene	ug/kg	ND	ND		
2,2-Dichloropropane	ug/kg	ND	ND		
2-Butanone (MEK)	ug/kg	ND	ND		
2-Chlorotoluene	ug/kg	ND	ND		
2-Hexanone	ug/kg	ND	ND		
4-Chlorotoluene	ug/kg	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	ND		
Acetone	ug/kg	ND	ND		
Benzene	ug/kg	ND	ND		
Bromobenzene	ug/kg	ND	ND		
Bromochloromethane	ug/kg	ND	ND		
Bromodichloromethane	ug/kg	ND	ND		
Bromoform	ug/kg	ND	ND		
Bromomethane	ug/kg	ND	ND		
Carbon tetrachloride	ug/kg	ND	ND		
Chlorobenzene	ug/kg	ND	ND		
Chloroethane	ug/kg	ND	ND		
Chloroform	ug/kg	ND	ND		
Chloromethane	ug/kg	ND	ND		
cis-1,2-Dichloroethene	ug/kg	ND	ND		
cis-1,3-Dichloropropene	ug/kg	ND	ND		
Dibromochloromethane	ug/kg	ND	ND		
Dibromomethane	ug/kg	ND	ND		
Dichlorodifluoromethane	ug/kg	ND	ND		
Diisopropyl ether	ug/kg	ND	ND		
Ethylbenzene	ug/kg	ND	ND		
Hexachloro-1,3-butadiene	ug/kg	ND	ND		
Isopropylbenzene (Cumene)	ug/kg	ND	ND		
m&p-Xylene	ug/kg	ND	ND		

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

SAMPLE DUPLICATE: 1356206

Parameter	Units	92229483016 Result	Dup Result	RPD	Qualifiers
Methyl-tert-butyl ether	ug/kg	ND	ND		
Methylene Chloride	ug/kg	ND	ND		
n-Butylbenzene	ug/kg	ND	ND		
n-Propylbenzene	ug/kg	ND	ND		
Naphthalene	ug/kg	ND	ND		
o-Xylene	ug/kg	ND	ND		
p-Isopropyltoluene	ug/kg	ND	ND		
sec-Butylbenzene	ug/kg	ND	ND		
Styrene	ug/kg	ND	ND		
tert-Butylbenzene	ug/kg	ND	ND		
Tetrachloroethene	ug/kg	ND	ND		
Toluene	ug/kg	ND	ND		
trans-1,2-Dichloroethene	ug/kg	ND	ND		
trans-1,3-Dichloropropene	ug/kg	ND	ND		
Trichloroethene	ug/kg	33.3	34.2	2	
Trichlorofluoromethane	ug/kg	ND	ND		
Vinyl acetate	ug/kg	ND	ND		
Vinyl chloride	ug/kg	ND	ND		
Xylene (Total)	ug/kg	ND	ND		
1,2-Dichloroethane-d4 (S)	%	128	124	2	
4-Bromofluorobenzene (S)	%	102	105	5	
Toluene-d8 (S)	%	102	100	1	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

QC Batch: MSV/29716 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92229483017

METHOD BLANK: 1356262 | Matrix: Solid
Associated Lab Samples: 92229483017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.9	12/19/14 11:14	
1,1,1-Trichloroethane	ug/kg	ND	5.9	12/19/14 11:14	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.9	12/19/14 11:14	
1,1,2-Trichloroethane	ug/kg	ND	5.9	12/19/14 11:14	
1,1-Dichloroethane	ug/kg	ND	5.9	12/19/14 11:14	
1,1-Dichloroethene	ug/kg	ND	5.9	12/19/14 11:14	
1,1-Dichloropropene	ug/kg	ND	5.9	12/19/14 11:14	
1,2,3-Trichlorobenzene	ug/kg	ND	5.9	12/19/14 11:14	
1,2,3-Trichloropropane	ug/kg	ND	5.9	12/19/14 11:14	
1,2,4-Trichlorobenzene	ug/kg	ND	5.9	12/19/14 11:14	
1,2,4-Trimethylbenzene	ug/kg	ND	5.9	12/19/14 11:14	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.9	12/19/14 11:14	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.9	12/19/14 11:14	
1,2-Dichlorobenzene	ug/kg	ND	5.9	12/19/14 11:14	
1,2-Dichloroethane	ug/kg	ND	5.9	12/19/14 11:14	
1,2-Dichloropropane	ug/kg	ND	5.9	12/19/14 11:14	
1,3,5-Trimethylbenzene	ug/kg	ND	5.9	12/19/14 11:14	
1,3-Dichlorobenzene	ug/kg	ND	5.9	12/19/14 11:14	
1,3-Dichloropropane	ug/kg	ND	5.9	12/19/14 11:14	
1,4-Dichlorobenzene	ug/kg	ND	5.9	12/19/14 11:14	
2,2-Dichloropropane	ug/kg	ND	5.9	12/19/14 11:14	
2-Butanone (MEK)	ug/kg	ND	118	12/19/14 11:14	
2-Chlorotoluene	ug/kg	ND	5.9	12/19/14 11:14	
2-Hexanone	ug/kg	ND	58.8	12/19/14 11:14	
4-Chlorotoluene	ug/kg	ND	5.9	12/19/14 11:14	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	58.8	12/19/14 11:14	
Acetone	ug/kg	ND	118	12/19/14 11:14	
Benzene	ug/kg	ND	5.9	12/19/14 11:14	
Bromobenzene	ug/kg	ND	5.9	12/19/14 11:14	
Bromochloromethane	ug/kg	ND	5.9	12/19/14 11:14	
Bromodichloromethane	ug/kg	ND	5.9	12/19/14 11:14	
Bromoform	ug/kg	ND	5.9	12/19/14 11:14	
Bromomethane	ug/kg	ND	11.8	12/19/14 11:14	
Carbon tetrachloride	ug/kg	ND	5.9	12/19/14 11:14	
Chlorobenzene	ug/kg	ND	5.9	12/19/14 11:14	
Chloroethane	ug/kg	ND	11.8	12/19/14 11:14	
Chloroform	ug/kg	ND	5.9	12/19/14 11:14	
Chloromethane	ug/kg	ND	11.8	12/19/14 11:14	
cis-1,2-Dichloroethene	ug/kg	ND	5.9	12/19/14 11:14	
cis-1,3-Dichloropropene	ug/kg	ND	5.9	12/19/14 11:14	
Dibromochloromethane	ug/kg	ND	5.9	12/19/14 11:14	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

METHOD BLANK: 1356262 Matrix: Solid
Associated Lab Samples: 92229483017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.9	12/19/14 11:14	
Dichlorodifluoromethane	ug/kg	ND	11.8	12/19/14 11:14	
Diisopropyl ether	ug/kg	ND	5.9	12/19/14 11:14	
Ethylbenzene	ug/kg	ND	5.9	12/19/14 11:14	
Hexachloro-1,3-butadiene	ug/kg	ND	5.9	12/19/14 11:14	
Isopropylbenzene (Cumene)	ug/kg	ND	5.9	12/19/14 11:14	
m&p-Xylene	ug/kg	ND	11.8	12/19/14 11:14	
Methyl-tert-butyl ether	ug/kg	ND	5.9	12/19/14 11:14	
Methylene Chloride	ug/kg	ND	23.5	12/19/14 11:14	
n-Butylbenzene	ug/kg	ND	5.9	12/19/14 11:14	
n-Propylbenzene	ug/kg	ND	5.9	12/19/14 11:14	
Naphthalene	ug/kg	ND	5.9	12/19/14 11:14	
o-Xylene	ug/kg	ND	5.9	12/19/14 11:14	
p-Isopropyltoluene	ug/kg	ND	5.9	12/19/14 11:14	
sec-Butylbenzene	ug/kg	ND	5.9	12/19/14 11:14	
Styrene	ug/kg	ND	5.9	12/19/14 11:14	
tert-Butylbenzene	ug/kg	ND	5.9	12/19/14 11:14	
Tetrachloroethene	ug/kg	ND	5.9	12/19/14 11:14	
Toluene	ug/kg	ND	5.9	12/19/14 11:14	
trans-1,2-Dichloroethene	ug/kg	ND	5.9	12/19/14 11:14	
trans-1,3-Dichloropropene	ug/kg	ND	5.9	12/19/14 11:14	
Trichloroethene	ug/kg	ND	5.9	12/19/14 11:14	
Trichlorofluoromethane	ug/kg	ND	5.9	12/19/14 11:14	
Vinyl acetate	ug/kg	ND	58.8	12/19/14 11:14	
Vinyl chloride	ug/kg	ND	11.8	12/19/14 11:14	
Xylene (Total)	ug/kg	ND	11.8	12/19/14 11:14	
1,2-Dichloroethane-d4 (S)	%	105	70-132	12/19/14 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	12/19/14 11:14	
Toluene-d8 (S)	%	100	70-130	12/19/14 11:14	

LABORATORY CONTROL SAMPLE: 1356263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	55.7	57.8	104	74-137	
1,1,1-Trichloroethane	ug/kg	55.7	55.9	100	67-140	
1,1,2,2-Tetrachloroethane	ug/kg	55.7	55.4	99	72-141	
1,1,2-Trichloroethane	ug/kg	55.7	56.2	101	78-138	
1,1-Dichloroethane	ug/kg	55.7	53.2	95	69-134	
1,1-Dichloroethene	ug/kg	55.7	53.4	96	67-138	
1,1-Dichloropropene	ug/kg	55.7	54.9	99	69-139	
1,2,3-Trichlorobenzene	ug/kg	55.7	62.8	113	70-146	
1,2,3-Trichloropropane	ug/kg	55.7	61.9	111	69-144	
1,2,4-Trichlorobenzene	ug/kg	55.7	61.8	111	68-148	
1,2,4-Trimethylbenzene	ug/kg	55.7	59.3	107	74-137	

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.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

LABORATORY CONTROL SAMPLE: 1356263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/kg	55.7	63.0	113	65-140	
1,2-Dibromoethane (EDB)	ug/kg	55.7	58.8	106	77-135	
1,2-Dichlorobenzene	ug/kg	55.7	61.2	110	77-141	
1,2-Dichloroethane	ug/kg	55.7	58.3	105	65-137	
1,2-Dichloropropane	ug/kg	55.7	54.9	99	72-136	
1,3,5-Trimethylbenzene	ug/kg	55.7	58.5	105	76-133	
1,3-Dichlorobenzene	ug/kg	55.7	59.9	107	74-138	
1,3-Dichloropropane	ug/kg	55.7	57.4	103	71-139	
1,4-Dichlorobenzene	ug/kg	55.7	61.5	110	76-138	
2,2-Dichloropropane	ug/kg	55.7	55.2	99	68-137	
2-Butanone (MEK)	ug/kg	111	105J	94	58-147	
2-Chlorotoluene	ug/kg	55.7	53.8	97	73-139	
2-Hexanone	ug/kg	111	113	101	62-145	
4-Chlorotoluene	ug/kg	55.7	58.7	105	76-141	
4-Methyl-2-pentanone (MIBK)	ug/kg	111	117	105	64-149	
Acetone	ug/kg	111	119	107	53-153	
Benzene	ug/kg	55.7	55.9	100	73-135	
Bromobenzene	ug/kg	55.7	54.8	98	75-133	
Bromochloromethane	ug/kg	55.7	55.8	100	73-134	
Bromodichloromethane	ug/kg	55.7	58.5	105	71-135	
Bromoform	ug/kg	55.7	60.8	109	66-141	
Bromomethane	ug/kg	55.7	66.0	118	53-160	
Carbon tetrachloride	ug/kg	55.7	57.6	103	60-145	
Chlorobenzene	ug/kg	55.7	58.1	104	78-130	
Chloroethane	ug/kg	55.7	52.7	95	64-149	
Chloroform	ug/kg	55.7	58.9	106	70-134	
Chloromethane	ug/kg	55.7	50.3	90	52-150	
cis-1,2-Dichloroethene	ug/kg	55.7	57.9	104	70-133	
cis-1,3-Dichloropropene	ug/kg	55.7	56.1	101	68-134	
Dibromochloromethane	ug/kg	55.7	61.9	111	71-138	
Dibromomethane	ug/kg	55.7	59.4	107	74-130	
Dichlorodifluoromethane	ug/kg	55.7	52.9	95	40-160	
Diisopropyl ether	ug/kg	55.7	47.9	86	69-141	
Ethylbenzene	ug/kg	55.7	57.2	103	75-133	
Hexachloro-1,3-butadiene	ug/kg	55.7	55.8	100	68-143	
Isopropylbenzene (Cumene)	ug/kg	55.7	57.9	104	76-143	
m&p-Xylene	ug/kg	111	114	103	75-136	
Methyl-tert-butyl ether	ug/kg	55.7	50.4	91	68-144	
Methylene Chloride	ug/kg	55.7	49.5	89	45-154	
n-Butylbenzene	ug/kg	55.7	60.7	109	72-137	
n-Propylbenzene	ug/kg	55.7	58.0	104	76-136	
Naphthalene	ug/kg	55.7	71.8	129	68-151	
o-Xylene	ug/kg	55.7	53.7	96	76-141	
p-Isopropyltoluene	ug/kg	55.7	57.3	103	76-140	
sec-Butylbenzene	ug/kg	55.7	57.8	104	79-139	
Styrene	ug/kg	55.7	57.9	104	79-137	
tert-Butylbenzene	ug/kg	55.7	51.0	92	74-143	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

LABORATORY CONTROL SAMPLE: 1356263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	55.7	53.1	95	71-138	
Toluene	ug/kg	55.7	54.7	98	74-131	
trans-1,2-Dichloroethene	ug/kg	55.7	52.8	95	67-135	
trans-1,3-Dichloropropene	ug/kg	55.7	57.2	103	65-146	
Trichloroethene	ug/kg	55.7	58.1	104	67-135	
Trichlorofluoromethane	ug/kg	55.7	56.0	101	59-144	
Vinyl acetate	ug/kg	111	74.0	66	40-160	F3
Vinyl chloride	ug/kg	55.7	47.8	86	56-141	
Xylene (Total)	ug/kg	167	168	101	76-137	
1,2-Dichloroethane-d4 (S)	%			107	70-132	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

QC Batch: PMST/7347 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92229483012, 92229483013, 92229483014, 92229483015, 92229483016, 92229483017

SAMPLE DUPLICATE: 1352308

Parameter	Units	92229457002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	10.2	10.7	5	

SAMPLE DUPLICATE: 1352309

Parameter	Units	92229556009 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	20.3	20.7	2	

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QUALIFIERS

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

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.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TREX PROPERTIES 03130430
Pace Project No.: 92229483

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92229483001	**MW-20B**	EPA 8260	MSV/29652		
92229483002	**MW-21A**	EPA 8260	MSV/29652		
92229483003	**MW-21B**	EPA 8260	MSV/29652		
92229483004	**MW-22A**	EPA 8260	MSV/29652		
92229483005	**MW-22B**	EPA 8260	MSV/29652		
92229483006	**RINSATE 12/08/14**	EPA 8260	MSV/29726		
92229483007	**RINSATE 12/09/14**	EPA 8260	MSV/29726		
92229483008	**RINSATE 12/11/14**	EPA 8260	MSV/29726		
92229483009	**RINSATE 12/12/14**	EPA 8260	MSV/29726		
92229483010	**MW-20A**	EPA 8260	MSV/29726		
92229483011	**DUPLICATE - WATER**	EPA 8260	MSV/29652		
92229483018	**TRIP BLANK**	EPA 8260	MSV/29736		
92229483012	**SB-22-85'**	EPA 8260	MSV/29682		
92229483013	**SB-20-0.5'**	EPA 8260	MSV/29703		
92229483014	**SB-20-36'**	EPA 8260	MSV/29703		
92229483015	**SB-20-38'**	EPA 8260	MSV/29703		
92229483016	**SB-20-60'**	EPA 8260	MSV/29703		
92229483017	**DUPLICATE - SOIL**	EPA 8260	MSV/29716		
92229483012	**SB-22-85'**	ASTM D2974-87	PMST/7347		
92229483013	**SB-20-0.5'**	ASTM D2974-87	PMST/7347		
92229483014	**SB-20-36'**	ASTM D2974-87	PMST/7347		
92229483015	**SB-20-38'**	ASTM D2974-87	PMST/7347		
92229483016	**SB-20-60'**	ASTM D2974-87	PMST/7347		
92229483017	**DUPLICATE - SOIL**	ASTM D2974-87	PMST/7347		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: September 22, 2014 Page 1 of 2
	Document Number: **F-CHR-CS-003-rev.15**	Issuing Authority: Pace Huntersville Quality Office

Client Name: ECT

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 4.6 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: AP 12-12-14

		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: AP 12-12	☑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:_____		
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	
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 included (Not on COC)
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: David Craig Date/Time: 12/15/14

Comments/ Resolution: ~~Accept~~ Analyze Trip Blank. KG.

SCURF Review: JJ Date: 12/12/14

SRF Review: JJ Date: 12/13/14

WO# : 92229483

92229483

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)

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

1790598

Section A Required Client Information:

Company: ECT
Address: 1650 Des Pres Rd
St Louis MO
Email To: Cfay@withersravenel.com
Phone: 1192015768 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Chris Fay
Copy To:
Purchase Order No.:
Project Name: Trex
Project Number: 03130430

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: NC

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9222414B
1	MW-20B	WT	G			12/12	0830		3				X					X		001
2	MW-21A					12/11	1225		3				X					X		002
3	MW-21B						1200		3				X					X		003
4	MW-22A						1100		3				X					X		004
5	MW-22B						1015		3				X					X		005
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	12-12-14	11:12	[signature]	12-12-14	11:12				
	[signature]	12-12-14	1130	[signature]	12-12-14	1130	4.6	Y	N	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: Chris Fay
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 12/12/14

*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.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

1333835

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: EHT	Report To: Chris Fay	Attention:
Address: 1650 DEs Pres Rd St Louis MO	Copy To:	Company Name:
		Address:
Email To: Gray@withersravenel.com	Purchase Order No.:	Pace Quote Reference:
Phone: 919 201 5788 Fax:	Project Name: Trex Properties	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 03130430	Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER ____

Site Location STATE: NC

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	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SB-22-85'	SL	G			12/8	1620		5	2					3			X		012
2	SB-20-0.5'					12/9	1130		6	2					3	1		X		013
3	SB-20-36					12/9	1600		6	2					3	1		X		014
4	SB-20-38					12/9	1545		6	2					3	1		X		015
5	SB-20-60'					12/11	1400		6	2					3	1		X		016
6	Duplicate-soil					12/9	1200		6	2					3	1		X		017
7	Duplicate-water	NT				12/12	1000		6	2					3	1		X		011
8	Rinsate 12/8/14					12/8	1700		3				3					X		006
9	Rinsate 12/9/14					12/9	1615		2				2					X		007
10	Rinsate 12/11/14					12/11	1245		2				2					X		008
11	Rinsate 12/12/14					12/12	0930		3				3					X		009
12	MW-20A					12/12	0900		3				3					X		010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	12-12-14	1112	[signature] Pace	12-12-14	1122				
	[signature] Pace	12-12-14	1130	[signature] Pace	12-12-14	1130	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Fay

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/12/14

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

*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.

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Huntersville, NC 28078
(704)875-9092

October 02, 2015

David Craig
EnviroAnalytics Group
1650 Des Peres Road
Suite 303
Saint Louis, MO 63131

RE: Project: Trex 03130430
Pace Project No.: 92268845

Dear David Craig:
Enclosed are the analytical results for sample(s) received by the laboratory on September 22, 2015. 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.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Trex 03130430
Pace Project No.: 92268845

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: Trex 03130430
Pace Project No.: 92268845

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92268845001	**PMW-22A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92268845002	**PMW-22B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92268845003	**PMW-12A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92268845004	**PMW-12B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92268845005	**PMW-11A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92268845006	**PMW-11B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92268845007	**PMW-10A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92268845008	**PMW-10B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92268845009	**Rinsate**	EPA 8260	NB	63	PASI-C
92268845010	**Field Blank**	EPA 8260	NB	63	PASI-C
92268845011	**Trip Blank**	EPA 8260	NB	63	PASI-C
92268845012	**Trip Blank**	EPA 8260	NB	63	PASI-C

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-22A **Lab ID: 92268845001** Collected: 09/22/15 10:40 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/23/15 19:24	67-64-1	
Benzene	ND	ug/L	1.0	1		09/23/15 19:24	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/23/15 19:24	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/23/15 19:24	74-97-5	
Bromodichloromethane	**5.2**	ug/L	1.0	1		09/23/15 19:24	75-27-4	
Bromoform	**7.6**	ug/L	3.0	1		09/23/15 19:24	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/23/15 19:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/23/15 19:24	78-93-3	L2
Carbon tetrachloride	ND	ug/L	1.0	1		09/23/15 19:24	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/23/15 19:24	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/23/15 19:24	75-00-3	
Chloroform	**8.2**	ug/L	5.0	1		09/23/15 19:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/23/15 19:24	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 19:24	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 19:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/23/15 19:24	96-12-8	
Dibromochloromethane	**8.0**	ug/L	3.0	1		09/23/15 19:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/23/15 19:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/23/15 19:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/23/15 19:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/23/15 19:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/23/15 19:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/23/15 19:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/23/15 19:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 19:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 19:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 19:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/23/15 19:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 19:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/23/15 19:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 19:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 19:24	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/23/15 19:24	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/23/15 19:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/23/15 19:24	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/23/15 19:24	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/23/15 19:24	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/23/15 19:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/23/15 19:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/23/15 19:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/23/15 19:24	91-20-3	
Styrene	ND	ug/L	1.0	1		09/23/15 19:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/23/15 19:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/23/15 19:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/23/15 19:24	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-22A **Lab ID: 92268845001** Collected: 09/22/15 10:40 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/23/15 19:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/23/15 19:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/23/15 19:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/23/15 19:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/23/15 19:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/23/15 19:24	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/23/15 19:24	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/23/15 19:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/23/15 19:24	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/23/15 19:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/23/15 19:24	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/23/15 19:24	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		09/23/15 19:24	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/23/15 19:24	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/01/15 11:31	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	50-150	1		10/01/15 11:31	17060-07-0	
Toluene-d8 (S)	82	%	50-150	1		10/01/15 11:31	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-22B **Lab ID: 92268845002** Collected: 09/22/15 10:45 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/23/15 19:41	67-64-1	
Benzene	ND	ug/L	1.0	1		09/23/15 19:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/23/15 19:41	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/23/15 19:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/23/15 19:41	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/23/15 19:41	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/23/15 19:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/23/15 19:41	78-93-3	L2
Carbon tetrachloride	ND	ug/L	1.0	1		09/23/15 19:41	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/23/15 19:41	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/23/15 19:41	75-00-3	
Chloroform	**11.6**	ug/L	5.0	1		09/23/15 19:41	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/23/15 19:41	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 19:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 19:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/23/15 19:41	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/23/15 19:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/23/15 19:41	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/23/15 19:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/23/15 19:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/23/15 19:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/23/15 19:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/23/15 19:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/23/15 19:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 19:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 19:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 19:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/23/15 19:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 19:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/23/15 19:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 19:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 19:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/23/15 19:41	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/23/15 19:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/23/15 19:41	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/23/15 19:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/23/15 19:41	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/23/15 19:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/23/15 19:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/23/15 19:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/23/15 19:41	91-20-3	
Styrene	ND	ug/L	1.0	1		09/23/15 19:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/23/15 19:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/23/15 19:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/23/15 19:41	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-22B **Lab ID: 92268845002** Collected: 09/22/15 10:45 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/23/15 19:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/23/15 19:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/23/15 19:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/23/15 19:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/23/15 19:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/23/15 19:41	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/23/15 19:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/23/15 19:41	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/23/15 19:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/23/15 19:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/23/15 19:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/23/15 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		09/23/15 19:41	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/23/15 19:41	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		09/24/15 22:39	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	138	%	50-150	1		09/24/15 22:39	17060-07-0	
Toluene-d8 (S)	89	%	50-150	1		09/24/15 22:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-12A **Lab ID: 92268845003** Collected: 09/22/15 12:10 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/23/15 19:58	67-64-1	
Benzene	ND	ug/L	1.0	1		09/23/15 19:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/23/15 19:58	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/23/15 19:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/23/15 19:58	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/23/15 19:58	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/23/15 19:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/23/15 19:58	78-93-3	L2
Carbon tetrachloride	ND	ug/L	1.0	1		09/23/15 19:58	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/23/15 19:58	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/23/15 19:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/23/15 19:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/23/15 19:58	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 19:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 19:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/23/15 19:58	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/23/15 19:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/23/15 19:58	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/23/15 19:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/23/15 19:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/23/15 19:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/23/15 19:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/23/15 19:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/23/15 19:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 19:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 19:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 19:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/23/15 19:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 19:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/23/15 19:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 19:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 19:58	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/23/15 19:58	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/23/15 19:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/23/15 19:58	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/23/15 19:58	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/23/15 19:58	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/23/15 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/23/15 19:58	108-10-1	
Methyl-tert-butyl ether	**1.1**	ug/L	1.0	1		09/23/15 19:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/23/15 19:58	91-20-3	
Styrene	ND	ug/L	1.0	1		09/23/15 19:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/23/15 19:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/23/15 19:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/23/15 19:58	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-12A **Lab ID: 92268845003** Collected: 09/22/15 12:10 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/23/15 19:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 19:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/23/15 19:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/23/15 19:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/23/15 19:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/23/15 19:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/23/15 19:58	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/23/15 19:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/23/15 19:58	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/23/15 19:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/23/15 19:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/23/15 19:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/23/15 19:58	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		09/23/15 19:58	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		09/23/15 19:58	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**4.8**	ug/L	2.0	1		09/24/15 23:00	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	137	%	50-150	1		09/24/15 23:00	17060-07-0	
Toluene-d8 (S)	89	%	50-150	1		09/24/15 23:00	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-12B **Lab ID: 92268845004** Collected: 09/22/15 12:15 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/23/15 20:15	67-64-1	
Benzene	ND	ug/L	1.0	1		09/23/15 20:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/23/15 20:15	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/23/15 20:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/23/15 20:15	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/23/15 20:15	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/23/15 20:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/23/15 20:15	78-93-3	L2
Carbon tetrachloride	ND	ug/L	1.0	1		09/23/15 20:15	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/23/15 20:15	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/23/15 20:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/23/15 20:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/23/15 20:15	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 20:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 20:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/23/15 20:15	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/23/15 20:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/23/15 20:15	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/23/15 20:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/23/15 20:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/23/15 20:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/23/15 20:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/23/15 20:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/23/15 20:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 20:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 20:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 20:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/23/15 20:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 20:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/23/15 20:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 20:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 20:15	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/23/15 20:15	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/23/15 20:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/23/15 20:15	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/23/15 20:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/23/15 20:15	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/23/15 20:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/23/15 20:15	108-10-1	
Methyl-tert-butyl ether	**1.0**	ug/L	1.0	1		09/23/15 20:15	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/23/15 20:15	91-20-3	
Styrene	ND	ug/L	1.0	1		09/23/15 20:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/23/15 20:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/23/15 20:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/23/15 20:15	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-12B **Lab ID: 92268845004** Collected: 09/22/15 12:15 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/23/15 20:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/23/15 20:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/23/15 20:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/23/15 20:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/23/15 20:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/23/15 20:15	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/23/15 20:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/23/15 20:15	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/23/15 20:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/23/15 20:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/23/15 20:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/23/15 20:15	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		09/23/15 20:15	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		09/23/15 20:15	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**4.8**	ug/L	2.0	1		09/24/15 23:20	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	136	%	50-150	1		09/24/15 23:20	17060-07-0	
Toluene-d8 (S)	90	%	50-150	1		09/24/15 23:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-11A **Lab ID: 92268845005** Collected: 09/22/15 13:15 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/23/15 20:32	67-64-1	
Benzene	ND	ug/L	1.0	1		09/23/15 20:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/23/15 20:32	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/23/15 20:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/23/15 20:32	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/23/15 20:32	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/23/15 20:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/23/15 20:32	78-93-3	L2
Carbon tetrachloride	ND	ug/L	1.0	1		09/23/15 20:32	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/23/15 20:32	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/23/15 20:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/23/15 20:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/23/15 20:32	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 20:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 20:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/23/15 20:32	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/23/15 20:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/23/15 20:32	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/23/15 20:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/23/15 20:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/23/15 20:32	75-71-8	
1,1-Dichloroethane	**6.3**	ug/L	5.0	1		09/23/15 20:32	75-34-3	
1,2-Dichloroethane	**1.3**	ug/L	1.0	1		09/23/15 20:32	107-06-2	
1,1-Dichloroethene	**61.6**	ug/L	5.0	1		09/23/15 20:32	75-35-4	
cis-1,2-Dichloroethene	**97.3**	ug/L	5.0	1		09/23/15 20:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 20:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 20:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/23/15 20:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 20:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/23/15 20:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 20:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 20:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/23/15 20:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/23/15 20:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/23/15 20:32	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/23/15 20:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/23/15 20:32	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/23/15 20:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/23/15 20:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/23/15 20:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/23/15 20:32	91-20-3	
Styrene	ND	ug/L	1.0	1		09/23/15 20:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/23/15 20:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/23/15 20:32	79-34-5	
Tetrachloroethene	**378**	ug/L	50.0	50		09/24/15 20:38	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-11A **Lab ID: 92268845005** Collected: 09/22/15 13:15 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/23/15 20:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:32	120-82-1	
1,1,1-Trichloroethane	**18.5**	ug/L	1.0	1		09/23/15 20:32	71-55-6	
1,1,2-Trichloroethane	**1.4**	ug/L	1.0	1		09/23/15 20:32	79-00-5	
Trichloroethene	**3280**	ug/L	50.0	50		09/24/15 20:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/23/15 20:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/23/15 20:32	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/23/15 20:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/23/15 20:32	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/23/15 20:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/23/15 20:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/23/15 20:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/23/15 20:32	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		09/23/15 20:32	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		09/23/15 20:32	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**7.0**	ug/L	2.0	1		09/24/15 23:40	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	137	%	50-150	1		09/24/15 23:40	17060-07-0	
Toluene-d8 (S)	89	%	50-150	1		09/24/15 23:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-11B **Lab ID: 92268845006** Collected: 09/22/15 13:15 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/23/15 20:49	67-64-1	
Benzene	ND	ug/L	1.0	1		09/23/15 20:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/23/15 20:49	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/23/15 20:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/23/15 20:49	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/23/15 20:49	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/23/15 20:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/23/15 20:49	78-93-3	L2
Carbon tetrachloride	ND	ug/L	1.0	1		09/23/15 20:49	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/23/15 20:49	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/23/15 20:49	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/23/15 20:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/23/15 20:49	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 20:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 20:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/23/15 20:49	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/23/15 20:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/23/15 20:49	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/23/15 20:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/23/15 20:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/23/15 20:49	75-71-8	
1,1-Dichloroethane	**7.8**	ug/L	5.0	1		09/23/15 20:49	75-34-3	
1,2-Dichloroethane	**2.6**	ug/L	1.0	1		09/23/15 20:49	107-06-2	
1,1-Dichloroethene	**53.0**	ug/L	5.0	1		09/23/15 20:49	75-35-4	
cis-1,2-Dichloroethene	**163**	ug/L	5.0	1		09/23/15 20:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 20:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 20:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/23/15 20:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 20:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/23/15 20:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 20:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 20:49	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/23/15 20:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/23/15 20:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/23/15 20:49	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/23/15 20:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/23/15 20:49	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/23/15 20:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/23/15 20:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/23/15 20:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/23/15 20:49	91-20-3	
Styrene	ND	ug/L	1.0	1		09/23/15 20:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/23/15 20:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/23/15 20:49	79-34-5	
Tetrachloroethene	**474**	ug/L	50.0	50		09/24/15 20:55	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-11B **Lab ID: 92268845006** Collected: 09/22/15 13:15 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/23/15 20:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 20:49	120-82-1	
1,1,1-Trichloroethane	**20.4**	ug/L	1.0	1		09/23/15 20:49	71-55-6	
1,1,2-Trichloroethane	**3.0**	ug/L	1.0	1		09/23/15 20:49	79-00-5	
Trichloroethene	**4130**	ug/L	50.0	50		09/24/15 20:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/23/15 20:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/23/15 20:49	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/23/15 20:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/23/15 20:49	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/23/15 20:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/23/15 20:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/23/15 20:49	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/23/15 20:49	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		09/23/15 20:49	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		09/23/15 20:49	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**20.3**	ug/L	2.0	1		09/25/15 00:00	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	141	%	50-150	1		09/25/15 00:00	17060-07-0	
Toluene-d8 (S)	90	%	50-150	1		09/25/15 00:00	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-10A **Lab ID: 92268845007** Collected: 09/22/15 14:05 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	500000	5000		09/25/15 07:41	67-64-1	
Benzene	ND	ug/L	5000	5000		09/25/15 07:41	71-43-2	
Bromobenzene	ND	ug/L	5000	5000		09/25/15 07:41	108-86-1	
Bromochloromethane	ND	ug/L	15000	5000		09/25/15 07:41	74-97-5	
Bromodichloromethane	ND	ug/L	5000	5000		09/25/15 07:41	75-27-4	
Bromoform	ND	ug/L	15000	5000		09/25/15 07:41	75-25-2	
Bromomethane	ND	ug/L	50000	5000		09/25/15 07:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	500000	5000		09/25/15 07:41	78-93-3	
Carbon tetrachloride	ND	ug/L	5000	5000		09/25/15 07:41	56-23-5	
Chlorobenzene	ND	ug/L	15000	5000		09/25/15 07:41	108-90-7	
Chloroethane	ND	ug/L	50000	5000		09/25/15 07:41	75-00-3	
Chloroform	ND	ug/L	25000	5000		09/25/15 07:41	67-66-3	
Chloromethane	ND	ug/L	5000	5000		09/25/15 07:41	74-87-3	
2-Chlorotoluene	ND	ug/L	5000	5000		09/25/15 07:41	95-49-8	
4-Chlorotoluene	ND	ug/L	5000	5000		09/25/15 07:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	65000	5000		09/25/15 07:41	96-12-8	
Dibromochloromethane	ND	ug/L	15000	5000		09/25/15 07:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5000	5000		09/25/15 07:41	106-93-4	
Dibromomethane	ND	ug/L	50000	5000		09/25/15 07:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	25000	5000		09/25/15 07:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5000	5000		09/25/15 07:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5000	5000		09/25/15 07:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5000	5000		09/25/15 07:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	25000	5000		09/25/15 07:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5000	5000		09/25/15 07:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	25000	5000		09/25/15 07:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25000	5000		09/25/15 07:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25000	5000		09/25/15 07:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5000	5000		09/25/15 07:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	5000	5000		09/25/15 07:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	5000	5000		09/25/15 07:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	5000	5000		09/25/15 07:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5000	5000		09/25/15 07:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5000	5000		09/25/15 07:41	10061-02-6	
Diisopropyl ether	ND	ug/L	5000	5000		09/25/15 07:41	108-20-3	
Ethylbenzene	ND	ug/L	5000	5000		09/25/15 07:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5000	5000		09/25/15 07:41	87-68-3	
2-Hexanone	ND	ug/L	250000	5000		09/25/15 07:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	5000	5000		09/25/15 07:41	99-87-6	
Methylene Chloride	ND	ug/L	10000	5000		09/25/15 07:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	500000	5000		09/25/15 07:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5000	5000		09/25/15 07:41	1634-04-4	
Naphthalene	ND	ug/L	5000	5000		09/25/15 07:41	91-20-3	
Styrene	ND	ug/L	5000	5000		09/25/15 07:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25000	5000		09/25/15 07:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	15000	5000		09/25/15 07:41	79-34-5	
Tetrachloroethene	**12200**	ug/L	5000	5000		09/25/15 07:41	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-10A **Lab ID: 92268845007** Collected: 09/22/15 14:05 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	5000	5000		09/25/15 07:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5000	5000		09/25/15 07:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5000	5000		09/25/15 07:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5000	5000		09/25/15 07:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5000	5000		09/25/15 07:41	79-00-5	
Trichloroethene	**94700**	ug/L	5000	5000		09/25/15 07:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5000	5000		09/25/15 07:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5000	5000		09/25/15 07:41	96-18-4	
Vinyl acetate	ND	ug/L	250000	5000		09/25/15 07:41	108-05-4	
Vinyl chloride	ND	ug/L	5000	5000		09/25/15 07:41	75-01-4	
Xylene (Total)	ND	ug/L	25000	5000		09/25/15 07:41	1330-20-7	
m&p-Xylene	ND	ug/L	10000	5000		09/25/15 07:41	179601-23-1	
o-Xylene	ND	ug/L	5000	5000		09/25/15 07:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	5000		09/25/15 07:41	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	5000		09/25/15 07:41	17060-07-0	
Toluene-d8 (S)	102	%	70-130	5000		09/25/15 07:41	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**342**	ug/L	10.0	5		09/27/15 15:30	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	117	%	50-150	5		09/27/15 15:30	17060-07-0	
Toluene-d8 (S)	99	%	50-150	5		09/27/15 15:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-10B **Lab ID: 92268845008** Collected: 09/22/15 14:15 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25000	1000		09/30/15 15:41	67-64-1	
Benzene	ND	ug/L	1000	1000		09/30/15 15:41	71-43-2	
Bromobenzene	ND	ug/L	1000	1000		09/30/15 15:41	108-86-1	
Bromochloromethane	ND	ug/L	1000	1000		09/30/15 15:41	74-97-5	
Bromodichloromethane	ND	ug/L	1000	1000		09/30/15 15:41	75-27-4	
Bromoform	ND	ug/L	1000	1000		09/30/15 15:41	75-25-2	
Bromomethane	ND	ug/L	2000	1000		09/30/15 15:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5000	1000		09/30/15 15:41	78-93-3	
Carbon tetrachloride	ND	ug/L	1000	1000		09/30/15 15:41	56-23-5	
Chlorobenzene	ND	ug/L	1000	1000		09/30/15 15:41	108-90-7	
Chloroethane	ND	ug/L	1000	1000		09/30/15 15:41	75-00-3	
Chloroform	ND	ug/L	1000	1000		09/30/15 15:41	67-66-3	
Chloromethane	ND	ug/L	1000	1000		09/30/15 15:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1000	1000		09/30/15 15:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1000	1000		09/30/15 15:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2000	1000		09/30/15 15:41	96-12-8	
Dibromochloromethane	ND	ug/L	1000	1000		09/30/15 15:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1000	1000		09/30/15 15:41	106-93-4	
Dibromomethane	ND	ug/L	1000	1000		09/30/15 15:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1000	1000		09/30/15 15:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1000	1000		09/30/15 15:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1000	1000		09/30/15 15:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1000	1000		09/30/15 15:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1000	1000		09/30/15 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1000	1000		09/30/15 15:41	107-06-2	
1,1-Dichloroethene	**2510**	ug/L	1000	1000		09/30/15 15:41	75-35-4	
cis-1,2-Dichloroethene	**2140**	ug/L	1000	1000		09/30/15 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	1000		09/30/15 15:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1000	1000		09/30/15 15:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1000	1000		09/30/15 15:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1000	1000		09/30/15 15:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1000	1000		09/30/15 15:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1000	1000		09/30/15 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1000	1000		09/30/15 15:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1000	1000		09/30/15 15:41	108-20-3	
Ethylbenzene	ND	ug/L	1000	1000		09/30/15 15:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1000	1000		09/30/15 15:41	87-68-3	
2-Hexanone	ND	ug/L	5000	1000		09/30/15 15:41	591-78-6	
p-Isopropyltoluene	ND	ug/L	1000	1000		09/30/15 15:41	99-87-6	
Methylene Chloride	ND	ug/L	2000	1000		09/30/15 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5000	1000		09/30/15 15:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1000	1000		09/30/15 15:41	1634-04-4	
Naphthalene	ND	ug/L	1000	1000		09/30/15 15:41	91-20-3	
Styrene	ND	ug/L	1000	1000		09/30/15 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1000	1000		09/30/15 15:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1000	1000		09/30/15 15:41	79-34-5	
Tetrachloroethene	**7910**	ug/L	1000	1000		09/30/15 15:41	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: PMW-10B **Lab ID: 92268845008** Collected: 09/22/15 14:15 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1000	1000		09/30/15 15:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1000	1000		09/30/15 15:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1000	1000		09/30/15 15:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1000	1000		09/30/15 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1000	1000		09/30/15 15:41	79-00-5	
Trichloroethene	**76000**	ug/L	1000	1000		09/30/15 15:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1000	1000		09/30/15 15:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1000	1000		09/30/15 15:41	96-18-4	
Vinyl acetate	ND	ug/L	2000	1000		09/30/15 15:41	108-05-4	
Vinyl chloride	ND	ug/L	1000	1000		09/30/15 15:41	75-01-4	
Xylene (Total)	ND	ug/L	2000	1000		09/30/15 15:41	1330-20-7	
m&p-Xylene	ND	ug/L	2000	1000		09/30/15 15:41	179601-23-1	
o-Xylene	ND	ug/L	1000	1000		09/30/15 15:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1000		09/30/15 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1000		09/30/15 15:41	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1000		09/30/15 15:41	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**322**	ug/L	10.0	5		09/27/15 15:50	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	168	%	50-150	1		09/25/15 00:40	17060-07-0	S0
Toluene-d8 (S)	89	%	50-150	1		09/25/15 00:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: Rinsate **Lab ID: 92268845009** Collected: 09/22/15 14:30 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/26/15 02:28	67-64-1	
Benzene	ND	ug/L	1.0	1		09/26/15 02:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/26/15 02:28	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/26/15 02:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/26/15 02:28	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/26/15 02:28	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/26/15 02:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/26/15 02:28	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/26/15 02:28	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/26/15 02:28	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/26/15 02:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/26/15 02:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/26/15 02:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/26/15 02:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/26/15 02:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/26/15 02:28	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/26/15 02:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/26/15 02:28	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/26/15 02:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/26/15 02:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/26/15 02:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/26/15 02:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/26/15 02:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/26/15 02:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/26/15 02:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/26/15 02:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/26/15 02:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/26/15 02:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/26/15 02:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/26/15 02:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/26/15 02:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/26/15 02:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/26/15 02:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/26/15 02:28	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/26/15 02:28	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/26/15 02:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/26/15 02:28	87-68-3	L3
2-Hexanone	ND	ug/L	50.0	1		09/26/15 02:28	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/26/15 02:28	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/26/15 02:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/26/15 02:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/26/15 02:28	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/26/15 02:28	91-20-3	
Styrene	ND	ug/L	1.0	1		09/26/15 02:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/26/15 02:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/26/15 02:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/26/15 02:28	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: Rinsate **Lab ID: 92268845009** Collected: 09/22/15 14:30 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/26/15 02:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/26/15 02:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/26/15 02:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/26/15 02:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/26/15 02:28	79-00-5	
Trichloroethene	**1.2**	ug/L	1.0	1		09/26/15 02:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/26/15 02:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/26/15 02:28	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/26/15 02:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/26/15 02:28	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/26/15 02:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/26/15 02:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/26/15 02:28	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/26/15 02:28	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		09/26/15 02:28	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		09/26/15 02:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: Field Blank **Lab ID: 92268845010** Collected: 09/22/15 15:00 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/26/15 02:45	67-64-1	
Benzene	ND	ug/L	1.0	1		09/26/15 02:45	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/26/15 02:45	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/26/15 02:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/26/15 02:45	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/26/15 02:45	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/26/15 02:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/26/15 02:45	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/26/15 02:45	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/26/15 02:45	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/26/15 02:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/26/15 02:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/26/15 02:45	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/26/15 02:45	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/26/15 02:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/26/15 02:45	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/26/15 02:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/26/15 02:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/26/15 02:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/26/15 02:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/26/15 02:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/26/15 02:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/26/15 02:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/26/15 02:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/26/15 02:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/26/15 02:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/26/15 02:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/26/15 02:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/26/15 02:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/26/15 02:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/26/15 02:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/26/15 02:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/26/15 02:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/26/15 02:45	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/26/15 02:45	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/26/15 02:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/26/15 02:45	87-68-3	L3
2-Hexanone	ND	ug/L	50.0	1		09/26/15 02:45	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/26/15 02:45	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/26/15 02:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/26/15 02:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/26/15 02:45	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/26/15 02:45	91-20-3	
Styrene	ND	ug/L	1.0	1		09/26/15 02:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/26/15 02:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/26/15 02:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/26/15 02:45	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: Field Blank **Lab ID: 92268845010** Collected: 09/22/15 15:00 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/26/15 02:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/26/15 02:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/26/15 02:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/26/15 02:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/26/15 02:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/26/15 02:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/26/15 02:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/26/15 02:45	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/26/15 02:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/26/15 02:45	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/26/15 02:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/26/15 02:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/26/15 02:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	70-130	1		09/26/15 02:45	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		09/26/15 02:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/26/15 02:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: Trip Blank **Lab ID: 92268845011** Collected: 09/22/15 00:00 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/23/15 18:33	67-64-1	
Benzene	ND	ug/L	1.0	1		09/23/15 18:33	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/23/15 18:33	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/23/15 18:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/23/15 18:33	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/23/15 18:33	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/23/15 18:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/23/15 18:33	78-93-3	L2
Carbon tetrachloride	ND	ug/L	1.0	1		09/23/15 18:33	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/23/15 18:33	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/23/15 18:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/23/15 18:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/23/15 18:33	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 18:33	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/23/15 18:33	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/23/15 18:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/23/15 18:33	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/23/15 18:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/23/15 18:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 18:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 18:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/23/15 18:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/23/15 18:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/23/15 18:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/23/15 18:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 18:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 18:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 18:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/23/15 18:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 18:33	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/23/15 18:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 18:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 18:33	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/23/15 18:33	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/23/15 18:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/23/15 18:33	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/23/15 18:33	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/23/15 18:33	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/23/15 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/23/15 18:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/23/15 18:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/23/15 18:33	91-20-3	
Styrene	ND	ug/L	1.0	1		09/23/15 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/23/15 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/23/15 18:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/23/15 18:33	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: Trip Blank **Lab ID: 92268845011** Collected: 09/22/15 00:00 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/23/15 18:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 18:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 18:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/23/15 18:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/23/15 18:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/23/15 18:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/23/15 18:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/23/15 18:33	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/23/15 18:33	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/23/15 18:33	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/23/15 18:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/23/15 18:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/23/15 18:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/23/15 18:33	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		09/23/15 18:33	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		09/23/15 18:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: Trip Blank **Lab ID: 92268845012** Collected: 09/22/15 00:00 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/23/15 18:50	67-64-1	
Benzene	ND	ug/L	1.0	1		09/23/15 18:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/23/15 18:50	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/23/15 18:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/23/15 18:50	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/23/15 18:50	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/23/15 18:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/23/15 18:50	78-93-3	L2
Carbon tetrachloride	ND	ug/L	1.0	1		09/23/15 18:50	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/23/15 18:50	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/23/15 18:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/23/15 18:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/23/15 18:50	74-87-3	L2
2-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 18:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/23/15 18:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/23/15 18:50	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/23/15 18:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/23/15 18:50	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/23/15 18:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/23/15 18:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 18:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/23/15 18:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/23/15 18:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/23/15 18:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/23/15 18:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/23/15 18:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 18:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/23/15 18:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 18:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/23/15 18:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/23/15 18:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/23/15 18:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 18:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/23/15 18:50	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/23/15 18:50	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/23/15 18:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/23/15 18:50	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/23/15 18:50	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/23/15 18:50	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/23/15 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/23/15 18:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/23/15 18:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/23/15 18:50	91-20-3	
Styrene	ND	ug/L	1.0	1		09/23/15 18:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/23/15 18:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/23/15 18:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/23/15 18:50	127-18-4	

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ANALYTICAL RESULTS

Project: Trex 03130430
Pace Project No.: 92268845

Sample: Trip Blank **Lab ID: 92268845012** Collected: 09/22/15 00:00 Received: 09/22/15 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/23/15 18:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 18:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/23/15 18:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/23/15 18:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/23/15 18:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/23/15 18:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/23/15 18:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/23/15 18:50	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/23/15 18:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/23/15 18:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/23/15 18:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/23/15 18:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/23/15 18:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/23/15 18:50	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		09/23/15 18:50	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/23/15 18:50	2037-26-5	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

QC Batch: MSV/33491 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92268845001, 92268845002, 92268845003, 92268845004, 92268845005, 92268845006, 92268845011, 92268845012

METHOD BLANK: 1564141 Matrix: Water
Associated Lab Samples: 92268845001, 92268845002, 92268845003, 92268845004, 92268845005, 92268845006, 92268845011, 92268845012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/23/15 12:03	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/23/15 12:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/23/15 12:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/23/15 12:03	
1,1-Dichloroethane	ug/L	ND	1.0	09/23/15 12:03	
1,1-Dichloroethene	ug/L	ND	1.0	09/23/15 12:03	
1,1-Dichloropropene	ug/L	ND	1.0	09/23/15 12:03	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/23/15 12:03	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/23/15 12:03	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/23/15 12:03	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	09/23/15 12:03	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/23/15 12:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/23/15 12:03	
1,2-Dichloroethane	ug/L	ND	1.0	09/23/15 12:03	
1,2-Dichloropropane	ug/L	ND	1.0	09/23/15 12:03	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/23/15 12:03	
1,3-Dichloropropane	ug/L	ND	1.0	09/23/15 12:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/23/15 12:03	
2,2-Dichloropropane	ug/L	ND	1.0	09/23/15 12:03	
2-Butanone (MEK)	ug/L	ND	5.0	09/23/15 12:03	
2-Chlorotoluene	ug/L	ND	1.0	09/23/15 12:03	
2-Hexanone	ug/L	ND	5.0	09/23/15 12:03	
4-Chlorotoluene	ug/L	ND	1.0	09/23/15 12:03	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/23/15 12:03	
Acetone	ug/L	ND	25.0	09/23/15 12:03	
Benzene	ug/L	ND	1.0	09/23/15 12:03	
Bromobenzene	ug/L	ND	1.0	09/23/15 12:03	
Bromochloromethane	ug/L	ND	1.0	09/23/15 12:03	
Bromodichloromethane	ug/L	ND	1.0	09/23/15 12:03	
Bromoform	ug/L	ND	1.0	09/23/15 12:03	
Bromomethane	ug/L	ND	2.0	09/23/15 12:03	
Carbon tetrachloride	ug/L	ND	1.0	09/23/15 12:03	
Chlorobenzene	ug/L	ND	1.0	09/23/15 12:03	
Chloroethane	ug/L	ND	1.0	09/23/15 12:03	
Chloroform	ug/L	ND	1.0	09/23/15 12:03	
Chloromethane	ug/L	ND	1.0	09/23/15 12:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/23/15 12:03	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/23/15 12:03	
Dibromochloromethane	ug/L	ND	1.0	09/23/15 12:03	
Dibromomethane	ug/L	ND	1.0	09/23/15 12:03	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

METHOD BLANK: 1564141 Matrix: Water

Associated Lab Samples: 92268845001, 92268845002, 92268845003, 92268845004, 92268845005, 92268845006, 92268845011, 92268845012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	09/23/15 12:03	
Diisopropyl ether	ug/L	ND	1.0	09/23/15 12:03	
Ethylbenzene	ug/L	ND	1.0	09/23/15 12:03	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/23/15 12:03	
m&p-Xylene	ug/L	ND	2.0	09/23/15 12:03	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/23/15 12:03	
Methylene Chloride	ug/L	ND	2.0	09/23/15 12:03	
Naphthalene	ug/L	ND	1.0	09/23/15 12:03	
o-Xylene	ug/L	ND	1.0	09/23/15 12:03	
p-Isopropyltoluene	ug/L	ND	1.0	09/23/15 12:03	
Styrene	ug/L	ND	1.0	09/23/15 12:03	
Tetrachloroethene	ug/L	ND	1.0	09/23/15 12:03	
Toluene	ug/L	ND	1.0	09/23/15 12:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/23/15 12:03	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/23/15 12:03	
Trichloroethene	ug/L	ND	1.0	09/23/15 12:03	
Trichlorofluoromethane	ug/L	ND	1.0	09/23/15 12:03	
Vinyl acetate	ug/L	ND	2.0	09/23/15 12:03	
Vinyl chloride	ug/L	ND	1.0	09/23/15 12:03	
Xylene (Total)	ug/L	ND	2.0	09/23/15 12:03	
1,2-Dichloroethane-d4 (S)	%	86	70-130	09/23/15 12:03	
4-Bromofluorobenzene (S)	%	97	70-130	09/23/15 12:03	
Toluene-d8 (S)	%	100	70-130	09/23/15 12:03	

LABORATORY CONTROL SAMPLE: 1564142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,1-Trichloroethane	ug/L	50	43.9	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	96	70-130	
1,1,2-Trichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethane	ug/L	50	43.6	87	70-130	
1,1-Dichloroethene	ug/L	50	47.8	96	70-132	
1,1-Dichloropropene	ug/L	50	48.9	98	70-130	
1,2,3-Trichlorobenzene	ug/L	50	56.0	112	70-135	
1,2,3-Trichloropropane	ug/L	50	44.0	88	70-130	
1,2,4-Trichlorobenzene	ug/L	50	54.0	108	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	43.3	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	104	70-130	
1,2-Dichlorobenzene	ug/L	50	54.5	109	70-130	
1,2-Dichloroethane	ug/L	50	37.3	75	70-130	
1,2-Dichloropropane	ug/L	50	46.5	93	70-130	
1,3-Dichlorobenzene	ug/L	50	55.2	110	70-130	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

LABORATORY CONTROL SAMPLE: 1564142

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	50.8	102	70-130	
1,4-Dichlorobenzene	ug/L	50	53.4	107	70-130	
2,2-Dichloropropane	ug/L	50	46.0	92	58-145	
2-Butanone (MEK)	ug/L	100	68.3	68	70-145	L0
2-Chlorotoluene	ug/L	50	50.9	102	70-130	
2-Hexanone	ug/L	100	78.0	78	70-144	
4-Chlorotoluene	ug/L	50	53.0	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	73.1	73	70-140	
Acetone	ug/L	100	75.4	75	50-175	
Benzene	ug/L	50	53.2	106	70-130	
Bromobenzene	ug/L	50	53.7	107	70-130	
Bromochloromethane	ug/L	50	54.7	109	70-130	
Bromodichloromethane	ug/L	50	47.7	95	70-130	
Bromoform	ug/L	50	38.1	76	70-130	
Bromomethane	ug/L	50	38.0	76	54-130	
Carbon tetrachloride	ug/L	50	48.1	96	70-132	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	42.6	85	64-134	
Chloroform	ug/L	50	45.6	91	70-130	
Chloromethane	ug/L	50	26.4	53	64-130	L0
cis-1,2-Dichloroethene	ug/L	50	43.9	88	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	70-130	
Dibromochloromethane	ug/L	50	45.7	91	70-130	
Dibromomethane	ug/L	50	49.5	99	70-131	
Dichlorodifluoromethane	ug/L	50	47.7	95	56-130	
Diisopropyl ether	ug/L	50	40.6	81	70-130	
Ethylbenzene	ug/L	50	49.8	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	58.4	117	70-130	
m&p-Xylene	ug/L	100	97.2	97	70-130	
Methyl-tert-butyl ether	ug/L	50	48.4	97	70-130	
Methylene Chloride	ug/L	50	37.1	74	63-130	
Naphthalene	ug/L	50	54.8	110	70-138	
o-Xylene	ug/L	50	48.7	97	70-130	
p-Isopropyltoluene	ug/L	50	53.7	107	70-130	
Styrene	ug/L	50	53.6	107	70-130	
Tetrachloroethene	ug/L	50	50.8	102	70-130	
Toluene	ug/L	50	49.7	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	70-130	
trans-1,3-Dichloropropene	ug/L	50	45.5	91	70-132	
Trichloroethene	ug/L	50	46.5	93	70-130	
Trichlorofluoromethane	ug/L	50	41.6	83	62-133	
Vinyl acetate	ug/L	100	76.8	77	66-157	
Vinyl chloride	ug/L	50	47.4	95	50-150	
Xylene (Total)	ug/L	150	146	97	70-130	
1,2-Dichloroethane-d4 (S)	%			82	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

MATRIX SPIKE SAMPLE: 1564143

Parameter	Units	92268752001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	22.1	110	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	21.6	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.6	98	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.7	98	70-130	
1,1-Dichloroethane	ug/L	ND	20	20.2	101	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.7	118	70-166	
1,1-Dichloropropene	ug/L	ND	20	22.1	110	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	21.3	106	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	19.1	95	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.3	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.2	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.4	112	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.0	110	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.3	91	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.0	100	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.8	114	70-130	
1,3-Dichloropropane	ug/L	ND	20	21.5	107	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.1	111	70-130	
2,2-Dichloropropane	ug/L	ND	20	18.4	92	70-130	
2-Butanone (MEK)	ug/L	ND	40	32.2	80	70-130	
2-Chlorotoluene	ug/L	ND	20	24.8	124	70-130	
2-Hexanone	ug/L	ND	40	36.5	91	70-130	
4-Chlorotoluene	ug/L	ND	20	23.2	116	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	33.8	84	70-130	
Acetone	ug/L	ND	40	33.5	82	70-130	
Benzene	ug/L	ND	20	21.9	109	70-148	
Bromobenzene	ug/L	ND	20	22.8	114	70-130	
Bromochloromethane	ug/L	ND	20	22.3	111	70-130	
Bromodichloromethane	ug/L	ND	20	21.3	106	70-130	
Bromoform	ug/L	ND	20	18.4	92	70-130	
Bromomethane	ug/L	ND	20	20.7	104	70-130	
Carbon tetrachloride	ug/L	ND	20	22.7	113	70-130	
Chlorobenzene	ug/L	ND	20	22.8	114	70-146	
Chloroethane	ug/L	ND	20	20.6	103	70-130	
Chloroform	ug/L	1.7	20	22.4	103	70-130	
Chloromethane	ug/L	ND	20	13.0	65	70-130	M0
cis-1,2-Dichloroethene	ug/L	ND	20	23.1	113	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.6	98	70-130	
Dibromochloromethane	ug/L	ND	20	20.3	102	70-130	
Dibromomethane	ug/L	ND	20	20.5	103	70-130	
Dichlorodifluoromethane	ug/L	ND	20	23.1	115	70-130	
Diisopropyl ether	ug/L	ND	20	18.9	95	70-130	
Ethylbenzene	ug/L	ND	20	22.3	112	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	24.1	120	70-130	
m&p-Xylene	ug/L	ND	40	42.8	107	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.6	103	70-130	
Methylene Chloride	ug/L	ND	20	16.7	83	70-130	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

MATRIX SPIKE SAMPLE: 1564143

Parameter	Units	92268752001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	21.5	108	70-130	
o-Xylene	ug/L	ND	20	21.5	107	70-130	
p-Isopropyltoluene	ug/L	ND	20	22.1	111	70-130	
Styrene	ug/L	ND	20	20.9	104	70-130	
Tetrachloroethene	ug/L	9.2	20	54.9	229	70-130	M1
Toluene	ug/L	ND	20	21.1	105	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	21.6	108	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.9	95	70-130	
Trichloroethene	ug/L	ND	20	122	607	69-151	M1
Trichlorofluoromethane	ug/L	ND	20	21.9	109	70-130	
Vinyl acetate	ug/L	ND	40	30.9	77	70-130	
Vinyl chloride	ug/L	ND	20	21.5	107	70-130	
1,2-Dichloroethane-d4 (S)	%				94	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 1564144

Parameter	Units	92268328009 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	32.2	30.6	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	3.4	3.1	8	
1,1-Dichloroethene	ug/L	255	244	4	
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	1.5J	1.8J		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

SAMPLE DUPLICATE: 1564144

Parameter	Units	92268328009 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	0.56J	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	1.4J		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	91	93	2	
4-Bromofluorobenzene (S)	%	101	102	0	
Toluene-d8 (S)	%	100	99	1	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

QC Batch: MSV/33517
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92268845007

METHOD BLANK: 1566277
Matrix: Water
Associated Lab Samples: 92268845007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane-d4 (S)	%	102	70-130	09/25/15 08:36	
4-Bromofluorobenzene (S)	%	105	70-130	09/25/15 08:36	
Toluene-d8 (S)	%	100	70-130	09/25/15 08:36	

LABORATORY CONTROL SAMPLE: 1566278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1566279 1566280

Parameter	Units	92268841030 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane-d4 (S)	%						101	99	70-130		
4-Bromofluorobenzene (S)	%						105	107	70-130		
Toluene-d8 (S)	%						99	99	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

QC Batch: MSV/33538 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92268845009, 92268845010

METHOD BLANK: 1567646 | Matrix: Water
Associated Lab Samples: 92268845009, 92268845010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane-d4 (S)	%	99	70-130	09/26/15 01:54	
4-Bromofluorobenzene (S)	%	100	70-130	09/26/15 01:54	
Toluene-d8 (S)	%	101	70-130	09/26/15 01:54	

LABORATORY CONTROL SAMPLE: 1567647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1567648 1567649

Parameter	Units	92269043001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane-d4 (S)	%						98	96	70-130		
4-Bromofluorobenzene (S)	%						105	104	70-130		
Toluene-d8 (S)	%						100	101	70-130		

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

QC Batch: MSV/33586
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92268845008

METHOD BLANK: 1569520
Matrix: Water
Associated Lab Samples: 92268845008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1-Dichloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1-Dichloroethene	ug/L	ND	1.0	09/30/15 11:27	
1,1-Dichloropropene	ug/L	ND	1.0	09/30/15 11:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/30/15 11:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	09/30/15 11:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/30/15 11:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
1,2-Dichloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,2-Dichloropropane	ug/L	ND	1.0	09/30/15 11:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
1,3-Dichloropropane	ug/L	ND	1.0	09/30/15 11:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
2,2-Dichloropropane	ug/L	ND	1.0	09/30/15 11:27	
2-Butanone (MEK)	ug/L	ND	5.0	09/30/15 11:27	
2-Chlorotoluene	ug/L	ND	1.0	09/30/15 11:27	
2-Hexanone	ug/L	ND	5.0	09/30/15 11:27	
4-Chlorotoluene	ug/L	ND	1.0	09/30/15 11:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/30/15 11:27	
Acetone	ug/L	ND	25.0	09/30/15 11:27	
Benzene	ug/L	ND	1.0	09/30/15 11:27	
Bromobenzene	ug/L	ND	1.0	09/30/15 11:27	
Bromochloromethane	ug/L	ND	1.0	09/30/15 11:27	
Bromodichloromethane	ug/L	ND	1.0	09/30/15 11:27	
Bromoform	ug/L	ND	1.0	09/30/15 11:27	
Bromomethane	ug/L	ND	2.0	09/30/15 11:27	
Carbon tetrachloride	ug/L	ND	1.0	09/30/15 11:27	
Chlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
Chloroethane	ug/L	ND	1.0	09/30/15 11:27	
Chloroform	ug/L	ND	1.0	09/30/15 11:27	
Chloromethane	ug/L	ND	1.0	09/30/15 11:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/30/15 11:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/30/15 11:27	
Dibromochloromethane	ug/L	ND	1.0	09/30/15 11:27	
Dibromomethane	ug/L	ND	1.0	09/30/15 11:27	
Dichlorodifluoromethane	ug/L	ND	1.0	09/30/15 11:27	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

METHOD BLANK: 1569520 Matrix: Water
Associated Lab Samples: 92268845008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	09/30/15 11:27	
Ethylbenzene	ug/L	ND	1.0	09/30/15 11:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/30/15 11:27	
m&p-Xylene	ug/L	ND	2.0	09/30/15 11:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/30/15 11:27	
Methylene Chloride	ug/L	ND	2.0	09/30/15 11:27	
Naphthalene	ug/L	ND	1.0	09/30/15 11:27	
o-Xylene	ug/L	ND	1.0	09/30/15 11:27	
p-Isopropyltoluene	ug/L	ND	1.0	09/30/15 11:27	
Styrene	ug/L	ND	1.0	09/30/15 11:27	
Tetrachloroethene	ug/L	ND	1.0	09/30/15 11:27	
Toluene	ug/L	ND	1.0	09/30/15 11:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/30/15 11:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/30/15 11:27	
Trichloroethene	ug/L	ND	1.0	09/30/15 11:27	
Trichlorofluoromethane	ug/L	ND	1.0	09/30/15 11:27	
Vinyl acetate	ug/L	ND	2.0	09/30/15 11:27	
Vinyl chloride	ug/L	ND	1.0	09/30/15 11:27	
Xylene (Total)	ug/L	ND	2.0	09/30/15 11:27	
1,2-Dichloroethane-d4 (S)	%	100	70-130	09/30/15 11:27	
4-Bromofluorobenzene (S)	%	100	70-130	09/30/15 11:27	
Toluene-d8 (S)	%	96	70-130	09/30/15 11:27	

LABORATORY CONTROL SAMPLE: 1569521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	70-130	
1,1,1-Trichloroethane	ug/L	50	54.8	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.7	111	70-130	
1,1,2-Trichloroethane	ug/L	50	42.6	85	70-130	
1,1-Dichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethene	ug/L	50	50.2	100	70-132	
1,1-Dichloropropene	ug/L	50	52.9	106	70-130	
1,2,3-Trichlorobenzene	ug/L	50	45.3	91	70-135	
1,2,3-Trichloropropane	ug/L	50	49.7	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.2	100	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.4	93	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	70-130	
1,2-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,2-Dichloroethane	ug/L	50	47.5	95	70-130	
1,2-Dichloropropane	ug/L	50	50.7	101	70-130	
1,3-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,3-Dichloropropane	ug/L	50	51.3	103	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

LABORATORY CONTROL SAMPLE: 1569521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	58.8	118	58-145	
2-Butanone (MEK)	ug/L	100	107	107	70-145	
2-Chlorotoluene	ug/L	50	49.2	98	70-130	
2-Hexanone	ug/L	100	103	103	70-144	
4-Chlorotoluene	ug/L	50	53.4	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	86.7	87	70-140	
Acetone	ug/L	100	106	106	50-175	
Benzene	ug/L	50	52.4	105	70-130	
Bromobenzene	ug/L	50	52.7	105	70-130	
Bromochloromethane	ug/L	50	55.2	110	70-130	
Bromodichloromethane	ug/L	50	53.0	106	70-130	
Bromoform	ug/L	50	48.3	97	70-130	
Bromomethane	ug/L	50	45.2	90	54-130	
Carbon tetrachloride	ug/L	50	57.1	114	70-132	
Chlorobenzene	ug/L	50	51.5	103	70-130	
Chloroethane	ug/L	50	45.1	90	64-134	
Chloroform	ug/L	50	52.3	105	70-130	
Chloromethane	ug/L	50	52.8	106	64-130	
cis-1,2-Dichloroethene	ug/L	50	53.9	108	70-131	
cis-1,3-Dichloropropene	ug/L	50	45.6	91	70-130	
Dibromochloromethane	ug/L	50	50.0	100	70-130	
Dibromomethane	ug/L	50	53.5	107	70-131	
Dichlorodifluoromethane	ug/L	50	46.1	92	56-130	
Diisopropyl ether	ug/L	50	59.3	119	70-130	
Ethylbenzene	ug/L	50	52.9	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	63.9	128	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	53.7	107	70-130	
Methylene Chloride	ug/L	50	51.6	103	63-130	
Naphthalene	ug/L	50	45.8	92	70-138	
o-Xylene	ug/L	50	51.5	103	70-130	
p-Isopropyltoluene	ug/L	50	55.3	111	70-130	
Styrene	ug/L	50	52.8	106	70-130	
Tetrachloroethene	ug/L	50	48.5	97	70-130	
Toluene	ug/L	50	43.6	87	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.3	97	70-132	
Trichloroethene	ug/L	50	48.1	96	70-130	
Trichlorofluoromethane	ug/L	50	50.5	101	62-133	
Vinyl acetate	ug/L	100	118	118	66-157	
Vinyl chloride	ug/L	50	52.1	104	50-150	
Xylene (Total)	ug/L	150	158	106	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			84	70-130	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

MATRIX SPIKE SAMPLE: 1569522

Parameter	Units	92268976017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.8	104	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.7	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.4	107	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.4	112	70-130	
1,1-Dichloroethene	ug/L	ND	20	21.7	109	70-166	
1,1-Dichloropropene	ug/L	ND	20	23.0	115	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	16.8	84	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	19.6	98	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.9	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.1	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.2	106	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	ND	20	19.5	98	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.9	109	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.5	112	70-130	
1,3-Dichloropropane	ug/L	ND	20	21.3	107	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.3	107	70-130	
2,2-Dichloropropane	ug/L	ND	20	19.1	96	70-130	
2-Butanone (MEK)	ug/L	25.7	40	71.8	115	70-130	
2-Chlorotoluene	ug/L	ND	20	23.2	116	70-130	
2-Hexanone	ug/L	ND	40	43.2	108	70-130	
4-Chlorotoluene	ug/L	ND	20	22.8	114	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	45.2	113	70-130	
Acetone	ug/L	40.9	40	87.5	117	70-130	
Benzene	ug/L	3.2	20	25.3	110	70-148	
Bromobenzene	ug/L	ND	20	22.8	114	70-130	
Bromochloromethane	ug/L	ND	20	22.6	113	70-130	
Bromodichloromethane	ug/L	ND	20	22.8	114	70-130	
Bromoform	ug/L	ND	20	18.7	93	70-130	
Bromomethane	ug/L	ND	20	21.8	109	70-130	
Carbon tetrachloride	ug/L	ND	20	23.0	115	70-130	
Chlorobenzene	ug/L	ND	20	21.2	106	70-146	
Chloroethane	ug/L	ND	20	19.3	97	70-130	
Chloroform	ug/L	ND	20	21.4	107	70-130	
Chloromethane	ug/L	ND	20	22.8	114	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.5	113	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	21.1	105	70-130	
Dibromochloromethane	ug/L	ND	20	19.6	98	70-130	
Dibromomethane	ug/L	ND	20	21.8	109	70-130	
Dichlorodifluoromethane	ug/L	ND	20	21.5	108	70-130	
Diisopropyl ether	ug/L	ND	20	23.1	115	70-130	
Ethylbenzene	ug/L	ND	20	22.2	110	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	25.7	128	70-130	
m&p-Xylene	ug/L	ND	40	44.2	110	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.8	109	70-130	
Methylene Chloride	ug/L	ND	20	18.3	91	70-130	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

MATRIX SPIKE SAMPLE: 1569522

Parameter	Units	92268976017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	17.6	88	70-130	
o-Xylene	ug/L	ND	20	21.3	107	70-130	
p-Isopropyltoluene	ug/L	ND	20	22.7	114	70-130	
Styrene	ug/L	ND	20	21.0	105	70-130	
Tetrachloroethene	ug/L	ND	20	19.9	100	70-130	
Toluene	ug/L	ND	20	22.1	108	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	22.0	110	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	20.8	104	70-130	
Trichloroethene	ug/L	ND	20	20.0	100	69-151	
Trichlorofluoromethane	ug/L	ND	20	22.5	113	70-130	
Vinyl acetate	ug/L	ND	40	47.8	119	70-130	
Vinyl chloride	ug/L	ND	20	22.8	114	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1569523

Parameter	Units	92269399008 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

SAMPLE DUPLICATE: 1569523

Parameter	Units	92269399008 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	1.5	1.4	6	
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	99	100	1	
4-Bromofluorobenzene (S)	%	99	100	1	
Toluene-d8 (S)	%	99	99	1	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

QC Batch: MSV/33509 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92268845002, 92268845003, 92268845004

METHOD BLANK: 1565956 Matrix: Water
Associated Lab Samples: 92268845002, 92268845003, 92268845004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane-d4 (S)	%	131	50-150	09/24/15 14:55	
Toluene-d8 (S)	%	93	50-150	09/24/15 14:55	

LABORATORY CONTROL SAMPLE: 1565957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			124	50-150	
Toluene-d8 (S)	%			93	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1565958 1565959

Parameter	Units	92268494011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane-d4 (S)	%						134	131	50-150		
Toluene-d8 (S)	%						91	91	50-150		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

QC Batch: MSV/33510 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92268845005, 92268845006, 92268845007, 92268845008

METHOD BLANK: 1565960 Matrix: Water
Associated Lab Samples: 92268845005, 92268845006, 92268845007, 92268845008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	09/24/15 14:34	
1,2-Dichloroethane-d4 (S)	%	126	50-150	09/24/15 14:34	
Toluene-d8 (S)	%	93	50-150	09/24/15 14:34	

LABORATORY CONTROL SAMPLE: 1565961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.3	91	71-125	
1,2-Dichloroethane-d4 (S)	%			127	50-150	
Toluene-d8 (S)	%			95	50-150	

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QUALITY CONTROL DATA

Project: Trex 03130430
Pace Project No.: 92268845

QC Batch: MSV/33604 | Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. | Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92268845001

METHOD BLANK: 1571305 | Matrix: Water
Associated Lab Samples: 92268845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	10/01/15 11:10	
1,2-Dichloroethane-d4 (S)	%	106	50-150	10/01/15 11:10	
Toluene-d8 (S)	%	84	50-150	10/01/15 11:10	

LABORATORY CONTROL SAMPLE: 1571306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.5	103	71-125	
1,2-Dichloroethane-d4 (S)	%			104	50-150	
Toluene-d8 (S)	%			85	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1571307 1571308

Parameter	Units	92269043001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	19.5	19.9	98	99	50-150	2	
1,2-Dichloroethane-d4 (S)	%						107	106	50-150		
Toluene-d8 (S)	%						83	86	50-150		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Trex 03130430
Pace Project No.: 92268845

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Trex 03130430
Pace Project No.: 92268845

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92268845001	**PMW-22A**	EPA 8260	MSV/33491		
92268845002	**PMW-22B**	EPA 8260	MSV/33491		
92268845003	**PMW-12A**	EPA 8260	MSV/33491		
92268845004	**PMW-12B**	EPA 8260	MSV/33491		
92268845005	**PMW-11A**	EPA 8260	MSV/33491		
92268845006	**PMW-11B**	EPA 8260	MSV/33491		
92268845007	**PMW-10A**	EPA 8260	MSV/33517		
92268845008	**PMW-10B**	EPA 8260	MSV/33586		
92268845009	**Rinsate**	EPA 8260	MSV/33538		
92268845010	**Field Blank**	EPA 8260	MSV/33538		
92268845011	**Trip Blank**	EPA 8260	MSV/33491		
92268845012	**Trip Blank**	EPA 8260	MSV/33491		
92268845001	**PMW-22A**	EPA 8260B Mod.	MSV/33604		
92268845002	**PMW-22B**	EPA 8260B Mod.	MSV/33509		
92268845003	**PMW-12A**	EPA 8260B Mod.	MSV/33509		
92268845004	**PMW-12B**	EPA 8260B Mod.	MSV/33509		
92268845005	**PMW-11A**	EPA 8260B Mod.	MSV/33510		
92268845006	**PMW-11B**	EPA 8260B Mod.	MSV/33510		
92268845007	**PMW-10A**	EPA 8260B Mod.	MSV/33510		
92268845008	**PMW-10B**	EPA 8260B Mod.	MSV/33510		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR)	Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16	Issuing Authority: Pace Huntersville Quality Office

Client Name: ECT

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USP ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1402 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1402 No Correction

Corrected Cooler Temp.: 4.3 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: AC 9/22

Temp should be above freezing to 6°C

		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. only received 3 Vials for Rinstate 9/22 & FieldBlank 9/22 instead of 6.
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: wt		
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	
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: _____

SCURF Review: AMB Date: 9-23-15

SRF Review: Date:

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)

WO# : 92268845

92268845

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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: of

1997880

Section A Required Client Information:

Company: ECT
Address: 1650 Des Peres Rd, St Louis, MO 63131
Email To: ctaylor@withersravenel.com
Phone: 919-201-5768 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: David Crisp
Copy To: Brian Bellis
Purchase Order No.:
Project Name: PPEX
Project Number: 03130430

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 4515-1

REGULATORY AGENCY

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

Site Location STATE: NC

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs by 8260	1,4 Dioxane SIM	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92268845
1	PMW-22 A					9/22	1040		6				6					X	X		001
2	PMW-22 B						1045						6					X	X		002
3	PMW-12 A						1210						6					X	X		003
4	PMW-12 B						1215						6					X	X		004
5	PMW-11 A						1315						6					X	X		005
6	PMW-11 B						1315						6					X	X		006
7	PMW-10 A						1405						6					X	X		007
8	PMW-10 B						1415						6					X	X		008
9	~~Equip~~ Rinsate 9/22						1430						6					X			009
10	Field Blank 9/22						1500		1				6					X			010
11	Trip Blank						✓		2				2					X			011
12	Trip Blank								2				2					X			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Sampler	9/22	1430	Pace	9/22/15	1430				
	Pace	9/22/15	1730	Pace	9/22/15	17:30	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chris Fox

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 9/22/15

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

*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.

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

October 05, 2015

David Craig
EnviroAnalytics Group
1650 Des Peres Road
Suite 303
Saint Louis, MO 63131

RE: Project: TREX PROP 03130430
Pace Project No.: 92269380

Dear David Craig:
Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2015. 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.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: TREX PROP 03130430
Pace Project No.: 92269380

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92269380001	**PMW-7A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380002	**PMW-7B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380003	**PMW-21A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380004	**PMW-21B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380005	**PMW-6A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380006	**PMW-5A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380007	**PMW-1A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380008	**PMW-1B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380009	**PMW-2A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380010	**PMW-2B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380011	**PMW-3A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380012	**PMW-18B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380013	**PMW-20A**	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380014	**PMW-20B**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380015	**FIELD BLANK 9/23**	EPA 8260	GAW	63	PASI-C
92269380016	**EQUIPMENT BLANK 9/23**	EPA 8260	GAW	63	PASI-C
92269380017	**TRIP BLANK**	EPA 8260	NB	63	PASI-C
92269380018	**TRIP BLANK 2**	EPA 8260	NB	63	PASI-C
92269380019	**DUPLICATE**	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380020	**PMW-8A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380021	**PMW-8B**	EPA 8260	GAW	63	PASI-C

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SAMPLE ANALYTE COUNT

Project: TREX PROP 03130430
Pace Project No.: 92269380

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B Mod.	DLK	3	PASI-C
92269380022	**PMW-13B**	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380023	**PMW-9A**	EPA 8260	NB	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380024	**PMW-9B**	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380025	**PMW-9C**	EPA 8260	GAW	63	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
92269380026	**TAP**	EPA 8260	NB	63	PASI-C

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-7A **Lab ID: 92269380001** Collected: 09/23/15 08:30 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		09/29/15 08:18	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 08:18	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 08:18	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		09/29/15 08:18	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 08:18	75-27-4	
Bromoform	ND	ug/L	10.0	10		09/29/15 08:18	75-25-2	
Bromomethane	ND	ug/L	20.0	10		09/29/15 08:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		09/29/15 08:18	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 08:18	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		09/29/15 08:18	108-90-7	
Chloroethane	ND	ug/L	10.0	10		09/29/15 08:18	75-00-3	
Chloroform	ND	ug/L	10.0	10		09/29/15 08:18	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 08:18	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:18	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		09/29/15 08:18	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		09/29/15 08:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 08:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		09/29/15 08:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 08:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		09/29/15 08:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 08:18	107-06-2	
1,1-Dichloroethene	**13.7**	ug/L	10.0	10		09/29/15 08:18	75-35-4	
cis-1,2-Dichloroethene	**341**	ug/L	10.0	10		09/29/15 08:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		09/29/15 08:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:18	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 08:18	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 08:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 08:18	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		09/29/15 08:18	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 08:18	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 08:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		09/29/15 08:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 08:18	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 08:18	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 08:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 08:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 08:18	79-34-5	
Tetrachloroethene	**1870**	ug/L	10.0	10		09/29/15 08:18	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-7A **Lab ID: 92269380001** Collected: 09/23/15 08:30 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 08:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/29/15 08:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 08:18	79-00-5	
Trichloroethene	**5320**	ug/L	50.0	50		09/29/15 12:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 08:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 08:18	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		09/29/15 08:18	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 08:18	75-01-4	
Xylene (Total)	ND	ug/L	20.0	10		09/29/15 08:18	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 08:18	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 08:18	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	10		09/29/15 08:18	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	10		09/29/15 08:18	17060-07-0	
Toluene-d8 (S)	101	%	70-130	10		09/29/15 08:18	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**3.2**	ug/L	2.0	1		10/02/15 04:04	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	50-150	1		10/02/15 04:04	17060-07-0	
Toluene-d8 (S)	80	%	50-150	1		10/02/15 04:04	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-7B **Lab ID: 92269380002** Collected: 09/23/15 08:15 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		09/29/15 08:36	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 08:36	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 08:36	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		09/29/15 08:36	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 08:36	75-27-4	
Bromoform	ND	ug/L	10.0	10		09/29/15 08:36	75-25-2	
Bromomethane	ND	ug/L	20.0	10		09/29/15 08:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		09/29/15 08:36	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 08:36	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		09/29/15 08:36	108-90-7	
Chloroethane	ND	ug/L	10.0	10		09/29/15 08:36	75-00-3	
Chloroform	ND	ug/L	10.0	10		09/29/15 08:36	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 08:36	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:36	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		09/29/15 08:36	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		09/29/15 08:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 08:36	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		09/29/15 08:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 08:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		09/29/15 08:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 08:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		09/29/15 08:36	75-35-4	
cis-1,2-Dichloroethene	**22.4**	ug/L	10.0	10		09/29/15 08:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		09/29/15 08:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:36	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 08:36	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 08:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 08:36	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		09/29/15 08:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 08:36	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 08:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		09/29/15 08:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 08:36	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 08:36	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 08:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 08:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 08:36	79-34-5	
Tetrachloroethene	**1190**	ug/L	10.0	10		09/29/15 08:36	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-7B **Lab ID: 92269380002** Collected: 09/23/15 08:15 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 08:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/29/15 08:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 08:36	79-00-5	
Trichloroethene	**9390**	ug/L	100	100		09/29/15 13:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 08:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 08:36	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		09/29/15 08:36	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 08:36	75-01-4	
Xylene (Total)	ND	ug/L	20.0	10		09/29/15 08:36	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 08:36	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 08:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	10		09/29/15 08:36	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	10		09/29/15 08:36	17060-07-0	
Toluene-d8 (S)	100	%	70-130	10		09/29/15 08:36	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**2.7**	ug/L	2.0	1		10/02/15 04:25	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	50-150	1		10/02/15 04:25	17060-07-0	
Toluene-d8 (S)	80	%	50-150	1		10/02/15 04:25	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-21A **Lab ID: 92269380003** Collected: 09/23/15 09:10 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		09/29/15 08:53	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 08:53	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 08:53	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		09/29/15 08:53	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 08:53	75-27-4	
Bromoform	ND	ug/L	10.0	10		09/29/15 08:53	75-25-2	
Bromomethane	ND	ug/L	20.0	10		09/29/15 08:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		09/29/15 08:53	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 08:53	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		09/29/15 08:53	108-90-7	
Chloroethane	ND	ug/L	10.0	10		09/29/15 08:53	75-00-3	
Chloroform	ND	ug/L	10.0	10		09/29/15 08:53	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 08:53	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:53	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		09/29/15 08:53	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		09/29/15 08:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 08:53	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		09/29/15 08:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 08:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		09/29/15 08:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 08:53	107-06-2	
1,1-Dichloroethene	**13.1**	ug/L	10.0	10		09/29/15 08:53	75-35-4	
cis-1,2-Dichloroethene	**167**	ug/L	10.0	10		09/29/15 08:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		09/29/15 08:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:53	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 08:53	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 08:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 08:53	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		09/29/15 08:53	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 08:53	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 08:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		09/29/15 08:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 08:53	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 08:53	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 08:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 08:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 08:53	79-34-5	
Tetrachloroethene	**1030**	ug/L	10.0	10		09/29/15 08:53	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-21A **Lab ID: 92269380003** Collected: 09/23/15 09:10 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 08:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/29/15 08:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 08:53	79-00-5	
Trichloroethene	**1260**	ug/L	10.0	10		09/29/15 08:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 08:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 08:53	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		09/29/15 08:53	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 08:53	75-01-4	
Xylene (Total)	ND	ug/L	20.0	10		09/29/15 08:53	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 08:53	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 08:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	10		09/29/15 08:53	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	10		09/29/15 08:53	17060-07-0	
Toluene-d8 (S)	102	%	70-130	10		09/29/15 08:53	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 04:45	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	50-150	1		10/02/15 04:45	17060-07-0	
Toluene-d8 (S)	80	%	50-150	1		10/02/15 04:45	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-21B **Lab ID: 92269380004** Collected: 09/23/15 09:20 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		09/29/15 09:10	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 09:10	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 09:10	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		09/29/15 09:10	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 09:10	75-27-4	
Bromoform	ND	ug/L	10.0	10		09/29/15 09:10	75-25-2	
Bromomethane	ND	ug/L	20.0	10		09/29/15 09:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		09/29/15 09:10	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 09:10	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		09/29/15 09:10	108-90-7	
Chloroethane	ND	ug/L	10.0	10		09/29/15 09:10	75-00-3	
Chloroform	ND	ug/L	10.0	10		09/29/15 09:10	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 09:10	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 09:10	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 09:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		09/29/15 09:10	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		09/29/15 09:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 09:10	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		09/29/15 09:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 09:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		09/29/15 09:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 09:10	107-06-2	
1,1-Dichloroethene	**103**	ug/L	10.0	10		09/29/15 09:10	75-35-4	D6
cis-1,2-Dichloroethene	**38.7**	ug/L	10.0	10		09/29/15 09:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		09/29/15 09:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 09:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 09:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 09:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 09:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 09:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 09:10	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 09:10	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 09:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 09:10	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		09/29/15 09:10	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 09:10	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 09:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		09/29/15 09:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 09:10	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 09:10	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 09:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 09:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 09:10	79-34-5	
Tetrachloroethene	**8330**	ug/L	100	100		09/29/15 13:24	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-21B **Lab ID: 92269380004** Collected: 09/23/15 09:20 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 09:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:10	120-82-1	
1,1,1-Trichloroethane	**37.6**	ug/L	10.0	10		09/29/15 09:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 09:10	79-00-5	
Trichloroethene	**12000**	ug/L	100	100		09/29/15 13:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 09:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 09:10	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		09/29/15 09:10	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 09:10	75-01-4	
Xylene (Total)	ND	ug/L	20.0	10		09/29/15 09:10	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 09:10	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 09:10	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	10		09/29/15 09:10	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	10		09/29/15 09:10	17060-07-0	
Toluene-d8 (S)	98	%	70-130	10		09/29/15 09:10	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**4.0**	ug/L	2.0	1		10/02/15 05:05	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		10/02/15 05:05	17060-07-0	
Toluene-d8 (S)	83	%	50-150	1		10/02/15 05:05	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-6A **Lab ID: 92269380005** Collected: 09/23/15 09:55 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		09/29/15 09:27	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 09:27	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 09:27	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		09/29/15 09:27	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 09:27	75-27-4	
Bromoform	ND	ug/L	10.0	10		09/29/15 09:27	75-25-2	
Bromomethane	ND	ug/L	20.0	10		09/29/15 09:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		09/29/15 09:27	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 09:27	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		09/29/15 09:27	108-90-7	
Chloroethane	ND	ug/L	10.0	10		09/29/15 09:27	75-00-3	
Chloroform	**62.1**	ug/L	10.0	10		09/29/15 09:27	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 09:27	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 09:27	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 09:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		09/29/15 09:27	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		09/29/15 09:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 09:27	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		09/29/15 09:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 09:27	75-71-8	
1,1-Dichloroethane	**68.2**	ug/L	10.0	10		09/29/15 09:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 09:27	107-06-2	
1,1-Dichloroethene	**5330**	ug/L	5000	1000		09/29/15 13:58	75-35-4	
cis-1,2-Dichloroethene	**6930**	ug/L	5000	1000		09/29/15 13:58	156-59-2	
trans-1,2-Dichloroethene	**227**	ug/L	10.0	10		09/29/15 09:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 09:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 09:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 09:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 09:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 09:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 09:27	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 09:27	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 09:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 09:27	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		09/29/15 09:27	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 09:27	99-87-6	
Methylene Chloride	**887**	ug/L	20.0	10		09/29/15 09:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		09/29/15 09:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 09:27	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 09:27	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 09:27	100-42-5	
1,1,1,2-Tetrachloroethane	**15.2**	ug/L	10.0	10		09/29/15 09:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 09:27	79-34-5	
Tetrachloroethene	**36200**	ug/L	1000	1000		09/29/15 13:58	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-6A **Lab ID: 92269380005** Collected: 09/23/15 09:55 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	**121**	ug/L	10.0	10		09/29/15 09:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:27	120-82-1	
1,1,1-Trichloroethane	**1640**	ug/L	10.0	10		09/29/15 09:27	71-55-6	
1,1,2-Trichloroethane	**22.9**	ug/L	10.0	10		09/29/15 09:27	79-00-5	
Trichloroethene	**94200**	ug/L	1000	1000		09/29/15 13:58	79-01-6	
Trichlorofluoromethane	**546**	ug/L	10.0	10		09/29/15 09:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 09:27	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		09/29/15 09:27	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 09:27	75-01-4	
Xylene (Total)	**52.5**	ug/L	20.0	10		09/29/15 09:27	1330-20-7	
m&p-Xylene	**29.1**	ug/L	20.0	10		09/29/15 09:27	179601-23-1	
o-Xylene	**23.3**	ug/L	10.0	10		09/29/15 09:27	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	10		09/29/15 09:27	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	10		09/29/15 09:27	17060-07-0	
Toluene-d8 (S)	96	%	70-130	10		09/29/15 09:27	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**857**	ug/L	20.0	10		10/02/15 13:22	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	50-150	1		10/02/15 05:25	17060-07-0	
Toluene-d8 (S)	82	%	50-150	1		10/02/15 05:25	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-5A **Lab ID: 92269380006** Collected: 09/23/15 10:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		09/29/15 09:44	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 09:44	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 09:44	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		09/29/15 09:44	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 09:44	75-27-4	
Bromoform	ND	ug/L	10.0	10		09/29/15 09:44	75-25-2	
Bromomethane	ND	ug/L	20.0	10		09/29/15 09:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		09/29/15 09:44	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 09:44	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		09/29/15 09:44	108-90-7	
Chloroethane	ND	ug/L	10.0	10		09/29/15 09:44	75-00-3	
Chloroform	**16.9**	ug/L	10.0	10		09/29/15 09:44	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 09:44	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 09:44	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 09:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		09/29/15 09:44	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		09/29/15 09:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 09:44	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		09/29/15 09:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 09:44	75-71-8	
1,1-Dichloroethane	**72.8**	ug/L	10.0	10		09/29/15 09:44	75-34-3	
1,2-Dichloroethane	**10.9**	ug/L	10.0	10		09/29/15 09:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5000	1000		09/29/15 14:15	75-35-4	
cis-1,2-Dichloroethene	**5170**	ug/L	5000	1000		09/29/15 14:15	156-59-2	
trans-1,2-Dichloroethene	**36.8**	ug/L	10.0	10		09/29/15 09:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 09:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 09:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 09:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 09:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 09:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 09:44	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 09:44	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 09:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 09:44	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		09/29/15 09:44	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 09:44	99-87-6	
Methylene Chloride	**63.3**	ug/L	20.0	10		09/29/15 09:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		09/29/15 09:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 09:44	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 09:44	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 09:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 09:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 09:44	79-34-5	
Tetrachloroethene	**19500**	ug/L	1000	1000		09/29/15 14:15	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-5A **Lab ID: 92269380006** Collected: 09/23/15 10:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 09:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 09:44	120-82-1	
1,1,1-Trichloroethane	**1950**	ug/L	10.0	10		09/29/15 09:44	71-55-6	
1,1,2-Trichloroethane	**17.6**	ug/L	10.0	10		09/29/15 09:44	79-00-5	
Trichloroethene	**88600**	ug/L	1000	1000		09/29/15 14:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 09:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 09:44	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		09/29/15 09:44	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 09:44	75-01-4	
Xylene (Total)	ND	ug/L	20.0	10		09/29/15 09:44	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 09:44	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 09:44	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	10		09/29/15 09:44	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	10		09/29/15 09:44	17060-07-0	
Toluene-d8 (S)	96	%	70-130	10		09/29/15 09:44	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**200**	ug/L	5.0	2.5		10/02/15 15:44	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	50-150	2.5		10/02/15 15:44	17060-07-0	
Toluene-d8 (S)	81	%	50-150	2.5		10/02/15 15:44	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-1A **Lab ID: 92269380007** Collected: 09/23/15 11:45 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		09/29/15 10:01	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 10:01	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 10:01	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		09/29/15 10:01	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 10:01	75-27-4	
Bromoform	ND	ug/L	10.0	10		09/29/15 10:01	75-25-2	
Bromomethane	ND	ug/L	20.0	10		09/29/15 10:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		09/29/15 10:01	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 10:01	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		09/29/15 10:01	108-90-7	
Chloroethane	ND	ug/L	10.0	10		09/29/15 10:01	75-00-3	
Chloroform	ND	ug/L	10.0	10		09/29/15 10:01	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 10:01	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 10:01	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 10:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		09/29/15 10:01	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		09/29/15 10:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 10:01	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		09/29/15 10:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 10:01	75-71-8	
1,1-Dichloroethane	**121**	ug/L	10.0	10		09/29/15 10:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 10:01	107-06-2	
1,1-Dichloroethene	**43.9**	ug/L	10.0	10		09/29/15 10:01	75-35-4	
cis-1,2-Dichloroethene	**11400**	ug/L	500	100		09/29/15 14:32	156-59-2	
trans-1,2-Dichloroethene	**21.8**	ug/L	10.0	10		09/29/15 10:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 10:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 10:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 10:01	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 10:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 10:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 10:01	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 10:01	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 10:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 10:01	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		09/29/15 10:01	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 10:01	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 10:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		09/29/15 10:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 10:01	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 10:01	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 10:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 10:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 10:01	79-34-5	
Tetrachloroethene	**34.0**	ug/L	10.0	10		09/29/15 10:01	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-1A **Lab ID: 92269380007** Collected: 09/23/15 11:45 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 10:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:01	120-82-1	
1,1,1-Trichloroethane	**184**	ug/L	10.0	10		09/29/15 10:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 10:01	79-00-5	
Trichloroethene	**150**	ug/L	10.0	10		09/29/15 10:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 10:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 10:01	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		09/29/15 10:01	108-05-4	
Vinyl chloride	**198**	ug/L	10.0	10		09/29/15 10:01	75-01-4	
Xylene (Total)	ND	ug/L	20.0	10		09/29/15 10:01	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 10:01	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 10:01	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	10		09/29/15 10:01	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	10		09/29/15 10:01	17060-07-0	
Toluene-d8 (S)	102	%	70-130	10		09/29/15 10:01	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 16:04	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	50-150	1		10/02/15 16:04	17060-07-0	
Toluene-d8 (S)	76	%	50-150	1		10/02/15 16:04	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-1B **Lab ID: 92269380008** Collected: 09/23/15 12:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	125	5		09/30/15 15:58	67-64-1	
Benzene	ND	ug/L	5.0	5		09/30/15 15:58	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		09/30/15 15:58	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		09/30/15 15:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		09/30/15 15:58	75-27-4	
Bromoform	ND	ug/L	5.0	5		09/30/15 15:58	75-25-2	
Bromomethane	ND	ug/L	10.0	5		09/30/15 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5		09/30/15 15:58	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	5		09/30/15 15:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		09/30/15 15:58	108-90-7	
Chloroethane	ND	ug/L	5.0	5		09/30/15 15:58	75-00-3	
Chloroform	ND	ug/L	5.0	5		09/30/15 15:58	67-66-3	
Chloromethane	ND	ug/L	5.0	5		09/30/15 15:58	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		09/30/15 15:58	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		09/30/15 15:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5		09/30/15 15:58	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		09/30/15 15:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		09/30/15 15:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		09/30/15 15:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		09/30/15 15:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		09/30/15 15:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		09/30/15 15:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		09/30/15 15:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		09/30/15 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		09/30/15 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		09/30/15 15:58	75-35-4	
cis-1,2-Dichloroethene	**413**	ug/L	5.0	5		09/30/15 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		09/30/15 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		09/30/15 15:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		09/30/15 15:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		09/30/15 15:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		09/30/15 15:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		09/30/15 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		09/30/15 15:58	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	5		09/30/15 15:58	108-20-3	
Ethylbenzene	ND	ug/L	5.0	5		09/30/15 15:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		09/30/15 15:58	87-68-3	
2-Hexanone	ND	ug/L	25.0	5		09/30/15 15:58	591-78-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		09/30/15 15:58	99-87-6	
Methylene Chloride	ND	ug/L	10.0	5		09/30/15 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		09/30/15 15:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		09/30/15 15:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	5		09/30/15 15:58	91-20-3	
Styrene	ND	ug/L	5.0	5		09/30/15 15:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		09/30/15 15:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		09/30/15 15:58	79-34-5	
Tetrachloroethene	**29.1**	ug/L	5.0	5		09/30/15 15:58	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-1B **Lab ID: 92269380008** Collected: 09/23/15 12:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	5.0	5		09/30/15 15:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		09/30/15 15:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		09/30/15 15:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		09/30/15 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		09/30/15 15:58	79-00-5	
Trichloroethene	**38.5**	ug/L	5.0	5		09/30/15 15:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		09/30/15 15:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		09/30/15 15:58	96-18-4	
Vinyl acetate	ND	ug/L	10.0	5		09/30/15 15:58	108-05-4	
Vinyl chloride	ND	ug/L	5.0	5		09/30/15 15:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	5		09/30/15 15:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		09/30/15 15:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		09/30/15 15:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	5		09/30/15 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	5		09/30/15 15:58	17060-07-0	
Toluene-d8 (S)	102	%	70-130	5		09/30/15 15:58	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/01/15 21:00	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	50-150	1		10/01/15 21:00	17060-07-0	
Toluene-d8 (S)	81	%	50-150	1		10/01/15 21:00	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-2A **Lab ID: 92269380009** Collected: 09/23/15 11:20 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		09/29/15 10:35	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 10:35	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 10:35	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		09/29/15 10:35	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 10:35	75-27-4	
Bromoform	ND	ug/L	10.0	10		09/29/15 10:35	75-25-2	
Bromomethane	ND	ug/L	20.0	10		09/29/15 10:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		09/29/15 10:35	78-93-3	
Carbon tetrachloride	**16.9**	ug/L	10.0	10		09/29/15 10:35	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		09/29/15 10:35	108-90-7	
Chloroethane	ND	ug/L	10.0	10		09/29/15 10:35	75-00-3	
Chloroform	ND	ug/L	10.0	10		09/29/15 10:35	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 10:35	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 10:35	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 10:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		09/29/15 10:35	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		09/29/15 10:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 10:35	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		09/29/15 10:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 10:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		09/29/15 10:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 10:35	107-06-2	
1,1-Dichloroethene	**30.4**	ug/L	10.0	10		09/29/15 10:35	75-35-4	
cis-1,2-Dichloroethene	**18.9**	ug/L	10.0	10		09/29/15 10:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		09/29/15 10:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 10:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 10:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 10:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 10:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 10:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 10:35	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 10:35	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 10:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 10:35	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		09/29/15 10:35	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 10:35	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 10:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		09/29/15 10:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 10:35	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 10:35	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 10:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 10:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 10:35	79-34-5	
Tetrachloroethene	**1360**	ug/L	10.0	10		09/29/15 10:35	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-2A **Lab ID: 92269380009** Collected: 09/23/15 11:20 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 10:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 10:35	120-82-1	
1,1,1-Trichloroethane	**35.9**	ug/L	10.0	10		09/29/15 10:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 10:35	79-00-5	
Trichloroethene	**243**	ug/L	10.0	10		09/29/15 10:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 10:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 10:35	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		09/29/15 10:35	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 10:35	75-01-4	
Xylene (Total)	ND	ug/L	20.0	10		09/29/15 10:35	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 10:35	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 10:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	10		09/29/15 10:35	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	10		09/29/15 10:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130	10		09/29/15 10:35	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 06:26	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	50-150	1		10/02/15 06:26	17060-07-0	
Toluene-d8 (S)	79	%	50-150	1		10/02/15 06:26	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-2B **Lab ID: 92269380010** Collected: 09/23/15 11:55 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	125	5		09/30/15 16:15	67-64-1	
Benzene	ND	ug/L	5.0	5		09/30/15 16:15	71-43-2	
Bromobenzene	ND	ug/L	5.0	5		09/30/15 16:15	108-86-1	
Bromochloromethane	ND	ug/L	5.0	5		09/30/15 16:15	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	5		09/30/15 16:15	75-27-4	
Bromoform	ND	ug/L	5.0	5		09/30/15 16:15	75-25-2	
Bromomethane	ND	ug/L	10.0	5		09/30/15 16:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	5		09/30/15 16:15	78-93-3	
Carbon tetrachloride	ND	ug/L	5.0	5		09/30/15 16:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	5		09/30/15 16:15	108-90-7	
Chloroethane	ND	ug/L	5.0	5		09/30/15 16:15	75-00-3	
Chloroform	ND	ug/L	5.0	5		09/30/15 16:15	67-66-3	
Chloromethane	ND	ug/L	5.0	5		09/30/15 16:15	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	5		09/30/15 16:15	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	5		09/30/15 16:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	10.0	5		09/30/15 16:15	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	5		09/30/15 16:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	5		09/30/15 16:15	106-93-4	
Dibromomethane	ND	ug/L	5.0	5		09/30/15 16:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	5		09/30/15 16:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	5		09/30/15 16:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	5		09/30/15 16:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	5		09/30/15 16:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	5		09/30/15 16:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	5		09/30/15 16:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	5		09/30/15 16:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	5		09/30/15 16:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	5		09/30/15 16:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	5		09/30/15 16:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	5		09/30/15 16:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	5		09/30/15 16:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	5		09/30/15 16:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	5		09/30/15 16:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	5		09/30/15 16:15	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	5		09/30/15 16:15	108-20-3	
Ethylbenzene	ND	ug/L	5.0	5		09/30/15 16:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	5		09/30/15 16:15	87-68-3	
2-Hexanone	ND	ug/L	25.0	5		09/30/15 16:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	5.0	5		09/30/15 16:15	99-87-6	
Methylene Chloride	ND	ug/L	10.0	5		09/30/15 16:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	5		09/30/15 16:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	5		09/30/15 16:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	5		09/30/15 16:15	91-20-3	
Styrene	ND	ug/L	5.0	5		09/30/15 16:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	5		09/30/15 16:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	5		09/30/15 16:15	79-34-5	
Tetrachloroethene	**435**	ug/L	5.0	5		09/30/15 16:15	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-2B **Lab ID: 92269380010** Collected: 09/23/15 11:55 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	5.0	5		09/30/15 16:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	5		09/30/15 16:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	5		09/30/15 16:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	5		09/30/15 16:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	5		09/30/15 16:15	79-00-5	
Trichloroethene	**124**	ug/L	5.0	5		09/30/15 16:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	5		09/30/15 16:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	5		09/30/15 16:15	96-18-4	
Vinyl acetate	ND	ug/L	10.0	5		09/30/15 16:15	108-05-4	
Vinyl chloride	ND	ug/L	5.0	5		09/30/15 16:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	5		09/30/15 16:15	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	5		09/30/15 16:15	179601-23-1	
o-Xylene	ND	ug/L	5.0	5		09/30/15 16:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	70-130	5		09/30/15 16:15	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	5		09/30/15 16:15	17060-07-0	
Toluene-d8 (S)	95	%	70-130	5		09/30/15 16:15	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 06:47	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	86	%	50-150	1		10/02/15 06:47	17060-07-0	
Toluene-d8 (S)	80	%	50-150	1		10/02/15 06:47	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-3A **Lab ID: 92269380011** Collected: 09/23/15 12:45 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	250	10		09/29/15 11:09	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 11:09	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 11:09	108-86-1	
Bromochloromethane	ND	ug/L	10.0	10		09/29/15 11:09	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 11:09	75-27-4	
Bromoform	ND	ug/L	10.0	10		09/29/15 11:09	75-25-2	
Bromomethane	ND	ug/L	20.0	10		09/29/15 11:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	10		09/29/15 11:09	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 11:09	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		09/29/15 11:09	108-90-7	
Chloroethane	ND	ug/L	10.0	10		09/29/15 11:09	75-00-3	
Chloroform	ND	ug/L	10.0	10		09/29/15 11:09	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 11:09	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 11:09	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 11:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	20.0	10		09/29/15 11:09	96-12-8	
Dibromochloromethane	ND	ug/L	10.0	10		09/29/15 11:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 11:09	106-93-4	
Dibromomethane	ND	ug/L	10.0	10		09/29/15 11:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 11:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 11:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 11:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 11:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	10.0	10		09/29/15 11:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 11:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	10.0	10		09/29/15 11:09	75-35-4	
cis-1,2-Dichloroethene	**420**	ug/L	10.0	10		09/29/15 11:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		09/29/15 11:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 11:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 11:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 11:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 11:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 11:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 11:09	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 11:09	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 11:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 11:09	87-68-3	
2-Hexanone	ND	ug/L	50.0	10		09/29/15 11:09	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 11:09	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 11:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	10		09/29/15 11:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 11:09	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 11:09	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 11:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 11:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		09/29/15 11:09	79-34-5	
Tetrachloroethene	**4180**	ug/L	50.0	50		09/30/15 00:37	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-3A **Lab ID: 92269380011** Collected: 09/23/15 12:45 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 11:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 11:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 11:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/29/15 11:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 11:09	79-00-5	
Trichloroethene	**478**	ug/L	10.0	10		09/29/15 11:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 11:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 11:09	96-18-4	
Vinyl acetate	ND	ug/L	20.0	10		09/29/15 11:09	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 11:09	75-01-4	
Xylene (Total)	ND	ug/L	20.0	10		09/29/15 11:09	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 11:09	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 11:09	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	10		09/29/15 11:09	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	10		09/29/15 11:09	17060-07-0	
Toluene-d8 (S)	100	%	70-130	10		09/29/15 11:09	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 07:07	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	50-150	1		10/02/15 07:07	17060-07-0	
Toluene-d8 (S)	81	%	50-150	1		10/02/15 07:07	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-18B **Lab ID: 92269380012** Collected: 09/23/15 13:50 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/29/15 22:38	67-64-1	M1
Benzene	ND	ug/L	1.0	1		09/29/15 22:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/29/15 22:38	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/29/15 22:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/29/15 22:38	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/29/15 22:38	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/29/15 22:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/29/15 22:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/15 22:38	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/29/15 22:38	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/29/15 22:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/15 22:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/29/15 22:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/15 22:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/15 22:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/29/15 22:38	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/29/15 22:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/15 22:38	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/29/15 22:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/15 22:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/15 22:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/15 22:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/15 22:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/29/15 22:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/15 22:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/29/15 22:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/29/15 22:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/29/15 22:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/15 22:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/15 22:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/15 22:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/15 22:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/15 22:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/15 22:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/29/15 22:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/29/15 22:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/15 22:38	87-68-3	M1
2-Hexanone	ND	ug/L	50.0	1		09/29/15 22:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/15 22:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/29/15 22:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/29/15 22:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/15 22:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/29/15 22:38	91-20-3	
Styrene	ND	ug/L	1.0	1		09/29/15 22:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/15 22:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/29/15 22:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/29/15 22:38	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-18B **Lab ID: 92269380012** Collected: 09/23/15 13:50 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/29/15 22:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/15 22:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/15 22:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/15 22:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/15 22:38	79-00-5	
Trichloroethene	**131**	ug/L	1.0	1		09/29/15 22:38	79-01-6	M1
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/15 22:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/29/15 22:38	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/29/15 22:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/29/15 22:38	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/29/15 22:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/29/15 22:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/29/15 22:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/29/15 22:38	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		09/29/15 22:38	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		09/29/15 22:38	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 07:27	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	50-150	1		10/02/15 07:27	17060-07-0	
Toluene-d8 (S)	78	%	50-150	1		10/02/15 07:27	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-20A **Lab ID: 92269380013** Collected: 09/23/15 14:15 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		09/29/15 06:21	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 06:21	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 06:21	108-86-1	
Bromochloromethane	ND	ug/L	30.0	10		09/29/15 06:21	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 06:21	75-27-4	
Bromoform	ND	ug/L	30.0	10		09/29/15 06:21	75-25-2	
Bromomethane	ND	ug/L	100	10		09/29/15 06:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	10		09/29/15 06:21	78-93-3	
Carbon tetrachloride	**20.8**	ug/L	10.0	10		09/29/15 06:21	56-23-5	
Chlorobenzene	ND	ug/L	30.0	10		09/29/15 06:21	108-90-7	
Chloroethane	ND	ug/L	100	10		09/29/15 06:21	75-00-3	
Chloroform	ND	ug/L	50.0	10		09/29/15 06:21	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 06:21	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 06:21	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 06:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	130	10		09/29/15 06:21	96-12-8	
Dibromochloromethane	ND	ug/L	30.0	10		09/29/15 06:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 06:21	106-93-4	
Dibromomethane	ND	ug/L	100	10		09/29/15 06:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	10		09/29/15 06:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 06:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 06:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 06:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	10		09/29/15 06:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 06:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		09/29/15 06:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		09/29/15 06:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		09/29/15 06:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 06:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 06:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 06:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 06:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 06:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 06:21	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 06:21	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 06:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 06:21	87-68-3	
2-Hexanone	ND	ug/L	500	10		09/29/15 06:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 06:21	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 06:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	10		09/29/15 06:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 06:21	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 06:21	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 06:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		09/29/15 06:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	30.0	10		09/29/15 06:21	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		09/29/15 06:21	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-20A **Lab ID: 92269380013** Collected: 09/23/15 14:15 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 06:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 06:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 06:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/29/15 06:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 06:21	79-00-5	
Trichloroethene	**124000**	ug/L	1000	1000		09/29/15 17:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 06:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 06:21	96-18-4	
Vinyl acetate	ND	ug/L	500	10		09/29/15 06:21	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 06:21	75-01-4	
Xylene (Total)	ND	ug/L	50.0	10		09/29/15 06:21	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 06:21	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 06:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	10		09/29/15 06:21	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	10		09/29/15 06:21	17060-07-0	
Toluene-d8 (S)	90	%	70-130	10		09/29/15 06:21	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 07:48	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	50-150	1		10/02/15 07:48	17060-07-0	
Toluene-d8 (S)	76	%	50-150	1		10/02/15 07:48	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-20B **Lab ID: 92269380014** Collected: 09/23/15 13:45 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	4000	40		09/29/15 22:55	67-64-1	
Benzene	ND	ug/L	40.0	40		09/29/15 22:55	71-43-2	
Bromobenzene	ND	ug/L	40.0	40		09/29/15 22:55	108-86-1	
Bromochloromethane	ND	ug/L	120	40		09/29/15 22:55	74-97-5	
Bromodichloromethane	ND	ug/L	40.0	40		09/29/15 22:55	75-27-4	
Bromoform	ND	ug/L	120	40		09/29/15 22:55	75-25-2	
Bromomethane	ND	ug/L	400	40		09/29/15 22:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	4000	40		09/29/15 22:55	78-93-3	
Carbon tetrachloride	ND	ug/L	40.0	40		09/29/15 22:55	56-23-5	
Chlorobenzene	ND	ug/L	120	40		09/29/15 22:55	108-90-7	
Chloroethane	ND	ug/L	400	40		09/29/15 22:55	75-00-3	
Chloroform	ND	ug/L	200	40		09/29/15 22:55	67-66-3	
Chloromethane	ND	ug/L	40.0	40		09/29/15 22:55	74-87-3	
2-Chlorotoluene	ND	ug/L	40.0	40		09/29/15 22:55	95-49-8	
4-Chlorotoluene	ND	ug/L	40.0	40		09/29/15 22:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	520	40		09/29/15 22:55	96-12-8	
Dibromochloromethane	ND	ug/L	120	40		09/29/15 22:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	40.0	40		09/29/15 22:55	106-93-4	
Dibromomethane	ND	ug/L	400	40		09/29/15 22:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	40		09/29/15 22:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	40.0	40		09/29/15 22:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	40.0	40		09/29/15 22:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	40.0	40		09/29/15 22:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	40		09/29/15 22:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	40.0	40		09/29/15 22:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	200	40		09/29/15 22:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	40		09/29/15 22:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	40		09/29/15 22:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	40.0	40		09/29/15 22:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	40.0	40		09/29/15 22:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	40.0	40		09/29/15 22:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	40.0	40		09/29/15 22:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	40.0	40		09/29/15 22:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	40.0	40		09/29/15 22:55	10061-02-6	
Diisopropyl ether	ND	ug/L	40.0	40		09/29/15 22:55	108-20-3	
Ethylbenzene	ND	ug/L	40.0	40		09/29/15 22:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	40.0	40		09/29/15 22:55	87-68-3	
2-Hexanone	ND	ug/L	2000	40		09/29/15 22:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	40.0	40		09/29/15 22:55	99-87-6	
Methylene Chloride	ND	ug/L	80.0	40		09/29/15 22:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	4000	40		09/29/15 22:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	40.0	40		09/29/15 22:55	1634-04-4	
Naphthalene	ND	ug/L	40.0	40		09/29/15 22:55	91-20-3	
Styrene	ND	ug/L	40.0	40		09/29/15 22:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	40		09/29/15 22:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	120	40		09/29/15 22:55	79-34-5	
Tetrachloroethene	ND	ug/L	40.0	40		09/29/15 22:55	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-20B **Lab ID: 92269380014** Collected: 09/23/15 13:45 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	40.0	40		09/29/15 22:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	40.0	40		09/29/15 22:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	40.0	40		09/29/15 22:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	40.0	40		09/29/15 22:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	40.0	40		09/29/15 22:55	79-00-5	
Trichloroethene	**3830**	ug/L	40.0	40		09/29/15 22:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	40.0	40		09/29/15 22:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	40.0	40		09/29/15 22:55	96-18-4	
Vinyl acetate	ND	ug/L	2000	40		09/29/15 22:55	108-05-4	
Vinyl chloride	ND	ug/L	40.0	40		09/29/15 22:55	75-01-4	
Xylene (Total)	ND	ug/L	200	40		09/29/15 22:55	1330-20-7	
m&p-Xylene	ND	ug/L	80.0	40		09/29/15 22:55	179601-23-1	
o-Xylene	ND	ug/L	40.0	40		09/29/15 22:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	40		09/29/15 22:55	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	40		09/29/15 22:55	17060-07-0	
Toluene-d8 (S)	102	%	70-130	40		09/29/15 22:55	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 08:08	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	50-150	1		10/02/15 08:08	17060-07-0	
Toluene-d8 (S)	78	%	50-150	1		10/02/15 08:08	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: FIELD BLANK 9/23 **Lab ID: 92269380015** Collected: 09/23/15 09:35 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/28/15 14:20	67-64-1	
Benzene	ND	ug/L	1.0	1		09/28/15 14:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/15 14:20	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/28/15 14:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/15 14:20	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/28/15 14:20	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/28/15 14:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/28/15 14:20	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/15 14:20	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/28/15 14:20	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/28/15 14:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/28/15 14:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/28/15 14:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/15 14:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/15 14:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/28/15 14:20	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/28/15 14:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/15 14:20	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/28/15 14:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/28/15 14:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/15 14:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/15 14:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/15 14:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/28/15 14:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/15 14:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/28/15 14:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/28/15 14:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/28/15 14:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/28/15 14:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/15 14:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/28/15 14:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/15 14:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/28/15 14:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/28/15 14:20	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/28/15 14:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/28/15 14:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/28/15 14:20	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/28/15 14:20	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/15 14:20	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/28/15 14:20	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/28/15 14:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/15 14:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/28/15 14:20	91-20-3	
Styrene	ND	ug/L	1.0	1		09/28/15 14:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/28/15 14:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/28/15 14:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/28/15 14:20	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: FIELD BLANK 9/23 **Lab ID: 92269380015** Collected: 09/23/15 09:35 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/28/15 14:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/15 14:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/15 14:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/15 14:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/15 14:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/15 14:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/15 14:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/28/15 14:20	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/28/15 14:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/28/15 14:20	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/28/15 14:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/15 14:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/15 14:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	110	%	70-130	1		09/28/15 14:20	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		09/28/15 14:20	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		09/28/15 14:20	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: EQUIPMENT BLANK 9/23 **Lab ID: 92269380016** Collected: 09/23/15 08:40 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/28/15 14:36	67-64-1	
Benzene	ND	ug/L	1.0	1		09/28/15 14:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/15 14:36	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/28/15 14:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/15 14:36	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/28/15 14:36	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/28/15 14:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/28/15 14:36	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/15 14:36	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/28/15 14:36	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/28/15 14:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/28/15 14:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/28/15 14:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/15 14:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/15 14:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/28/15 14:36	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/28/15 14:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/15 14:36	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/28/15 14:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/28/15 14:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/15 14:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/15 14:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/15 14:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/28/15 14:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/15 14:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/28/15 14:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/28/15 14:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/28/15 14:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/28/15 14:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/15 14:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/28/15 14:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/15 14:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/28/15 14:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/28/15 14:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/28/15 14:36	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/28/15 14:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/28/15 14:36	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/28/15 14:36	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/15 14:36	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/28/15 14:36	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/28/15 14:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/15 14:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/28/15 14:36	91-20-3	
Styrene	ND	ug/L	1.0	1		09/28/15 14:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/28/15 14:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/28/15 14:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/28/15 14:36	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: EQUIPMENT BLANK 9/23 **Lab ID: 92269380016** Collected: 09/23/15 08:40 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/28/15 14:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/15 14:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/15 14:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/15 14:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/15 14:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/15 14:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/15 14:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/28/15 14:36	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/28/15 14:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/28/15 14:36	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/28/15 14:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/15 14:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/15 14:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	112	%	70-130	1		09/28/15 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		09/28/15 14:36	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		09/28/15 14:36	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: TRIP BLANK **Lab ID: 92269380017** Collected: 09/23/15 00:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/28/15 18:59	67-64-1	
Benzene	ND	ug/L	1.0	1		09/28/15 18:59	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/15 18:59	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/28/15 18:59	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/15 18:59	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/28/15 18:59	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/28/15 18:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/28/15 18:59	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/15 18:59	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/28/15 18:59	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/28/15 18:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/28/15 18:59	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/28/15 18:59	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/15 18:59	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/15 18:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/28/15 18:59	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/28/15 18:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/15 18:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/28/15 18:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/28/15 18:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/15 18:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/15 18:59	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/15 18:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/28/15 18:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/15 18:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/28/15 18:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/28/15 18:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/28/15 18:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/28/15 18:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/15 18:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/28/15 18:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/15 18:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/28/15 18:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/28/15 18:59	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/28/15 18:59	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/28/15 18:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/28/15 18:59	87-68-3	L3
2-Hexanone	ND	ug/L	50.0	1		09/28/15 18:59	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/15 18:59	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/28/15 18:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/28/15 18:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/15 18:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/28/15 18:59	91-20-3	
Styrene	ND	ug/L	1.0	1		09/28/15 18:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/28/15 18:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/28/15 18:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/28/15 18:59	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: TRIP BLANK **Lab ID: 92269380017** Collected: 09/23/15 00:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/28/15 18:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/15 18:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/15 18:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/15 18:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/15 18:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/15 18:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/15 18:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/28/15 18:59	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/28/15 18:59	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/28/15 18:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/28/15 18:59	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/15 18:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/15 18:59	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		09/28/15 18:59	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		09/28/15 18:59	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		09/28/15 18:59	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: TRIP BLANK 2 **Lab ID: 92269380018** Collected: 09/23/15 00:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/28/15 18:25	67-64-1	
Benzene	ND	ug/L	1.0	1		09/28/15 18:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/28/15 18:25	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/28/15 18:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/28/15 18:25	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/28/15 18:25	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/28/15 18:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/28/15 18:25	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/28/15 18:25	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/28/15 18:25	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/28/15 18:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/28/15 18:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/28/15 18:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/28/15 18:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/28/15 18:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/28/15 18:25	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/28/15 18:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/28/15 18:25	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/28/15 18:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/28/15 18:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/28/15 18:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/28/15 18:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/28/15 18:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/28/15 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/28/15 18:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/28/15 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/28/15 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/28/15 18:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/28/15 18:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/28/15 18:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/28/15 18:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/28/15 18:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/28/15 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/28/15 18:25	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/28/15 18:25	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/28/15 18:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/28/15 18:25	87-68-3	L3
2-Hexanone	ND	ug/L	50.0	1		09/28/15 18:25	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/28/15 18:25	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/28/15 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/28/15 18:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/28/15 18:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/28/15 18:25	91-20-3	
Styrene	ND	ug/L	1.0	1		09/28/15 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/28/15 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/28/15 18:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/28/15 18:25	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: TRIP BLANK 2 **Lab ID: 92269380018** Collected: 09/23/15 00:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/28/15 18:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/28/15 18:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/28/15 18:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/28/15 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/28/15 18:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/28/15 18:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/28/15 18:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/28/15 18:25	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/28/15 18:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/28/15 18:25	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/28/15 18:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/28/15 18:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/28/15 18:25	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		09/28/15 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		09/28/15 18:25	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		09/28/15 18:25	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: DUPLICATE **Lab ID: 92269380019** Collected: 09/23/15 16:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		09/29/15 06:54	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 06:54	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 06:54	108-86-1	
Bromochloromethane	ND	ug/L	30.0	10		09/29/15 06:54	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 06:54	75-27-4	
Bromoform	ND	ug/L	30.0	10		09/29/15 06:54	75-25-2	
Bromomethane	ND	ug/L	100	10		09/29/15 06:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	10		09/29/15 06:54	78-93-3	
Carbon tetrachloride	**13.2**	ug/L	10.0	10		09/29/15 06:54	56-23-5	
Chlorobenzene	ND	ug/L	30.0	10		09/29/15 06:54	108-90-7	
Chloroethane	ND	ug/L	100	10		09/29/15 06:54	75-00-3	
Chloroform	ND	ug/L	50.0	10		09/29/15 06:54	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 06:54	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 06:54	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 06:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	130	10		09/29/15 06:54	96-12-8	
Dibromochloromethane	ND	ug/L	30.0	10		09/29/15 06:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 06:54	106-93-4	
Dibromomethane	ND	ug/L	100	10		09/29/15 06:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	10		09/29/15 06:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 06:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 06:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 06:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	10		09/29/15 06:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 06:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		09/29/15 06:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	50.0	10		09/29/15 06:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		09/29/15 06:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 06:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 06:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 06:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 06:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 06:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 06:54	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 06:54	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 06:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 06:54	87-68-3	
2-Hexanone	ND	ug/L	500	10		09/29/15 06:54	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 06:54	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 06:54	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	10		09/29/15 06:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 06:54	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 06:54	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 06:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		09/29/15 06:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	30.0	10		09/29/15 06:54	79-34-5	
Tetrachloroethene	**19.9**	ug/L	10.0	10		09/29/15 06:54	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: DUPLICATE **Lab ID: 92269380019** Collected: 09/23/15 16:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 06:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 06:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 06:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/29/15 06:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 06:54	79-00-5	
Trichloroethene	**93900**	ug/L	1000	1000		09/29/15 17:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 06:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 06:54	96-18-4	
Vinyl acetate	ND	ug/L	500	10		09/29/15 06:54	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 06:54	75-01-4	
Xylene (Total)	ND	ug/L	50.0	10		09/29/15 06:54	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 06:54	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 06:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	10		09/29/15 06:54	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	10		09/29/15 06:54	17060-07-0	
Toluene-d8 (S)	88	%	70-130	10		09/29/15 06:54	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 08:28	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	50-150	1		10/02/15 08:28	17060-07-0	
Toluene-d8 (S)	76	%	50-150	1		10/02/15 08:28	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-8A **Lab ID: 92269380020** Collected: 09/22/15 17:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		09/29/15 23:29	67-64-1	
Benzene	ND	ug/L	1.0	1		09/29/15 23:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/29/15 23:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/29/15 23:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/29/15 23:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/29/15 23:29	75-25-2	
Bromomethane	ND	ug/L	2.0	1		09/29/15 23:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/29/15 23:29	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/15 23:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/29/15 23:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/29/15 23:29	75-00-3	
Chloroform	**10.5**	ug/L	1.0	1		09/29/15 23:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/29/15 23:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/15 23:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/15 23:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		09/29/15 23:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/29/15 23:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/15 23:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/29/15 23:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/29/15 23:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/29/15 23:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/29/15 23:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/15 23:29	75-71-8	
1,1-Dichloroethane	**1.6**	ug/L	1.0	1		09/29/15 23:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/15 23:29	107-06-2	
1,1-Dichloroethene	**20.2**	ug/L	1.0	1		09/29/15 23:29	75-35-4	
cis-1,2-Dichloroethene	**44.9**	ug/L	1.0	1		09/29/15 23:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/29/15 23:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/15 23:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/15 23:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/15 23:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/15 23:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/15 23:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/15 23:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/29/15 23:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/29/15 23:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/15 23:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/29/15 23:29	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/15 23:29	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/29/15 23:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/29/15 23:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/15 23:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/29/15 23:29	91-20-3	
Styrene	ND	ug/L	1.0	1		09/29/15 23:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/15 23:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/29/15 23:29	79-34-5	
Tetrachloroethene	**111**	ug/L	1.0	1		09/29/15 23:29	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-8A **Lab ID: 92269380020** Collected: 09/22/15 17:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/29/15 23:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/15 23:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/29/15 23:29	120-82-1	
1,1,1-Trichloroethane	**2.8**	ug/L	1.0	1		09/29/15 23:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/15 23:29	79-00-5	
Trichloroethene	**943**	ug/L	10.0	10		09/30/15 17:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/15 23:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/29/15 23:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		09/29/15 23:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/29/15 23:29	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		09/29/15 23:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/29/15 23:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/29/15 23:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	70-130	1		09/29/15 23:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/29/15 23:29	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		09/29/15 23:29	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1		10/02/15 08:48	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	50-150	1		10/02/15 08:48	17060-07-0	
Toluene-d8 (S)	78	%	50-150	1		10/02/15 08:48	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-8B **Lab ID: 92269380021** Collected: 09/22/15 16:40 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		09/29/15 07:28	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 07:28	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 07:28	108-86-1	
Bromochloromethane	ND	ug/L	30.0	10		09/29/15 07:28	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 07:28	75-27-4	
Bromoform	ND	ug/L	30.0	10		09/29/15 07:28	75-25-2	
Bromomethane	ND	ug/L	100	10		09/29/15 07:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	10		09/29/15 07:28	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 07:28	56-23-5	
Chlorobenzene	ND	ug/L	30.0	10		09/29/15 07:28	108-90-7	
Chloroethane	ND	ug/L	100	10		09/29/15 07:28	75-00-3	
Chloroform	ND	ug/L	50.0	10		09/29/15 07:28	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 07:28	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 07:28	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 07:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	130	10		09/29/15 07:28	96-12-8	
Dibromochloromethane	ND	ug/L	30.0	10		09/29/15 07:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 07:28	106-93-4	
Dibromomethane	ND	ug/L	100	10		09/29/15 07:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	10		09/29/15 07:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 07:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 07:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 07:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	10		09/29/15 07:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 07:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		09/29/15 07:28	75-35-4	
cis-1,2-Dichloroethene	**63.1**	ug/L	50.0	10		09/29/15 07:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		09/29/15 07:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 07:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 07:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 07:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 07:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 07:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 07:28	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 07:28	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 07:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 07:28	87-68-3	
2-Hexanone	ND	ug/L	500	10		09/29/15 07:28	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 07:28	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 07:28	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	10		09/29/15 07:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 07:28	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 07:28	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 07:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		09/29/15 07:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	30.0	10		09/29/15 07:28	79-34-5	
Tetrachloroethene	**67.1**	ug/L	10.0	10		09/29/15 07:28	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-8B **Lab ID: 92269380021** Collected: 09/22/15 16:40 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 07:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 07:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 07:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/29/15 07:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 07:28	79-00-5	
Trichloroethene	**1060**	ug/L	10.0	10		09/29/15 07:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 07:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 07:28	96-18-4	
Vinyl acetate	ND	ug/L	500	10		09/29/15 07:28	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 07:28	75-01-4	
Xylene (Total)	ND	ug/L	50.0	10		09/29/15 07:28	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 07:28	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 07:28	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	10		09/29/15 07:28	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	10		09/29/15 07:28	17060-07-0	
Toluene-d8 (S)	96	%	70-130	10		09/29/15 07:28	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**5.4**	ug/L	2.0	1		10/02/15 09:08	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	50-150	1		10/02/15 09:08	17060-07-0	
Toluene-d8 (S)	77	%	50-150	1		10/02/15 09:08	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-13B **Lab ID: 92269380022** Collected: 09/22/15 16:35 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		09/29/15 07:44	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 07:44	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 07:44	108-86-1	
Bromochloromethane	ND	ug/L	30.0	10		09/29/15 07:44	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 07:44	75-27-4	
Bromoform	ND	ug/L	30.0	10		09/29/15 07:44	75-25-2	
Bromomethane	ND	ug/L	100	10		09/29/15 07:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	10		09/29/15 07:44	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 07:44	56-23-5	
Chlorobenzene	ND	ug/L	30.0	10		09/29/15 07:44	108-90-7	
Chloroethane	ND	ug/L	100	10		09/29/15 07:44	75-00-3	
Chloroform	ND	ug/L	50.0	10		09/29/15 07:44	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 07:44	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 07:44	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 07:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	130	10		09/29/15 07:44	96-12-8	
Dibromochloromethane	ND	ug/L	30.0	10		09/29/15 07:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 07:44	106-93-4	
Dibromomethane	ND	ug/L	100	10		09/29/15 07:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	10		09/29/15 07:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 07:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 07:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 07:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	10		09/29/15 07:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 07:44	107-06-2	
1,1-Dichloroethene	**65.6**	ug/L	50.0	10		09/29/15 07:44	75-35-4	
cis-1,2-Dichloroethene	**92.3**	ug/L	50.0	10		09/29/15 07:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		09/29/15 07:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 07:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 07:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 07:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 07:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 07:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 07:44	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 07:44	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 07:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 07:44	87-68-3	
2-Hexanone	ND	ug/L	500	10		09/29/15 07:44	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 07:44	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 07:44	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	10		09/29/15 07:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 07:44	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 07:44	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 07:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		09/29/15 07:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	30.0	10		09/29/15 07:44	79-34-5	
Tetrachloroethene	**598**	ug/L	10.0	10		09/29/15 07:44	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-13B **Lab ID: 92269380022** Collected: 09/22/15 16:35 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 07:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 07:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 07:44	120-82-1	
1,1,1-Trichloroethane	**16.4**	ug/L	10.0	10		09/29/15 07:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 07:44	79-00-5	
Trichloroethene	**2930**	ug/L	40.0	40		09/29/15 17:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 07:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 07:44	96-18-4	
Vinyl acetate	ND	ug/L	500	10		09/29/15 07:44	108-05-4	
Vinyl chloride	ND	ug/L	10.0	10		09/29/15 07:44	75-01-4	
Xylene (Total)	ND	ug/L	50.0	10		09/29/15 07:44	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 07:44	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 07:44	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	70-130	10		09/29/15 07:44	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	10		09/29/15 07:44	17060-07-0	
Toluene-d8 (S)	95	%	70-130	10		09/29/15 07:44	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**18.3**	ug/L	2.0	1		10/02/15 09:28	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	50-150	1		10/02/15 09:28	17060-07-0	
Toluene-d8 (S)	78	%	50-150	1		10/02/15 09:28	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-9A **Lab ID: 92269380023** Collected: 09/22/15 16:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		09/29/15 23:46	67-64-1	
Benzene	**9.9**	ug/L	1.0	1		09/29/15 23:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/29/15 23:46	108-86-1	
Bromochloromethane	ND	ug/L	3.0	1		09/29/15 23:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/29/15 23:46	75-27-4	
Bromoform	ND	ug/L	3.0	1		09/29/15 23:46	75-25-2	
Bromomethane	ND	ug/L	10.0	1		09/29/15 23:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	1		09/29/15 23:46	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/29/15 23:46	56-23-5	
Chlorobenzene	ND	ug/L	3.0	1		09/29/15 23:46	108-90-7	
Chloroethane	ND	ug/L	10.0	1		09/29/15 23:46	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/29/15 23:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/29/15 23:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/29/15 23:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/29/15 23:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	1		09/29/15 23:46	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	1		09/29/15 23:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/29/15 23:46	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		09/29/15 23:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/29/15 23:46	95-50-1	
1,3-Dichlorobenzene	**1.2**	ug/L	1.0	1		09/29/15 23:46	541-73-1	
1,4-Dichlorobenzene	**9.3**	ug/L	1.0	1		09/29/15 23:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/29/15 23:46	75-71-8	
1,1-Dichloroethane	**10.7**	ug/L	5.0	1		09/29/15 23:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/29/15 23:46	107-06-2	
1,1-Dichloroethene	**8.6**	ug/L	5.0	1		09/29/15 23:46	75-35-4	
cis-1,2-Dichloroethene	**710**	ug/L	50.0	10		09/30/15 10:36	156-59-2	
trans-1,2-Dichloroethene	**12.2**	ug/L	5.0	1		09/29/15 23:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/29/15 23:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/29/15 23:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/29/15 23:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/29/15 23:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/15 23:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/29/15 23:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/29/15 23:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/29/15 23:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/29/15 23:46	87-68-3	
2-Hexanone	ND	ug/L	50.0	1		09/29/15 23:46	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/29/15 23:46	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/29/15 23:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	1		09/29/15 23:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/29/15 23:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/29/15 23:46	91-20-3	
Styrene	ND	ug/L	1.0	1		09/29/15 23:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/29/15 23:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	1		09/29/15 23:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/29/15 23:46	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-9A **Lab ID: 92269380023** Collected: 09/22/15 16:00 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/29/15 23:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/29/15 23:46	87-61-6	
1,2,4-Trichlorobenzene	**2.5**	ug/L	1.0	1		09/29/15 23:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/29/15 23:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/29/15 23:46	79-00-5	
Trichloroethene	**32.1**	ug/L	1.0	1		09/29/15 23:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/29/15 23:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/29/15 23:46	96-18-4	
Vinyl acetate	ND	ug/L	50.0	1		09/29/15 23:46	108-05-4	
Vinyl chloride	**155**	ug/L	1.0	1		09/29/15 23:46	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		09/29/15 23:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/29/15 23:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/29/15 23:46	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		09/29/15 23:46	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		09/29/15 23:46	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		09/29/15 23:46	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**164**	ug/L	10.0	5		10/02/15 12:22	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	50-150	1		10/02/15 09:49	17060-07-0	
Toluene-d8 (S)	77	%	50-150	1		10/02/15 09:49	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-9B **Lab ID: 92269380024** Collected: 09/22/15 15:30 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		09/29/15 08:17	67-64-1	
Benzene	ND	ug/L	10.0	10		09/29/15 08:17	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 08:17	108-86-1	
Bromochloromethane	ND	ug/L	30.0	10		09/29/15 08:17	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 08:17	75-27-4	
Bromoform	ND	ug/L	30.0	10		09/29/15 08:17	75-25-2	
Bromomethane	ND	ug/L	100	10		09/29/15 08:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	10		09/29/15 08:17	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 08:17	56-23-5	
Chlorobenzene	ND	ug/L	30.0	10		09/29/15 08:17	108-90-7	
Chloroethane	ND	ug/L	100	10		09/29/15 08:17	75-00-3	
Chloroform	ND	ug/L	50.0	10		09/29/15 08:17	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 08:17	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:17	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	130	10		09/29/15 08:17	96-12-8	
Dibromochloromethane	ND	ug/L	30.0	10		09/29/15 08:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 08:17	106-93-4	
Dibromomethane	ND	ug/L	100	10		09/29/15 08:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	10		09/29/15 08:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:17	541-73-1	
1,4-Dichlorobenzene	**11.1**	ug/L	10.0	10		09/29/15 08:17	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 08:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	10		09/29/15 08:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		09/29/15 08:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		09/29/15 08:17	75-35-4	
cis-1,2-Dichloroethene	**829**	ug/L	50.0	10		09/29/15 08:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		09/29/15 08:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:17	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 08:17	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 08:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 08:17	87-68-3	
2-Hexanone	ND	ug/L	500	10		09/29/15 08:17	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 08:17	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 08:17	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	10		09/29/15 08:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 08:17	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 08:17	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 08:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		09/29/15 08:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	30.0	10		09/29/15 08:17	79-34-5	
Tetrachloroethene	**284**	ug/L	10.0	10		09/29/15 08:17	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-9B **Lab ID: 92269380024** Collected: 09/22/15 15:30 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 08:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:17	87-61-6	
1,2,4-Trichlorobenzene	**18.7**	ug/L	10.0	10		09/29/15 08:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		09/29/15 08:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		09/29/15 08:17	79-00-5	
Trichloroethene	**800**	ug/L	10.0	10		09/29/15 08:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 08:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 08:17	96-18-4	
Vinyl acetate	ND	ug/L	500	10		09/29/15 08:17	108-05-4	
Vinyl chloride	**30.4**	ug/L	10.0	10		09/29/15 08:17	75-01-4	
Xylene (Total)	ND	ug/L	50.0	10		09/29/15 08:17	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 08:17	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 08:17	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	111	%	70-130	10		09/29/15 08:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	10		09/29/15 08:17	17060-07-0	
Toluene-d8 (S)	96	%	70-130	10		09/29/15 08:17	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**38.5**	ug/L	2.0	1		10/02/15 10:09	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	88	%	50-150	1		10/02/15 10:09	17060-07-0	
Toluene-d8 (S)	78	%	50-150	1		10/02/15 10:09	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-9C **Lab ID: 92269380025** Collected: 09/22/15 15:25 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	10		09/29/15 08:34	67-64-1	
Benzene	**11.2**	ug/L	10.0	10		09/29/15 08:34	71-43-2	
Bromobenzene	ND	ug/L	10.0	10		09/29/15 08:34	108-86-1	
Bromochloromethane	ND	ug/L	30.0	10		09/29/15 08:34	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		09/29/15 08:34	75-27-4	
Bromoform	ND	ug/L	30.0	10		09/29/15 08:34	75-25-2	
Bromomethane	ND	ug/L	100	10		09/29/15 08:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	10		09/29/15 08:34	78-93-3	
Carbon tetrachloride	ND	ug/L	10.0	10		09/29/15 08:34	56-23-5	
Chlorobenzene	ND	ug/L	30.0	10		09/29/15 08:34	108-90-7	
Chloroethane	ND	ug/L	100	10		09/29/15 08:34	75-00-3	
Chloroform	ND	ug/L	50.0	10		09/29/15 08:34	67-66-3	
Chloromethane	ND	ug/L	10.0	10		09/29/15 08:34	74-87-3	
2-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:34	95-49-8	
4-Chlorotoluene	ND	ug/L	10.0	10		09/29/15 08:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	130	10		09/29/15 08:34	96-12-8	
Dibromochloromethane	ND	ug/L	30.0	10		09/29/15 08:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	10		09/29/15 08:34	106-93-4	
Dibromomethane	ND	ug/L	100	10		09/29/15 08:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	50.0	10		09/29/15 08:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	10.0	10		09/29/15 08:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	50.0	10		09/29/15 08:34	75-34-3	
1,2-Dichloroethane	**22.6**	ug/L	10.0	10		09/29/15 08:34	107-06-2	
1,1-Dichloroethene	**1030**	ug/L	50.0	10		09/29/15 08:34	75-35-4	
cis-1,2-Dichloroethene	**796**	ug/L	50.0	10		09/29/15 08:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		09/29/15 08:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	10.0	10		09/29/15 08:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		09/29/15 08:34	10061-02-6	
Diisopropyl ether	ND	ug/L	10.0	10		09/29/15 08:34	108-20-3	
Ethylbenzene	ND	ug/L	10.0	10		09/29/15 08:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	10		09/29/15 08:34	87-68-3	
2-Hexanone	ND	ug/L	500	10		09/29/15 08:34	591-78-6	
p-Isopropyltoluene	ND	ug/L	10.0	10		09/29/15 08:34	99-87-6	
Methylene Chloride	ND	ug/L	20.0	10		09/29/15 08:34	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	10		09/29/15 08:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		09/29/15 08:34	1634-04-4	
Naphthalene	ND	ug/L	10.0	10		09/29/15 08:34	91-20-3	
Styrene	ND	ug/L	10.0	10		09/29/15 08:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	50.0	10		09/29/15 08:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	30.0	10		09/29/15 08:34	79-34-5	
Tetrachloroethene	**8440**	ug/L	250	250		09/29/15 17:57	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: PMW-9C **Lab ID: 92269380025** Collected: 09/22/15 15:25 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	10.0	10		09/29/15 08:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	10.0	10		09/29/15 08:34	87-61-6	
1,2,4-Trichlorobenzene	**19.3**	ug/L	10.0	10		09/29/15 08:34	120-82-1	
1,1,1-Trichloroethane	**45.0**	ug/L	10.0	10		09/29/15 08:34	71-55-6	
1,1,2-Trichloroethane	**20.6**	ug/L	10.0	10		09/29/15 08:34	79-00-5	
Trichloroethene	**33900**	ug/L	250	250		09/29/15 17:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	10		09/29/15 08:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	10.0	10		09/29/15 08:34	96-18-4	
Vinyl acetate	ND	ug/L	500	10		09/29/15 08:34	108-05-4	
Vinyl chloride	**30.3**	ug/L	10.0	10		09/29/15 08:34	75-01-4	
Xylene (Total)	ND	ug/L	50.0	10		09/29/15 08:34	1330-20-7	
m&p-Xylene	ND	ug/L	20.0	10		09/29/15 08:34	179601-23-1	
o-Xylene	ND	ug/L	10.0	10		09/29/15 08:34	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	10		09/29/15 08:34	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	10		09/29/15 08:34	17060-07-0	
Toluene-d8 (S)	86	%	70-130	10		09/29/15 08:34	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.							
1,4-Dioxane (p-Dioxane)	**150**	ug/L	5.0	2.5		10/03/15 13:20	123-91-1	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%	50-150	1		10/02/15 16:25	17060-07-0	
Toluene-d8 (S)	79	%	50-150	1		10/02/15 16:25	2037-26-5	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: TAP **Lab ID: 92269380026** Collected: 09/23/15 14:45 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		09/30/15 18:14	67-64-1	
Benzene	ND	ug/L	1.0	1		09/30/15 18:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/30/15 18:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/30/15 18:14	74-97-5	
Bromodichloromethane	**23.9**	ug/L	1.0	1		09/30/15 18:14	75-27-4	
Bromoform	**17.4**	ug/L	1.0	1		09/30/15 18:14	75-25-2	
Bromomethane	ND	ug/L	2.0	1		09/30/15 18:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/30/15 18:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		09/30/15 18:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/30/15 18:14	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/30/15 18:14	75-00-3	
Chloroform	**11.7**	ug/L	1.0	1		09/30/15 18:14	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/30/15 18:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/30/15 18:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/30/15 18:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		09/30/15 18:14	96-12-8	
Dibromochloromethane	**35.4**	ug/L	1.0	1		09/30/15 18:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/30/15 18:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/30/15 18:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/30/15 18:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/30/15 18:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/30/15 18:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/30/15 18:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/30/15 18:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/30/15 18:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/30/15 18:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/30/15 18:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/30/15 18:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/30/15 18:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/30/15 18:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/30/15 18:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/30/15 18:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/30/15 18:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/30/15 18:14	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		09/30/15 18:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		09/30/15 18:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/30/15 18:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/30/15 18:14	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/30/15 18:14	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		09/30/15 18:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/30/15 18:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/30/15 18:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/30/15 18:14	91-20-3	
Styrene	ND	ug/L	1.0	1		09/30/15 18:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/30/15 18:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/30/15 18:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/30/15 18:14	127-18-4	

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ANALYTICAL RESULTS

Project: TREX PROP 03130430
Pace Project No.: 92269380

Sample: TAP **Lab ID: 92269380026** Collected: 09/23/15 14:45 Received: 09/25/15 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	ND	ug/L	1.0	1		09/30/15 18:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/30/15 18:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/30/15 18:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/30/15 18:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/30/15 18:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/30/15 18:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/30/15 18:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/30/15 18:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		09/30/15 18:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		09/30/15 18:14	75-01-4	
Xylene (Total)	ND	ug/L	2.0	1		09/30/15 18:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/30/15 18:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/30/15 18:14	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		09/30/15 18:14	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		09/30/15 18:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		09/30/15 18:14	2037-26-5	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33560 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92269380017, 92269380018

METHOD BLANK: 1568401 | Matrix: Water
Associated Lab Samples: 92269380017, 92269380018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane-d4 (S)	%	91	70-130	09/28/15 18:08	
4-Bromofluorobenzene (S)	%	102	70-130	09/28/15 18:08	
Toluene-d8 (S)	%	101	70-130	09/28/15 18:08	

LABORATORY CONTROL SAMPLE: 1568402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1568403

Parameter	Units	92269399016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				87	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1568404

Parameter	Units	92269399005 Result	Dup Result	RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	91	92	1	
4-Bromofluorobenzene (S)	%	101	100	1	
Toluene-d8 (S)	%	101	103	1	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33572 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92269380015, 92269380016

METHOD BLANK: 1568682 | Matrix: Water
Associated Lab Samples: 92269380015, 92269380016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane-d4 (S)	%	102	70-130	09/28/15 14:03	
4-Bromofluorobenzene (S)	%	110	70-130	09/28/15 14:03	
Toluene-d8 (S)	%	101	70-130	09/28/15 14:03	

LABORATORY CONTROL SAMPLE: 1568683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			110	70-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1568684 1568685

Parameter	Units	92268841010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane-d4 (S)	%						94	94	70-130		
4-Bromofluorobenzene (S)	%						106	105	70-130		
Toluene-d8 (S)	%						95	96	70-130		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1568686 1568687

Parameter	Units	92268976010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane-d4 (S)	%						92	94	70-130		
4-Bromofluorobenzene (S)	%						105	103	70-130		
Toluene-d8 (S)	%						97	98	70-130		

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33578 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92269380001, 92269380002, 92269380003, 92269380004, 92269380005, 92269380006, 92269380007, 92269380009, 92269380011

METHOD BLANK: 1569042 | Matrix: Water
Associated Lab Samples: 92269380001, 92269380002, 92269380003, 92269380004, 92269380005, 92269380006, 92269380007, 92269380009, 92269380011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/29/15 05:11	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/29/15 05:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/29/15 05:11	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/29/15 05:11	
1,1-Dichloroethane	ug/L	ND	1.0	09/29/15 05:11	
1,1-Dichloroethene	ug/L	ND	1.0	09/29/15 05:11	
1,1-Dichloropropene	ug/L	ND	1.0	09/29/15 05:11	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/29/15 05:11	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/29/15 05:11	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/29/15 05:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	09/29/15 05:11	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/29/15 05:11	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/29/15 05:11	
1,2-Dichloroethane	ug/L	ND	1.0	09/29/15 05:11	
1,2-Dichloropropane	ug/L	ND	1.0	09/29/15 05:11	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/29/15 05:11	
1,3-Dichloropropane	ug/L	ND	1.0	09/29/15 05:11	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/29/15 05:11	
2,2-Dichloropropane	ug/L	ND	1.0	09/29/15 05:11	
2-Butanone (MEK)	ug/L	ND	5.0	09/29/15 05:11	
2-Chlorotoluene	ug/L	ND	1.0	09/29/15 05:11	
2-Hexanone	ug/L	ND	5.0	09/29/15 05:11	
4-Chlorotoluene	ug/L	ND	1.0	09/29/15 05:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/29/15 05:11	
Acetone	ug/L	ND	25.0	09/29/15 05:11	
Benzene	ug/L	ND	1.0	09/29/15 05:11	
Bromobenzene	ug/L	ND	1.0	09/29/15 05:11	
Bromochloromethane	ug/L	ND	1.0	09/29/15 05:11	
Bromodichloromethane	ug/L	ND	1.0	09/29/15 05:11	
Bromoform	ug/L	ND	1.0	09/29/15 05:11	
Bromomethane	ug/L	ND	2.0	09/29/15 05:11	
Carbon tetrachloride	ug/L	ND	1.0	09/29/15 05:11	
Chlorobenzene	ug/L	ND	1.0	09/29/15 05:11	
Chloroethane	ug/L	ND	1.0	09/29/15 05:11	
Chloroform	ug/L	ND	1.0	09/29/15 05:11	
Chloromethane	ug/L	ND	1.0	09/29/15 05:11	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/29/15 05:11	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/29/15 05:11	
Dibromochloromethane	ug/L	ND	1.0	09/29/15 05:11	
Dibromomethane	ug/L	ND	1.0	09/29/15 05:11	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

METHOD BLANK: 1569042 Matrix: Water

Associated Lab Samples: 92269380001, 92269380002, 92269380003, 92269380004, 92269380005, 92269380006, 92269380007, 92269380009, 92269380011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	09/29/15 05:11	
Diisopropyl ether	ug/L	ND	1.0	09/29/15 05:11	
Ethylbenzene	ug/L	ND	1.0	09/29/15 05:11	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/29/15 05:11	
m&p-Xylene	ug/L	ND	2.0	09/29/15 05:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/29/15 05:11	
Methylene Chloride	ug/L	ND	2.0	09/29/15 05:11	
Naphthalene	ug/L	ND	1.0	09/29/15 05:11	
o-Xylene	ug/L	ND	1.0	09/29/15 05:11	
p-Isopropyltoluene	ug/L	ND	1.0	09/29/15 05:11	
Styrene	ug/L	ND	1.0	09/29/15 05:11	
Tetrachloroethene	ug/L	ND	1.0	09/29/15 05:11	
Toluene	ug/L	ND	1.0	09/29/15 05:11	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/29/15 05:11	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/29/15 05:11	
Trichloroethene	ug/L	ND	1.0	09/29/15 05:11	
Trichlorofluoromethane	ug/L	ND	1.0	09/29/15 05:11	
Vinyl acetate	ug/L	ND	2.0	09/29/15 05:11	
Vinyl chloride	ug/L	ND	1.0	09/29/15 05:11	
Xylene (Total)	ug/L	ND	2.0	09/29/15 05:11	
1,2-Dichloroethane-d4 (S)	%	93	70-130	09/29/15 05:11	
4-Bromofluorobenzene (S)	%	103	70-130	09/29/15 05:11	
Toluene-d8 (S)	%	101	70-130	09/29/15 05:11	

LABORATORY CONTROL SAMPLE: 1569043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.4	95	70-130	
1,1,1-Trichloroethane	ug/L	50	45.9	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.2	88	70-130	
1,1,2-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1-Dichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethene	ug/L	50	52.2	104	70-132	
1,1-Dichloropropene	ug/L	50	52.2	104	70-130	
1,2,3-Trichlorobenzene	ug/L	50	48.0	96	70-135	
1,2,3-Trichloropropane	ug/L	50	44.1	88	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.9	94	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.9	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	104	70-130	
1,2-Dichlorobenzene	ug/L	50	49.3	99	70-130	
1,2-Dichloroethane	ug/L	50	43.8	88	70-130	
1,2-Dichloropropane	ug/L	50	50.3	101	70-130	
1,3-Dichlorobenzene	ug/L	50	51.1	102	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

LABORATORY CONTROL SAMPLE: 1569043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichloropropane	ug/L	50	50.8	102	70-130	
1,4-Dichlorobenzene	ug/L	50	47.8	96	70-130	
2,2-Dichloropropane	ug/L	50	44.5	89	58-145	
2-Butanone (MEK)	ug/L	100	93.6	94	70-145	
2-Chlorotoluene	ug/L	50	53.4	107	70-130	
2-Hexanone	ug/L	100	85.2	85	70-144	
4-Chlorotoluene	ug/L	50	48.9	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.1	95	70-140	
Acetone	ug/L	100	96.1	96	50-175	
Benzene	ug/L	50	55.3	111	70-130	
Bromobenzene	ug/L	50	50.4	101	70-130	
Bromochloromethane	ug/L	50	55.9	112	70-130	
Bromodichloromethane	ug/L	50	48.2	96	70-130	
Bromoform	ug/L	50	36.6	73	70-130	
Bromomethane	ug/L	50	32.0	64	54-130	
Carbon tetrachloride	ug/L	50	43.0	86	70-132	
Chlorobenzene	ug/L	50	49.7	99	70-130	
Chloroethane	ug/L	50	43.5	87	64-134	
Chloroform	ug/L	50	51.4	103	70-130	
Chloromethane	ug/L	50	38.6	77	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.4	93	70-130	
Dibromochloromethane	ug/L	50	40.8	82	70-130	
Dibromomethane	ug/L	50	54.0	108	70-131	
Dichlorodifluoromethane	ug/L	50	48.4	97	56-130	
Diisopropyl ether	ug/L	50	49.1	98	70-130	
Ethylbenzene	ug/L	50	49.3	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	58.2	116	70-130	
m&p-Xylene	ug/L	100	97.5	97	70-130	
Methyl-tert-butyl ether	ug/L	50	54.8	110	70-130	
Methylene Chloride	ug/L	50	44.9	90	63-130	
Naphthalene	ug/L	50	54.7	109	70-138	
o-Xylene	ug/L	50	49.2	98	70-130	
p-Isopropyltoluene	ug/L	50	46.0	92	70-130	
Styrene	ug/L	50	46.3	93	70-130	
Tetrachloroethene	ug/L	50	49.7	99	70-130	
Toluene	ug/L	50	51.5	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.2	106	70-130	
trans-1,3-Dichloropropene	ug/L	50	44.0	88	70-132	
Trichloroethene	ug/L	50	46.0	92	70-130	
Trichlorofluoromethane	ug/L	50	48.6	97	62-133	
Vinyl acetate	ug/L	100	92.2	92	66-157	
Vinyl chloride	ug/L	50	52.8	106	50-150	
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

MATRIX SPIKE SAMPLE: 1569044

Parameter	Units	92269399001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5000	5240	105	70-130	
1,1,1-Trichloroethane	ug/L	ND	5000	6070	121	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5200	104	70-130	
1,1,2-Trichloroethane	ug/L	ND	5000	5600	112	70-130	
1,1-Dichloroethane	ug/L	ND	5000	5990	120	70-130	
1,1-Dichloroethene	ug/L	ND	5000	7180	144	70-166	
1,1-Dichloropropene	ug/L	ND	5000	6800	136	70-130	M1
1,2,3-Trichlorobenzene	ug/L	ND	5000	5390	108	70-130	
1,2,3-Trichloropropane	ug/L	ND	5000	5160	103	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	5000	5470	109	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	5000	4690	94	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	5000	5830	117	70-130	
1,2-Dichlorobenzene	ug/L	ND	5000	5800	116	70-130	
1,2-Dichloroethane	ug/L	6.5	5000	5180	104	70-130	
1,2-Dichloropropane	ug/L	ND	5000	6620	132	70-130	M1
1,3-Dichlorobenzene	ug/L	ND	5000	5980	120	70-130	
1,3-Dichloropropane	ug/L	ND	5000	5790	116	70-130	
1,4-Dichlorobenzene	ug/L	ND	5000	5860	117	70-130	
2,2-Dichloropropane	ug/L	ND	5000	6240	125	70-130	
2-Butanone (MEK)	ug/L	1110	10000	12300	112	70-130	
2-Chlorotoluene	ug/L	ND	5000	6230	125	70-130	
2-Hexanone	ug/L	455	10000	10300	99	70-130	
4-Chlorotoluene	ug/L	ND	5000	5960	119	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	307	10000	10600	103	70-130	
Acetone	ug/L	388	10000	10300	100	70-130	
Benzene	ug/L	6830	5000	13700	138	70-148	
Bromobenzene	ug/L	ND	5000	5990	120	70-130	
Bromochloromethane	ug/L	ND	5000	6400	128	70-130	
Bromodichloromethane	ug/L	ND	5000	5800	116	70-130	
Bromoform	ug/L	ND	5000	4210	84	70-130	
Bromomethane	ug/L	ND	5000	5470	109	70-130	
Carbon tetrachloride	ug/L	ND	5000	5940	119	70-130	
Chlorobenzene	ug/L	ND	5000	5670	113	70-146	
Chloroethane	ug/L	ND	5000	6910	138	70-130	M1
Chloroform	ug/L	30.0	5000	6450	128	70-130	
Chloromethane	ug/L	137	5000	6020	118	70-130	
cis-1,2-Dichloroethene	ug/L	ND	5000	6380	128	70-130	
cis-1,3-Dichloropropene	ug/L	ND	5000	5500	110	70-130	
Dibromochloromethane	ug/L	ND	5000	4700	94	70-130	
Dibromomethane	ug/L	ND	5000	6600	132	70-130	M1
Dichlorodifluoromethane	ug/L	ND	5000	6320	126	70-130	
Diisopropyl ether	ug/L	27.7	5000	5750	114	70-130	
Ethylbenzene	ug/L	3520	5000	9210	114	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	5000	7290	146	70-130	M1
m&p-Xylene	ug/L	10100	10000	22500	124	70-130	
Methyl-tert-butyl ether	ug/L	172	5000	6150	119	70-130	
Methylene Chloride	ug/L	ND	5000	6260	125	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

MATRIX SPIKE SAMPLE: 1569044

Parameter	Units	92269399001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	837	5000	6630	116	70-130	
o-Xylene	ug/L	5410	5000	10900	110	70-130	
p-Isopropyltoluene	ug/L	53.9	5000	5740	114	70-130	
Styrene	ug/L	39.1	5000	5470	109	70-130	
Tetrachloroethene	ug/L	ND	5000	5900	118	70-130	
Toluene	ug/L	40500	5000	45000	88	70-155	
trans-1,2-Dichloroethene	ug/L	ND	5000	6610	132	70-130	M1
trans-1,3-Dichloropropene	ug/L	ND	5000	5100	102	70-130	
Trichloroethene	ug/L	5.5	5000	5620	112	69-151	
Trichlorofluoromethane	ug/L	ND	5000	7770	155	70-130	M1
Vinyl acetate	ug/L	ND	10000	11400	114	70-130	
Vinyl chloride	ug/L	ND	5000	7290	146	70-130	M1
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1569453

Parameter	Units	92269380004 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	37.6	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	103	185	57	D6
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

SAMPLE DUPLICATE: 1569453

Parameter	Units	92269380004 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	38.7	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	8330	8900	7	
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	12000	11700	2	
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	93	100	166	
4-Bromofluorobenzene (S)	%	100	104	165	
Toluene-d8 (S)	%	98	116	169	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33583 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92269380013, 92269380019, 92269380021, 92269380022, 92269380024, 92269380025

METHOD BLANK: 1569118 Matrix: Water
Associated Lab Samples: 92269380013, 92269380019, 92269380021, 92269380022, 92269380024, 92269380025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/29/15 00:49	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/29/15 00:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/29/15 00:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/29/15 00:49	
1,1-Dichloroethane	ug/L	ND	1.0	09/29/15 00:49	
1,1-Dichloroethene	ug/L	ND	1.0	09/29/15 00:49	
1,1-Dichloropropene	ug/L	ND	1.0	09/29/15 00:49	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/29/15 00:49	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/29/15 00:49	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/29/15 00:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	09/29/15 00:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/29/15 00:49	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/29/15 00:49	
1,2-Dichloroethane	ug/L	ND	1.0	09/29/15 00:49	
1,2-Dichloropropane	ug/L	ND	1.0	09/29/15 00:49	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/29/15 00:49	
1,3-Dichloropropane	ug/L	ND	1.0	09/29/15 00:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/29/15 00:49	
2,2-Dichloropropane	ug/L	ND	1.0	09/29/15 00:49	
2-Butanone (MEK)	ug/L	ND	5.0	09/29/15 00:49	
2-Chlorotoluene	ug/L	ND	1.0	09/29/15 00:49	
2-Hexanone	ug/L	ND	5.0	09/29/15 00:49	
4-Chlorotoluene	ug/L	ND	1.0	09/29/15 00:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/29/15 00:49	
Acetone	ug/L	ND	25.0	09/29/15 00:49	
Benzene	ug/L	ND	1.0	09/29/15 00:49	
Bromobenzene	ug/L	ND	1.0	09/29/15 00:49	
Bromochloromethane	ug/L	ND	1.0	09/29/15 00:49	
Bromodichloromethane	ug/L	ND	1.0	09/29/15 00:49	
Bromoform	ug/L	ND	1.0	09/29/15 00:49	
Bromomethane	ug/L	ND	2.0	09/29/15 00:49	
Carbon tetrachloride	ug/L	ND	1.0	09/29/15 00:49	
Chlorobenzene	ug/L	ND	1.0	09/29/15 00:49	
Chloroethane	ug/L	ND	1.0	09/29/15 00:49	
Chloroform	ug/L	ND	1.0	09/29/15 00:49	
Chloromethane	ug/L	ND	1.0	09/29/15 00:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/29/15 00:49	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/29/15 00:49	
Dibromochloromethane	ug/L	ND	1.0	09/29/15 00:49	
Dibromomethane	ug/L	ND	1.0	09/29/15 00:49	
Dichlorodifluoromethane	ug/L	ND	1.0	09/29/15 00:49	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

METHOD BLANK: 1569118 Matrix: Water
Associated Lab Samples: 92269380013, 92269380019, 92269380021, 92269380022, 92269380024, 92269380025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	09/29/15 00:49	
Ethylbenzene	ug/L	ND	1.0	09/29/15 00:49	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/29/15 00:49	
m&p-Xylene	ug/L	ND	2.0	09/29/15 00:49	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/29/15 00:49	
Methylene Chloride	ug/L	ND	2.0	09/29/15 00:49	
Naphthalene	ug/L	ND	1.0	09/29/15 00:49	
o-Xylene	ug/L	ND	1.0	09/29/15 00:49	
p-Isopropyltoluene	ug/L	ND	1.0	09/29/15 00:49	
Styrene	ug/L	ND	1.0	09/29/15 00:49	
Tetrachloroethene	ug/L	ND	1.0	09/29/15 00:49	
Toluene	ug/L	ND	1.0	09/29/15 00:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/29/15 00:49	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/29/15 00:49	
Trichloroethene	ug/L	ND	1.0	09/29/15 00:49	
Trichlorofluoromethane	ug/L	ND	1.0	09/29/15 00:49	
Vinyl acetate	ug/L	ND	2.0	09/29/15 00:49	
Vinyl chloride	ug/L	ND	1.0	09/29/15 00:49	
Xylene (Total)	ug/L	ND	2.0	09/29/15 00:49	
1,2-Dichloroethane-d4 (S)	%	100	70-130	09/29/15 00:49	
4-Bromofluorobenzene (S)	%	106	70-130	09/29/15 00:49	
Toluene-d8 (S)	%	100	70-130	09/29/15 00:49	

LABORATORY CONTROL SAMPLE: 1569119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.5	105	70-130	
1,1,1-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	70-130	
1,1,2-Trichloroethane	ug/L	50	49.4	99	70-130	
1,1-Dichloroethane	ug/L	50	52.4	105	70-130	
1,1-Dichloroethene	ug/L	50	48.7	97	70-132	
1,1-Dichloropropene	ug/L	50	58.5	117	70-130	
1,2,3-Trichlorobenzene	ug/L	50	54.3	109	70-135	
1,2,3-Trichloropropane	ug/L	50	48.3	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	53.7	107	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	53.8	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.7	109	70-130	
1,2-Dichlorobenzene	ug/L	50	52.0	104	70-130	
1,2-Dichloroethane	ug/L	50	44.9	90	70-130	
1,2-Dichloropropane	ug/L	50	54.3	109	70-130	
1,3-Dichlorobenzene	ug/L	50	52.3	105	70-130	
1,3-Dichloropropane	ug/L	50	52.1	104	70-130	
1,4-Dichlorobenzene	ug/L	50	49.4	99	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

LABORATORY CONTROL SAMPLE: 1569119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	51.9	104	58-145	
2-Butanone (MEK)	ug/L	100	120	120	70-145	
2-Chlorotoluene	ug/L	50	52.5	105	70-130	
2-Hexanone	ug/L	100	110	110	70-144	
4-Chlorotoluene	ug/L	50	51.0	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	118	118	70-140	
Acetone	ug/L	100	107	107	50-175	
Benzene	ug/L	50	54.9	110	70-130	
Bromobenzene	ug/L	50	49.2	98	70-130	
Bromochloromethane	ug/L	50	51.5	103	70-130	
Bromodichloromethane	ug/L	50	50.7	101	70-130	
Bromoform	ug/L	50	41.7	83	70-130	
Bromomethane	ug/L	50	42.3	85	54-130	
Carbon tetrachloride	ug/L	50	50.4	101	70-132	
Chlorobenzene	ug/L	50	49.2	98	70-130	
Chloroethane	ug/L	50	37.4	75	64-134	
Chloroform	ug/L	50	51.5	103	70-130	
Chloromethane	ug/L	50	45.5	91	64-130	
cis-1,2-Dichloroethene	ug/L	50	55.3	111	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	70-130	
Dibromochloromethane	ug/L	50	47.3	95	70-130	
Dibromomethane	ug/L	50	49.7	99	70-131	
Dichlorodifluoromethane	ug/L	50	49.0	98	56-130	
Diisopropyl ether	ug/L	50	59.0	118	70-130	
Ethylbenzene	ug/L	50	49.8	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	61.6	123	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	59.5	119	70-130	
Methylene Chloride	ug/L	50	59.9	120	63-130	
Naphthalene	ug/L	50	55.6	111	70-138	
o-Xylene	ug/L	50	50.9	102	70-130	
p-Isopropyltoluene	ug/L	50	49.2	98	70-130	
Styrene	ug/L	50	50.0	100	70-130	
Tetrachloroethene	ug/L	50	51.7	103	70-130	
Toluene	ug/L	50	49.5	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	55.5	111	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	70-132	
Trichloroethene	ug/L	50	51.0	102	70-130	
Trichlorofluoromethane	ug/L	50	39.9	80	62-133	
Vinyl acetate	ug/L	100	108	108	66-157	
Vinyl chloride	ug/L	50	51.0	102	50-150	
Xylene (Total)	ug/L	150	155	103	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33586 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92269380008, 92269380010

METHOD BLANK: 1569520 | Matrix: Water
Associated Lab Samples: 92269380008, 92269380010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1-Dichloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,1-Dichloroethene	ug/L	ND	1.0	09/30/15 11:27	
1,1-Dichloropropene	ug/L	ND	1.0	09/30/15 11:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/30/15 11:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	09/30/15 11:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/30/15 11:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
1,2-Dichloroethane	ug/L	ND	1.0	09/30/15 11:27	
1,2-Dichloropropane	ug/L	ND	1.0	09/30/15 11:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
1,3-Dichloropropane	ug/L	ND	1.0	09/30/15 11:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
2,2-Dichloropropane	ug/L	ND	1.0	09/30/15 11:27	
2-Butanone (MEK)	ug/L	ND	5.0	09/30/15 11:27	
2-Chlorotoluene	ug/L	ND	1.0	09/30/15 11:27	
2-Hexanone	ug/L	ND	5.0	09/30/15 11:27	
4-Chlorotoluene	ug/L	ND	1.0	09/30/15 11:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/30/15 11:27	
Acetone	ug/L	ND	25.0	09/30/15 11:27	
Benzene	ug/L	ND	1.0	09/30/15 11:27	
Bromobenzene	ug/L	ND	1.0	09/30/15 11:27	
Bromochloromethane	ug/L	ND	1.0	09/30/15 11:27	
Bromodichloromethane	ug/L	ND	1.0	09/30/15 11:27	
Bromoform	ug/L	ND	1.0	09/30/15 11:27	
Bromomethane	ug/L	ND	2.0	09/30/15 11:27	
Carbon tetrachloride	ug/L	ND	1.0	09/30/15 11:27	
Chlorobenzene	ug/L	ND	1.0	09/30/15 11:27	
Chloroethane	ug/L	ND	1.0	09/30/15 11:27	
Chloroform	ug/L	ND	1.0	09/30/15 11:27	
Chloromethane	ug/L	ND	1.0	09/30/15 11:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/30/15 11:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/30/15 11:27	
Dibromochloromethane	ug/L	ND	1.0	09/30/15 11:27	
Dibromomethane	ug/L	ND	1.0	09/30/15 11:27	
Dichlorodifluoromethane	ug/L	ND	1.0	09/30/15 11:27	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

METHOD BLANK: 1569520 Matrix: Water
Associated Lab Samples: 92269380008, 92269380010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	09/30/15 11:27	
Ethylbenzene	ug/L	ND	1.0	09/30/15 11:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/30/15 11:27	
m&p-Xylene	ug/L	ND	2.0	09/30/15 11:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/30/15 11:27	
Methylene Chloride	ug/L	ND	2.0	09/30/15 11:27	
Naphthalene	ug/L	ND	1.0	09/30/15 11:27	
o-Xylene	ug/L	ND	1.0	09/30/15 11:27	
p-Isopropyltoluene	ug/L	ND	1.0	09/30/15 11:27	
Styrene	ug/L	ND	1.0	09/30/15 11:27	
Tetrachloroethene	ug/L	ND	1.0	09/30/15 11:27	
Toluene	ug/L	ND	1.0	09/30/15 11:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/30/15 11:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/30/15 11:27	
Trichloroethene	ug/L	ND	1.0	09/30/15 11:27	
Trichlorofluoromethane	ug/L	ND	1.0	09/30/15 11:27	
Vinyl acetate	ug/L	ND	2.0	09/30/15 11:27	
Vinyl chloride	ug/L	ND	1.0	09/30/15 11:27	
Xylene (Total)	ug/L	ND	2.0	09/30/15 11:27	
1,2-Dichloroethane-d4 (S)	%	100	70-130	09/30/15 11:27	
4-Bromofluorobenzene (S)	%	100	70-130	09/30/15 11:27	
Toluene-d8 (S)	%	96	70-130	09/30/15 11:27	

LABORATORY CONTROL SAMPLE: 1569521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	70-130	
1,1,1-Trichloroethane	ug/L	50	54.8	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.7	111	70-130	
1,1,2-Trichloroethane	ug/L	50	42.6	85	70-130	
1,1-Dichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethene	ug/L	50	50.2	100	70-132	
1,1-Dichloropropene	ug/L	50	52.9	106	70-130	
1,2,3-Trichlorobenzene	ug/L	50	45.3	91	70-135	
1,2,3-Trichloropropane	ug/L	50	49.7	99	70-130	
1,2,4-Trichlorobenzene	ug/L	50	50.2	100	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.4	93	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	70-130	
1,2-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,2-Dichloroethane	ug/L	50	47.5	95	70-130	
1,2-Dichloropropane	ug/L	50	50.7	101	70-130	
1,3-Dichlorobenzene	ug/L	50	52.6	105	70-130	
1,3-Dichloropropane	ug/L	50	51.3	103	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

LABORATORY CONTROL SAMPLE: 1569521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	58.8	118	58-145	
2-Butanone (MEK)	ug/L	100	107	107	70-145	
2-Chlorotoluene	ug/L	50	49.2	98	70-130	
2-Hexanone	ug/L	100	103	103	70-144	
4-Chlorotoluene	ug/L	50	53.4	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	86.7	87	70-140	
Acetone	ug/L	100	106	106	50-175	
Benzene	ug/L	50	52.4	105	70-130	
Bromobenzene	ug/L	50	52.7	105	70-130	
Bromochloromethane	ug/L	50	55.2	110	70-130	
Bromodichloromethane	ug/L	50	53.0	106	70-130	
Bromoform	ug/L	50	48.3	97	70-130	
Bromomethane	ug/L	50	45.2	90	54-130	
Carbon tetrachloride	ug/L	50	57.1	114	70-132	
Chlorobenzene	ug/L	50	51.5	103	70-130	
Chloroethane	ug/L	50	45.1	90	64-134	
Chloroform	ug/L	50	52.3	105	70-130	
Chloromethane	ug/L	50	52.8	106	64-130	
cis-1,2-Dichloroethene	ug/L	50	53.9	108	70-131	
cis-1,3-Dichloropropene	ug/L	50	45.6	91	70-130	
Dibromochloromethane	ug/L	50	50.0	100	70-130	
Dibromomethane	ug/L	50	53.5	107	70-131	
Dichlorodifluoromethane	ug/L	50	46.1	92	56-130	
Diisopropyl ether	ug/L	50	59.3	119	70-130	
Ethylbenzene	ug/L	50	52.9	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	63.9	128	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	53.7	107	70-130	
Methylene Chloride	ug/L	50	51.6	103	63-130	
Naphthalene	ug/L	50	45.8	92	70-138	
o-Xylene	ug/L	50	51.5	103	70-130	
p-Isopropyltoluene	ug/L	50	55.3	111	70-130	
Styrene	ug/L	50	52.8	106	70-130	
Tetrachloroethene	ug/L	50	48.5	97	70-130	
Toluene	ug/L	50	43.6	87	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.7	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.3	97	70-132	
Trichloroethene	ug/L	50	48.1	96	70-130	
Trichlorofluoromethane	ug/L	50	50.5	101	62-133	
Vinyl acetate	ug/L	100	118	118	66-157	
Vinyl chloride	ug/L	50	52.1	104	50-150	
Xylene (Total)	ug/L	150	158	106	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			107	70-130	
Toluene-d8 (S)	%			84	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

MATRIX SPIKE SAMPLE: 1569522

Parameter	Units	92268976017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.8	104	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.7	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.4	107	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.4	112	70-130	
1,1-Dichloroethene	ug/L	ND	20	21.7	109	70-166	
1,1-Dichloropropene	ug/L	ND	20	23.0	115	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	16.8	84	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	19.6	98	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.9	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.1	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.2	106	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	ND	20	19.5	98	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.9	109	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	22.5	112	70-130	
1,3-Dichloropropane	ug/L	ND	20	21.3	107	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.3	107	70-130	
2,2-Dichloropropane	ug/L	ND	20	19.1	96	70-130	
2-Butanone (MEK)	ug/L	25.7	40	71.8	115	70-130	
2-Chlorotoluene	ug/L	ND	20	23.2	116	70-130	
2-Hexanone	ug/L	ND	40	43.2	108	70-130	
4-Chlorotoluene	ug/L	ND	20	22.8	114	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	45.2	113	70-130	
Acetone	ug/L	40.9	40	87.5	117	70-130	
Benzene	ug/L	3.2	20	25.3	110	70-148	
Bromobenzene	ug/L	ND	20	22.8	114	70-130	
Bromochloromethane	ug/L	ND	20	22.6	113	70-130	
Bromodichloromethane	ug/L	ND	20	22.8	114	70-130	
Bromoform	ug/L	ND	20	18.7	93	70-130	
Bromomethane	ug/L	ND	20	21.8	109	70-130	
Carbon tetrachloride	ug/L	ND	20	23.0	115	70-130	
Chlorobenzene	ug/L	ND	20	21.2	106	70-146	
Chloroethane	ug/L	ND	20	19.3	97	70-130	
Chloroform	ug/L	ND	20	21.4	107	70-130	
Chloromethane	ug/L	ND	20	22.8	114	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.5	113	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	21.1	105	70-130	
Dibromochloromethane	ug/L	ND	20	19.6	98	70-130	
Dibromomethane	ug/L	ND	20	21.8	109	70-130	
Dichlorodifluoromethane	ug/L	ND	20	21.5	108	70-130	
Diisopropyl ether	ug/L	ND	20	23.1	115	70-130	
Ethylbenzene	ug/L	ND	20	22.2	110	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	25.7	128	70-130	
m&p-Xylene	ug/L	ND	40	44.2	110	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.8	109	70-130	
Methylene Chloride	ug/L	ND	20	18.3	91	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

MATRIX SPIKE SAMPLE: 1569522

Parameter	Units	92268976017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	17.6	88	70-130	
o-Xylene	ug/L	ND	20	21.3	107	70-130	
p-Isopropyltoluene	ug/L	ND	20	22.7	114	70-130	
Styrene	ug/L	ND	20	21.0	105	70-130	
Tetrachloroethene	ug/L	ND	20	19.9	100	70-130	
Toluene	ug/L	ND	20	22.1	108	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	22.0	110	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	20.8	104	70-130	
Trichloroethene	ug/L	ND	20	20.0	100	69-151	
Trichlorofluoromethane	ug/L	ND	20	22.5	113	70-130	
Vinyl acetate	ug/L	ND	40	47.8	119	70-130	
Vinyl chloride	ug/L	ND	20	22.8	114	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1569523

Parameter	Units	92269399008 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

SAMPLE DUPLICATE: 1569523

Parameter	Units	92269399008 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	1.5	1.4	6	
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	99	100	1	
4-Bromofluorobenzene (S)	%	99	100	1	
Toluene-d8 (S)	%	99	99	1	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33589 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92269380012, 92269380014, 92269380020, 92269380023

METHOD BLANK: 1569746 Matrix: Water
Associated Lab Samples: 92269380012, 92269380014, 92269380020, 92269380023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/29/15 20:56	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/29/15 20:56	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/29/15 20:56	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/29/15 20:56	
1,1-Dichloroethane	ug/L	ND	1.0	09/29/15 20:56	
1,1-Dichloroethene	ug/L	ND	1.0	09/29/15 20:56	
1,1-Dichloropropene	ug/L	ND	1.0	09/29/15 20:56	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/29/15 20:56	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/29/15 20:56	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/29/15 20:56	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	09/29/15 20:56	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/29/15 20:56	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/29/15 20:56	
1,2-Dichloroethane	ug/L	ND	1.0	09/29/15 20:56	
1,2-Dichloropropane	ug/L	ND	1.0	09/29/15 20:56	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/29/15 20:56	
1,3-Dichloropropane	ug/L	ND	1.0	09/29/15 20:56	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/29/15 20:56	
2,2-Dichloropropane	ug/L	ND	1.0	09/29/15 20:56	
2-Butanone (MEK)	ug/L	ND	5.0	09/29/15 20:56	
2-Chlorotoluene	ug/L	ND	1.0	09/29/15 20:56	
2-Hexanone	ug/L	ND	5.0	09/29/15 20:56	
4-Chlorotoluene	ug/L	ND	1.0	09/29/15 20:56	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/29/15 20:56	
Acetone	ug/L	ND	25.0	09/29/15 20:56	
Benzene	ug/L	ND	1.0	09/29/15 20:56	
Bromobenzene	ug/L	ND	1.0	09/29/15 20:56	
Bromochloromethane	ug/L	ND	1.0	09/29/15 20:56	
Bromodichloromethane	ug/L	ND	1.0	09/29/15 20:56	
Bromoform	ug/L	ND	1.0	09/29/15 20:56	
Bromomethane	ug/L	ND	2.0	09/29/15 20:56	
Carbon tetrachloride	ug/L	ND	1.0	09/29/15 20:56	
Chlorobenzene	ug/L	ND	1.0	09/29/15 20:56	
Chloroethane	ug/L	ND	1.0	09/29/15 20:56	
Chloroform	ug/L	ND	1.0	09/29/15 20:56	
Chloromethane	ug/L	ND	1.0	09/29/15 20:56	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/29/15 20:56	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/29/15 20:56	
Dibromochloromethane	ug/L	ND	1.0	09/29/15 20:56	
Dibromomethane	ug/L	ND	1.0	09/29/15 20:56	
Dichlorodifluoromethane	ug/L	ND	1.0	09/29/15 20:56	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

METHOD BLANK: 1569746 Matrix: Water
Associated Lab Samples: 92269380012, 92269380014, 92269380020, 92269380023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	09/29/15 20:56	
Ethylbenzene	ug/L	ND	1.0	09/29/15 20:56	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/29/15 20:56	
m&p-Xylene	ug/L	ND	2.0	09/29/15 20:56	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/29/15 20:56	
Methylene Chloride	ug/L	ND	2.0	09/29/15 20:56	
Naphthalene	ug/L	ND	1.0	09/29/15 20:56	
o-Xylene	ug/L	ND	1.0	09/29/15 20:56	
p-Isopropyltoluene	ug/L	ND	1.0	09/29/15 20:56	
Styrene	ug/L	ND	1.0	09/29/15 20:56	
Tetrachloroethene	ug/L	ND	1.0	09/29/15 20:56	
Toluene	ug/L	ND	1.0	09/29/15 20:56	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/29/15 20:56	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/29/15 20:56	
Trichloroethene	ug/L	ND	1.0	09/29/15 20:56	
Trichlorofluoromethane	ug/L	ND	1.0	09/29/15 20:56	
Vinyl acetate	ug/L	ND	2.0	09/29/15 20:56	
Vinyl chloride	ug/L	ND	1.0	09/29/15 20:56	
Xylene (Total)	ug/L	ND	2.0	09/29/15 20:56	
1,2-Dichloroethane-d4 (S)	%	97	70-130	09/29/15 20:56	
4-Bromofluorobenzene (S)	%	94	70-130	09/29/15 20:56	
Toluene-d8 (S)	%	94	70-130	09/29/15 20:56	

LABORATORY CONTROL SAMPLE: 1569747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.3	91	70-130	
1,1,1-Trichloroethane	ug/L	50	48.6	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.4	103	70-130	
1,1,2-Trichloroethane	ug/L	50	48.3	97	70-130	
1,1-Dichloroethane	ug/L	50	47.9	96	70-130	
1,1-Dichloroethene	ug/L	50	43.9	88	70-132	
1,1-Dichloropropene	ug/L	50	47.8	96	70-130	
1,2,3-Trichlorobenzene	ug/L	50	43.3	87	70-135	
1,2,3-Trichloropropane	ug/L	50	45.7	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.5	93	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.4	93	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	70-130	
1,2-Dichlorobenzene	ug/L	50	48.0	96	70-130	
1,2-Dichloroethane	ug/L	50	43.0	86	70-130	
1,2-Dichloropropane	ug/L	50	49.8	100	70-130	
1,3-Dichlorobenzene	ug/L	50	48.8	98	70-130	
1,3-Dichloropropane	ug/L	50	48.4	97	70-130	
1,4-Dichlorobenzene	ug/L	50	48.9	98	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

LABORATORY CONTROL SAMPLE: 1569747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	50.2	100	58-145	
2-Butanone (MEK)	ug/L	100	99.0	99	70-145	
2-Chlorotoluene	ug/L	50	50.2	100	70-130	
2-Hexanone	ug/L	100	106	106	70-144	
4-Chlorotoluene	ug/L	50	48.8	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	70-140	
Acetone	ug/L	100	100	100	50-175	
Benzene	ug/L	50	48.9	98	70-130	
Bromobenzene	ug/L	50	49.1	98	70-130	
Bromochloromethane	ug/L	50	51.3	103	70-130	
Bromodichloromethane	ug/L	50	51.6	103	70-130	
Bromoform	ug/L	50	43.8	88	70-130	
Bromomethane	ug/L	50	40.3	81	54-130	
Carbon tetrachloride	ug/L	50	49.0	98	70-132	
Chlorobenzene	ug/L	50	47.5	95	70-130	
Chloroethane	ug/L	50	37.9	76	64-134	
Chloroform	ug/L	50	46.9	94	70-130	
Chloromethane	ug/L	50	41.4	83	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	70-130	
Dibromochloromethane	ug/L	50	45.7	91	70-130	
Dibromomethane	ug/L	50	50.9	102	70-131	
Dichlorodifluoromethane	ug/L	50	39.1	78	56-130	
Diisopropyl ether	ug/L	50	53.1	106	70-130	
Ethylbenzene	ug/L	50	48.4	97	70-130	
Hexachloro-1,3-butadiene	ug/L	50	46.7	93	70-130	
m&p-Xylene	ug/L	100	95.0	95	70-130	
Methyl-tert-butyl ether	ug/L	50	51.0	102	70-130	
Methylene Chloride	ug/L	50	48.1	96	63-130	
Naphthalene	ug/L	50	43.7	87	70-138	
o-Xylene	ug/L	50	46.6	93	70-130	
p-Isopropyltoluene	ug/L	50	49.6	99	70-130	
Styrene	ug/L	50	48.6	97	70-130	
Tetrachloroethene	ug/L	50	44.0	88	70-130	
Toluene	ug/L	50	47.6	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.1	92	70-130	
trans-1,3-Dichloropropene	ug/L	50	53.7	107	70-132	
Trichloroethene	ug/L	50	43.8	88	70-130	
Trichlorofluoromethane	ug/L	50	43.6	87	62-133	
Vinyl acetate	ug/L	100	106	106	66-157	
Vinyl chloride	ug/L	50	45.2	90	50-150	
Xylene (Total)	ug/L	150	142	94	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

MATRIX SPIKE SAMPLE: 1569748

Parameter	Units	92269380012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.8	99	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	25.0	125	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.9	105	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.7	98	70-130	
1,1-Dichloroethane	ug/L	ND	20	24.1	121	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.8	119	70-166	
1,1-Dichloropropene	ug/L	ND	20	24.5	122	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	16.5	83	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	20.0	100	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.8	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	16.5	82	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.1	105	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	20.2	101	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.3	90	70-130	
1,2-Dichloropropane	ug/L	ND	20	19.8	99	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	20.9	104	70-130	
1,3-Dichloropropane	ug/L	ND	20	20.2	101	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.2	101	70-130	
2,2-Dichloropropane	ug/L	ND	20	23.3	117	70-130	
2-Butanone (MEK)	ug/L	ND	40	44.7	112	70-130	
2-Chlorotoluene	ug/L	ND	20	22.2	111	70-130	
2-Hexanone	ug/L	ND	40	39.9	100	70-130	
4-Chlorotoluene	ug/L	ND	20	20.8	104	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	39.8	99	70-130	
Acetone	ug/L	ND	40	56.0	133	70-130	M1
Benzene	ug/L	ND	20	23.0	115	70-148	
Bromobenzene	ug/L	ND	20	21.0	105	70-130	
Bromochloromethane	ug/L	ND	20	24.1	121	70-130	
Bromodichloromethane	ug/L	ND	20	20.0	100	70-130	
Bromoform	ug/L	ND	20	17.3	87	70-130	
Bromomethane	ug/L	ND	20	20.2	101	70-130	
Carbon tetrachloride	ug/L	ND	20	25.5	128	70-130	
Chlorobenzene	ug/L	ND	20	21.5	107	70-146	
Chloroethane	ug/L	ND	20	21.1	106	70-130	
Chloroform	ug/L	ND	20	23.6	118	70-130	
Chloromethane	ug/L	ND	20	25.3	127	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	26.6	123	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.7	98	70-130	
Dibromochloromethane	ug/L	ND	20	18.0	90	70-130	
Dibromomethane	ug/L	ND	20	20.9	105	70-130	
Dichlorodifluoromethane	ug/L	ND	20	24.1	120	70-130	
Diisopropyl ether	ug/L	ND	20	25.0	125	70-130	
Ethylbenzene	ug/L	ND	20	21.7	108	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	27.4	137	70-130	M1
m&p-Xylene	ug/L	ND	40	42.5	106	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	23.4	117	70-130	
Methylene Chloride	ug/L	ND	20	21.6	108	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

MATRIX SPIKE SAMPLE: 1569748

Parameter	Units	92269380012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	16.7	83	70-130	
o-Xylene	ug/L	ND	20	20.7	103	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.8	109	70-130	
Styrene	ug/L	ND	20	20.4	102	70-130	
Tetrachloroethene	ug/L	ND	20	20.5	102	70-130	
Toluene	ug/L	ND	20	20.7	102	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	23.8	119	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.5	97	70-130	
Trichloroethene	ug/L	131	20	137	28	69-151	M1
Trichlorofluoromethane	ug/L	ND	20	24.8	124	70-130	
Vinyl acetate	ug/L	ND	40	44.9	112	70-130	
Vinyl chloride	ug/L	ND	20	24.4	122	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				95	70-130	

SAMPLE DUPLICATE: 1569749

Parameter	Units	92269380014 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

SAMPLE DUPLICATE: 1569749

Parameter	Units	92269380014 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	3830	3880	1	
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	99	98	1	
4-Bromofluorobenzene (S)	%	100	105	5	
Toluene-d8 (S)	%	102	102	0	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33599
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92269380026

METHOD BLANK: 1570634
Matrix: Water
Associated Lab Samples: 92269380026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/30/15 11:44	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/30/15 11:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/30/15 11:44	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/30/15 11:44	
1,1-Dichloroethane	ug/L	ND	1.0	09/30/15 11:44	
1,1-Dichloroethene	ug/L	ND	1.0	09/30/15 11:44	
1,1-Dichloropropene	ug/L	ND	1.0	09/30/15 11:44	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/30/15 11:44	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/30/15 11:44	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/30/15 11:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	09/30/15 11:44	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/30/15 11:44	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/30/15 11:44	
1,2-Dichloroethane	ug/L	ND	1.0	09/30/15 11:44	
1,2-Dichloropropane	ug/L	ND	1.0	09/30/15 11:44	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/30/15 11:44	
1,3-Dichloropropane	ug/L	ND	1.0	09/30/15 11:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/30/15 11:44	
2,2-Dichloropropane	ug/L	ND	1.0	09/30/15 11:44	
2-Butanone (MEK)	ug/L	ND	5.0	09/30/15 11:44	
2-Chlorotoluene	ug/L	ND	1.0	09/30/15 11:44	
2-Hexanone	ug/L	ND	5.0	09/30/15 11:44	
4-Chlorotoluene	ug/L	ND	1.0	09/30/15 11:44	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/30/15 11:44	
Acetone	ug/L	ND	25.0	09/30/15 11:44	
Benzene	ug/L	ND	1.0	09/30/15 11:44	
Bromobenzene	ug/L	ND	1.0	09/30/15 11:44	
Bromochloromethane	ug/L	ND	1.0	09/30/15 11:44	
Bromodichloromethane	ug/L	ND	1.0	09/30/15 11:44	
Bromoform	ug/L	ND	1.0	09/30/15 11:44	
Bromomethane	ug/L	ND	2.0	09/30/15 11:44	
Carbon tetrachloride	ug/L	ND	1.0	09/30/15 11:44	
Chlorobenzene	ug/L	ND	1.0	09/30/15 11:44	
Chloroethane	ug/L	ND	1.0	09/30/15 11:44	
Chloroform	ug/L	ND	1.0	09/30/15 11:44	
Chloromethane	ug/L	ND	1.0	09/30/15 11:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/30/15 11:44	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/30/15 11:44	
Dibromochloromethane	ug/L	ND	1.0	09/30/15 11:44	
Dibromomethane	ug/L	ND	1.0	09/30/15 11:44	
Dichlorodifluoromethane	ug/L	ND	1.0	09/30/15 11:44	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

METHOD BLANK: 1570634 Matrix: Water
Associated Lab Samples: 92269380026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	09/30/15 11:44	
Ethylbenzene	ug/L	ND	1.0	09/30/15 11:44	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/30/15 11:44	
m&p-Xylene	ug/L	ND	2.0	09/30/15 11:44	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/30/15 11:44	
Methylene Chloride	ug/L	ND	2.0	09/30/15 11:44	
Naphthalene	ug/L	ND	1.0	09/30/15 11:44	
o-Xylene	ug/L	ND	1.0	09/30/15 11:44	
p-Isopropyltoluene	ug/L	ND	1.0	09/30/15 11:44	
Styrene	ug/L	ND	1.0	09/30/15 11:44	
Tetrachloroethene	ug/L	ND	1.0	09/30/15 11:44	
Toluene	ug/L	ND	1.0	09/30/15 11:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/30/15 11:44	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/30/15 11:44	
Trichloroethene	ug/L	ND	1.0	09/30/15 11:44	
Trichlorofluoromethane	ug/L	ND	1.0	09/30/15 11:44	
Vinyl acetate	ug/L	ND	2.0	09/30/15 11:44	
Vinyl chloride	ug/L	ND	1.0	09/30/15 11:44	
Xylene (Total)	ug/L	ND	2.0	09/30/15 11:44	
1,2-Dichloroethane-d4 (S)	%	104	70-130	09/30/15 11:44	
4-Bromofluorobenzene (S)	%	101	70-130	09/30/15 11:44	
Toluene-d8 (S)	%	89	70-130	09/30/15 11:44	

LABORATORY CONTROL SAMPLE: 1570635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	44.9	90	70-130	
1,1,1-Trichloroethane	ug/L	50	46.3	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	55.9	112	70-130	
1,1,2-Trichloroethane	ug/L	50	47.1	94	70-130	
1,1-Dichloroethane	ug/L	50	48.5	97	70-130	
1,1-Dichloroethene	ug/L	50	48.9	98	70-132	
1,1-Dichloropropene	ug/L	50	46.4	93	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.0	92	70-135	
1,2,3-Trichloropropane	ug/L	50	51.7	103	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.1	96	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	43.4	87	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	70-130	
1,2-Dichlorobenzene	ug/L	50	48.0	96	70-130	
1,2-Dichloroethane	ug/L	50	43.2	86	70-130	
1,2-Dichloropropane	ug/L	50	45.9	92	70-130	
1,3-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,3-Dichloropropane	ug/L	50	48.6	97	70-130	
1,4-Dichlorobenzene	ug/L	50	48.2	96	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

LABORATORY CONTROL SAMPLE: 1570635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	49.6	99	58-145	
2-Butanone (MEK)	ug/L	100	92.7	93	70-145	
2-Chlorotoluene	ug/L	50	44.5	89	70-130	
2-Hexanone	ug/L	100	98.1	98	70-144	
4-Chlorotoluene	ug/L	50	46.1	92	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	70-140	
Acetone	ug/L	100	115	115	50-175	
Benzene	ug/L	50	46.4	93	70-130	
Bromobenzene	ug/L	50	48.2	96	70-130	
Bromochloromethane	ug/L	50	50.8	102	70-130	
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	50.2	100	70-130	
Bromomethane	ug/L	50	46.4	93	54-130	
Carbon tetrachloride	ug/L	50	46.7	93	70-132	
Chlorobenzene	ug/L	50	47.0	94	70-130	
Chloroethane	ug/L	50	43.1	86	64-134	
Chloroform	ug/L	50	48.9	98	70-130	
Chloromethane	ug/L	50	55.0	110	64-130	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.3	99	70-130	
Dibromochloromethane	ug/L	50	45.7	91	70-130	
Dibromomethane	ug/L	50	49.0	98	70-131	
Dichlorodifluoromethane	ug/L	50	45.2	90	56-130	
Diisopropyl ether	ug/L	50	55.6	111	70-130	
Ethylbenzene	ug/L	50	48.9	98	70-130	
Hexachloro-1,3-butadiene	ug/L	50	60.6	121	70-130	
m&p-Xylene	ug/L	100	93.6	94	70-130	
Methyl-tert-butyl ether	ug/L	50	56.9	114	70-130	
Methylene Chloride	ug/L	50	54.6	109	63-130	
Naphthalene	ug/L	50	46.4	93	70-138	
o-Xylene	ug/L	50	52.7	105	70-130	
p-Isopropyltoluene	ug/L	50	46.7	93	70-130	
Styrene	ug/L	50	54.7	109	70-130	
Tetrachloroethene	ug/L	50	44.8	90	70-130	
Toluene	ug/L	50	46.1	92	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.4	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	54.9	110	70-132	
Trichloroethene	ug/L	50	42.2	84	70-130	
Trichlorofluoromethane	ug/L	50	48.1	96	62-133	
Vinyl acetate	ug/L	100	106	106	66-157	
Vinyl chloride	ug/L	50	51.6	103	50-150	
Xylene (Total)	ug/L	150	146	98	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			112	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

MATRIX SPIKE SAMPLE: 1570636

Parameter	Units	92269746001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.4	102	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	23.0	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.1	106	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.0	100	70-130	
1,1-Dichloroethane	ug/L	ND	20	22.8	114	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.5	112	70-166	
1,1-Dichloropropene	ug/L	ND	20	22.7	113	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.0	90	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	20.4	102	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	19.1	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	19.0	95	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	21.4	107	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	20.3	102	70-130	
1,2-Dichloroethane	ug/L	ND	20	20.1	100	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.7	113	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.2	106	70-130	
1,3-Dichloropropane	ug/L	ND	20	21.4	107	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	21.4	107	70-130	
2,2-Dichloropropane	ug/L	ND	20	22.3	112	70-130	
2-Butanone (MEK)	ug/L	ND	40	44.6	112	70-130	
2-Chlorotoluene	ug/L	ND	20	20.7	103	70-130	
2-Hexanone	ug/L	ND	40	46.8	117	70-130	
4-Chlorotoluene	ug/L	ND	20	20.9	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	47.4	118	70-130	
Acetone	ug/L	ND	40	42.4	106	70-130	
Benzene	ug/L	ND	20	21.9	110	70-148	
Bromobenzene	ug/L	ND	20	21.6	108	70-130	
Bromochloromethane	ug/L	ND	20	24.4	122	70-130	
Bromodichloromethane	ug/L	2.6	20	26.4	119	70-130	
Bromoform	ug/L	3.7	20	21.0	86	70-130	
Bromomethane	ug/L	ND	20	12.1	61	70-130	M1
Carbon tetrachloride	ug/L	ND	20	23.7	119	70-130	
Chlorobenzene	ug/L	ND	20	21.1	106	70-146	
Chloroethane	ug/L	ND	20	19.9	99	70-130	
Chloroform	ug/L	2.2	20	24.9	114	70-130	
Chloromethane	ug/L	ND	20	31.4	157	70-130	M1
cis-1,2-Dichloroethene	ug/L	ND	20	23.7	119	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.2	101	70-130	
Dibromochloromethane	ug/L	4.9	20	25.2	102	70-130	
Dibromomethane	ug/L	ND	20	21.3	106	70-130	
Dichlorodifluoromethane	ug/L	ND	20	22.8	114	70-130	
Diisopropyl ether	ug/L	ND	20	24.7	124	70-130	
Ethylbenzene	ug/L	ND	20	21.8	109	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	28.3	142	70-130	M1
m&p-Xylene	ug/L	ND	40	41.9	105	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.6	108	70-130	
Methylene Chloride	ug/L	ND	20	21.3	107	70-130	

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

MATRIX SPIKE SAMPLE: 1570636

Parameter	Units	92269746001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	17.4	87	70-130	
o-Xylene	ug/L	ND	20	21.3	106	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.6	108	70-130	
Styrene	ug/L	ND	20	.58J	3	70-130	M1
Tetrachloroethene	ug/L	5.8	20	27.4	108	70-130	
Toluene	ug/L	ND	20	22.1	110	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	21.5	108	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	21.1	105	70-130	
Trichloroethene	ug/L	ND	20	20.4	101	69-151	
Trichlorofluoromethane	ug/L	ND	20	23.6	118	70-130	
Vinyl acetate	ug/L	ND	40	9.3	23	70-130	M1
Vinyl chloride	ug/L	ND	20	23.6	118	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1570637

Parameter	Units	92269475001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

SAMPLE DUPLICATE: 1570637

Parameter	Units	92269475001 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	106	108	2	
4-Bromofluorobenzene (S)	%	103	101	2	
Toluene-d8 (S)	%	89	100	11	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33605
QC Batch Method: EPA 8260B Mod.
Analysis Method: EPA 8260B Mod.
Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92269380008

METHOD BLANK: 1571310
Matrix: Water
Associated Lab Samples: 92269380008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	10/01/15 10:50	
1,2-Dichloroethane-d4 (S)	%	106	50-150	10/01/15 10:50	
Toluene-d8 (S)	%	85	50-150	10/01/15 10:50	

LABORATORY CONTROL SAMPLE: 1571311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	20.3	102	71-125	
1,2-Dichloroethane-d4 (S)	%			102	50-150	
Toluene-d8 (S)	%			84	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1571312 1571313

Parameter	Units	92269380008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	ND	20	20	20.1	19.5	100	98	50-150	3	
1,2-Dichloroethane-d4 (S)	%						106	104	50-150		
Toluene-d8 (S)	%						82	82	50-150		

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33613 | Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. | Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92269380001, 92269380002, 92269380003, 92269380004, 92269380005, 92269380009, 92269380010, 92269380011

METHOD BLANK: 1572148 | Matrix: Water
Associated Lab Samples: 92269380001, 92269380002, 92269380003, 92269380004, 92269380005, 92269380009, 92269380010, 92269380011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	10/01/15 23:42	
1,2-Dichloroethane-d4 (S)	%	102	50-150	10/01/15 23:42	
Toluene-d8 (S)	%	81	50-150	10/01/15 23:42	

LABORATORY CONTROL SAMPLE: 1572149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.4	97	71-125	
1,2-Dichloroethane-d4 (S)	%			101	50-150	
Toluene-d8 (S)	%			81	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1572150 1572151

Parameter	Units	92268976010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	801	400	400	1200	1230	100	108	50-150	3	
1,2-Dichloroethane-d4 (S)	%						109	110	50-150		
Toluene-d8 (S)	%						82	79	50-150		

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33614 | Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. | Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92269380012, 92269380013, 92269380014, 92269380019, 92269380020, 92269380021, 92269380022, 92269380023, 92269380024

METHOD BLANK: 1572169 | Matrix: Water
Associated Lab Samples: 92269380012, 92269380013, 92269380014, 92269380019, 92269380020, 92269380021, 92269380022, 92269380023, 92269380024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	10/01/15 23:21	
1,2-Dichloroethane-d4 (S)	%	102	50-150	10/01/15 23:21	
Toluene-d8 (S)	%	81	50-150	10/01/15 23:21	

LABORATORY CONTROL SAMPLE: 1572170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.9	99	71-125	
1,2-Dichloroethane-d4 (S)	%			100	50-150	
Toluene-d8 (S)	%			85	50-150	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: TREX PROP 03130430
Pace Project No.: 92269380

QC Batch: MSV/33633 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92269380006, 92269380007, 92269380025

METHOD BLANK: 1573214 Matrix: Water
Associated Lab Samples: 92269380006, 92269380007, 92269380025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	10/02/15 12:01	
1,2-Dichloroethane-d4 (S)	%	88	50-150	10/02/15 12:01	
Toluene-d8 (S)	%	79	50-150	10/02/15 12:01	

LABORATORY CONTROL SAMPLE: 1573215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	19.5	98	71-125	
1,2-Dichloroethane-d4 (S)	%			87	50-150	
Toluene-d8 (S)	%			79	50-150	

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: TREX PROP 03130430
Pace Project No.: 92269380

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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 decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TREX PROP 03130430
Pace Project No.: 92269380

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92269380001	**PMW-7A**	EPA 8260	MSV/33578		
92269380002	**PMW-7B**	EPA 8260	MSV/33578		
92269380003	**PMW-21A**	EPA 8260	MSV/33578		
92269380004	**PMW-21B**	EPA 8260	MSV/33578		
92269380005	**PMW-6A**	EPA 8260	MSV/33578		
92269380006	**PMW-5A**	EPA 8260	MSV/33578		
92269380007	**PMW-1A**	EPA 8260	MSV/33578		
92269380008	**PMW-1B**	EPA 8260	MSV/33586		
92269380009	**PMW-2A**	EPA 8260	MSV/33578		
92269380010	**PMW-2B**	EPA 8260	MSV/33586		
92269380011	**PMW-3A**	EPA 8260	MSV/33578		
92269380012	**PMW-18B**	EPA 8260	MSV/33589		
92269380013	**PMW-20A**	EPA 8260	MSV/33583		
92269380014	**PMW-20B**	EPA 8260	MSV/33589		
92269380015	**FIELD BLANK 9/23**	EPA 8260	MSV/33572		
92269380016	**EQUIPMENT BLANK 9/23**	EPA 8260	MSV/33572		
92269380017	**TRIP BLANK**	EPA 8260	MSV/33560		
92269380018	**TRIP BLANK 2**	EPA 8260	MSV/33560		
92269380019	**DUPLICATE**	EPA 8260	MSV/33583		
92269380020	**PMW-8A**	EPA 8260	MSV/33589		
92269380021	**PMW-8B**	EPA 8260	MSV/33583		
92269380022	**PMW-13B**	EPA 8260	MSV/33583		
92269380023	**PMW-9A**	EPA 8260	MSV/33589		
92269380024	**PMW-9B**	EPA 8260	MSV/33583		
92269380025	**PMW-9C**	EPA 8260	MSV/33583		
92269380026	**TAP**	EPA 8260	MSV/33599		
92269380001	**PMW-7A**	EPA 8260B Mod.	MSV/33613		
92269380002	**PMW-7B**	EPA 8260B Mod.	MSV/33613		
92269380003	**PMW-21A**	EPA 8260B Mod.	MSV/33613		
92269380004	**PMW-21B**	EPA 8260B Mod.	MSV/33613		
92269380005	**PMW-6A**	EPA 8260B Mod.	MSV/33613		
92269380006	**PMW-5A**	EPA 8260B Mod.	MSV/33633		
92269380007	**PMW-1A**	EPA 8260B Mod.	MSV/33633		
92269380008	**PMW-1B**	EPA 8260B Mod.	MSV/33605		
92269380009	**PMW-2A**	EPA 8260B Mod.	MSV/33613		
92269380010	**PMW-2B**	EPA 8260B Mod.	MSV/33613		
92269380011	**PMW-3A**	EPA 8260B Mod.	MSV/33613		
92269380012	**PMW-18B**	EPA 8260B Mod.	MSV/33614		
92269380013	**PMW-20A**	EPA 8260B Mod.	MSV/33614		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TREX PROP 03130430
Pace Project No.: 92269380

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92269380014	**PMW-20B**	EPA 8260B Mod.	MSV/33614		
92269380019	**DUPLICATE**	EPA 8260B Mod.	MSV/33614		
92269380020	**PMW-8A**	EPA 8260B Mod.	MSV/33614		
92269380021	**PMW-8B**	EPA 8260B Mod.	MSV/33614		
92269380022	**PMW-13B**	EPA 8260B Mod.	MSV/33614		
92269380023	**PMW-9A**	EPA 8260B Mod.	MSV/33614		
92269380024	**PMW-9B**	EPA 8260B Mod.	MSV/33614		
92269380025	**PMW-9C**	EPA 8260B Mod.	MSV/33633		

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Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16	Issuing Authority: Pace Huntersville Quality Office

Client Name: ~~ELF~~ ELT

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UP ☐ USP ☐ Clier ☐ Commercia ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1402 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1402 No Correction

Corrected Cooler Temp.: 4.9 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: TH 9/25/15

Temp should be above freezing to 6°C

		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: WT		
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	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present: TH 9/25/15	☑Yes ☐No ☐N/A	16. yes
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: _____

SCURF Review:		Date:	
SRF Review:		Date:	

Place label here

WO#: 92269380

92269380

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)

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

1997881

Section A Required Client Information:

Company: ELT
Address: 1650 Des Pres Rd
St Louis MO 63131
Email To:
Phone: 919 201 5768 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: David Craig
Copy To: Brian Bellis
Purchase Order No.:
Project Name: Trex Prop
Project Number: 03130430

Section C Invoice Information:

Attention: David Craig
Company Name: Trex Prop
Address: 1650 Des Pres Rd
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 4515-1

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: NC

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)	VOCs by 8260	1,4 Dioxane STAN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (92269380)
1	PMW-7 A	GW	G			9/23	0850		6				6						x	x		001
2	PMW-7B						0815		6				6						x	x		002
3	PMW-21 A						0910		6				6						x	x		003
4	PMW-21B						0920		6				6						x	x		004
5	PMW-6A						0955		6				6						x	x		005
6	PMW-5A						1000		6				6						x	x		006
7	PMW-1A						1145		6				6						x	x		007
8	PMW-1B						1200		6				6						x	x		008
9	PMW-2A						1120		6				6						x	x		009
10	PMW-2B						1155		6				6						x	x		010
11	PMW-3A						1245		6				6						x	x		011
12	PMW-18B						1350		6				6						x	x		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Chris Fay / Sampler	9/24	1000	[illegible] pace	9/25/15	1000	4.9	Y	N	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: Chris Fay
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 9/24/15

*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.

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Page: 2 of 3

1997882

Section A Required Client Information:

Company: ECT
Address: 1650 Des Pres Rd
St Louis MO 63131
Email To:
Phone: 919 201 5788 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: David Craig
Copy To: Brian Bellis
Purchase Order No.:
Project Name: Trex Prop
Project Number: 63130430

Section C Invoice Information:

Attention: David Craig
Company Name: Trex prop
Address: 1650 Des Pres Rd
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: NC

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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): VOCs by 8260	1,4 Dioxane SIM	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92269380
1	PMW-20A					9/23	1415		6				6					X	X		013
2	PMW-20B						1345		6				6					X	X		014
3	~~Fld~~ FieldBlank 9/23						0935		3				3					X			015
4	Equipment Blank 9/23						0840		3				3					X			016
5	Trip Blank						NA		3				2					X			017
6	Trip Blank						NA		3				2					X			018
7	Duplicate						1600		6				6					X	X		019
8	PMW-8A					9/22	1700		6				6					X	X		020
9	PMW8B						1640		6				6					X	X		021
10	PMW-13B						1635		6				6					X	X		022
11	PMW-9A						1600		6				6					X	X		023
12	PMW-9B						~~1640~~ 1630		6				6					X	X		024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	CO 7/Sampler	9/24	1000	~~[illegible]~~ pace	9/25/15	1006	4.9	Y	N	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: Chris Fox
SIGNATURE of SAMPLER: CO 7
DATE Signed (MM/DD/YY): 9/24/15

*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.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 3 of 3

1997883

Section A Required Client Information:
Company: EGT
Address: 1650 Des Peres Rd
St Louis MO 63131
Email To:
Phone: 919 201 5768 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: David Craig
Copy To: Brian Bellis
Purchase Order No.:
Project Name: Trex Prop
Project Number: 03430430

Section C Invoice Information:
Attention: David Craig
Company Name: Trex Prop
Address: 1650 Des Peres Rd
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☒ RCRA ☐ OTHER

Site Location STATE: NC

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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): VOCs by 8260	Analysis Test (Y/N): 1,4 Dioxane SIM	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92269380
1	PMW-9C	GW	G			9/22	1525		6				6					X	X		025
2	TAP	WT	G			9/22	1445		3				3					X			026
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / sampler	9/24	1000	[signature] pace	9/25/15	1000	49	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Chris Fay
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 9/24/15

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

*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.

Appendix E

Groundwater Sampling Forms

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

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Groundwater Sampling Form

Job Number 03130340
State ID
Well ID MW-22B
Date 12/11/14

Site Name Detrex
Well Depth 86'
Depth to Water 9.86
Well Diameter 2"
Casing Material PVC
Screen Length 5'
Well Water Volume
Sampling Crew C FAY
Pump Type Peri
Tubing Type poly
Intake set at 83'
Weather Conditions clear 40's
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
0958	9.98	–	3.68	13.9	292.0	7.08	335	9.99
1001	9.98	–	2.84	16.7	268.3	7.06	337	14.46
1004	9.98	0.25	2.74	17.2	261.1	7.14	339	15.97
1007	9.98	–	2.78	17.5	269.3	7.16	339	16.02
1010	9.98	–	2.68	17.1	259.5	7.14	340	13.17
1013	9.98	0.5	2.64	17.3	259.3	7.14	340	10.30

Other Parameters NA
Sampled at 1015
Parameters taken with YSI, TU 2016
Samples delivered to Pace
by
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	1 Liter glass	NA	7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Groundwater Sampling Form

Job Number 03130430
State ID
Well ID MW-22A
Date 12/11/14

Site Name Detrex
Well Depth 63'
Depth to Water 10.44
Well Diameter 2"
Casing Material PVC
Screen Length 5'
Well Water Volume
Sampling Crew CFAY
Pump Type peri
Tubing Type poly
Intake set at 60'
Weather Conditions clear mid 40's
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (mS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1025	10.74	—	7.93	13.4	268	7.52	262	160
1028	10.77	—	5.01	15.6	224	7.47	-16.1	75
1031	10.78	0.25	4.26	15.9	174	7.58	-120.7	51
1034	10.78	—	4.30	15.7	166	7.63	-140.9	52
1037	10.78	—	4.14	15.1	164	7.64	-155.0	52
1040	10.78	0.5	4.26	16.2	164	7.72	-160.1	50
1043	10.78	—	4.10	16.1	165	7.76	-165.0	48.66
1046	10.78	—	3.92	16.3	165	7.77	-154.4	54
1049	10.78	0.75	3.84	16.2	167	7.75	-157.3	52
1052	10.78	—	3.63	15.8	176	7.67	-154.3	52
1055	10.78	—	3.60	16.2	180	7.69	-150.2	52
1058	10.78	1.0	3.67	16.1	179	7.65	-147.3	50

Other Parameters NA
Sampled at 1100
Parameters taken with YSI / TU 2016
Samples delivered to _____ by _____ at _____

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	2	14 Days
SVOCs	None	1 Liter glass	NA	7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Groundwater Sampling Form

Job Number _____
State ID _____
Well ID MW-21B
Date 12/11/14

Site Name Detrex
Well Depth 67'
Depth to Water 8.09
Well Diameter 2"
Casing Material PVC
Screen Length 5'
Well Water Volume _____
Sampling Crew C (-AN)
Pump Type peri
Tubing Type poly
Intake set at 64'
Weather Conditions clear 40's wind gusty
Notes (eg. odor or color) _____

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (~~m~~S/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1104	8.58	–	~~1.8~~ 2.01	18.7	297	7.25	-23.5	18.56
1107	8.72	–	0.71	19.7	297	7.22	-69.6	12.60
1110	8.72	0.25	0.49	20.0	296	7.20	-93.6	11.48
1113	8.72	–	0.43	18.8	296	7.19	-112.6	9.57
1116	8.72	–	0.36	18.7	293	7.14	-124.4	6.46
1119	8.72	0.5	0.32	18.9	293	7.13	-129.0	4.98
1152	8.72	–	0.29	18.6	293	7.12	-134.9	4.79
1155	8.72	–	0.27	18.8	293	7.11	-137.3	5.13

Other Parameters
Sampled at 1200
Parameters taken with YSI, TU 2016
Samples delivered to Pace
by _____
at _____

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	2	14 Days
SVOCs	None	1 Liter glass	NA	7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	_____ gallons
2" well	[well depth-depth to water]	* 0.163	_____ gallons
4" well	[well depth-depth to water]	* 0.653	_____ gallons

WITHERS & RAVENEL

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Groundwater Sampling Form

Job Number 03130430
State ID
Well ID MW-21A
Date 12/11/14

Site Name Detrex
Well Depth 35'
Depth to Water 8.16
Well Diameter 2"
Casing Material PVC
Screen Length 5'
Well Water Volume
Sampling Crew C. FAY
Pump Type per:
Tubing Type poly
Intake set at 32
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (~~m~~S/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1205	8.32	—	1.79	16.7	231	7.50	26.6	49.79
1208	8.32	—	1.53	17.7	238	7.35	16.0	46.51
1211	8.32	0.25	0.51	17.7	237	7.29	8.1	27.29
1214	8.32	—	0.29	18.4	237	7.23	4.0	21.90
1217	8.32	—	0.24	18.0	238	7.20	-0.1	19.50
1220	8.32	0.5	0.21	18.6	238	7.20	-1.5	17.57
~~1223~~								
~~1226~~								
~~1229~~		0.25						

Other Parameters Sampled at 1225 Parameters taken with YSI TU2016
Samples delivered to _____ by _____ at _____

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	1 Liter glass	NA	7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 0313430.

State ID

Well ID MW-20B

Date 12/12/14

Groundwater Sampling Form

Site Name Trex

Well Depth 60'

Depth to Water 7.29

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew C FAY

Pump Type Peri

Tubing Type poly

Intake set at 57'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (mS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
0810	7.35	–	3.09	25.2	294	6.91	331	very
0813	7.35	–	2.59	27.0	286	6.87	327	
0816	7.35	0.25	2.35	28.4	281	6.85	322	
0819	7.35	–	2.20	28.5	278	6.82	318	
0822	7.35	–	2.25	28.4	273	6.79	313	
0825	7.35	0.5	2.24	28.4	270	6.77	308	

Other Parameters

Sampled at 0830 Parameters taken with

Samples delivered to by at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	1 Liter glass	NA	7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

State ID

Well ID MW-20A

Date 12/13/19

Groundwater Sampling Form

Site Name Trex

Well Depth 39'

Depth to Water 6.51

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew CFM

Pump Type peri

Tubing Type poly

Intake set at 36'

Weather Conditions

Notes (eg. odor or color) chlorinate odor

Duplicate sample - Duplicate - water @ 1000

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (mS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
0834	6.73	—	1.09	19.5	241	6.86	-196	72
0837	6.73	—	0.58	20.8	237	6.70	-184	99
0840	6.73	0.25	0.44	20.5	234	6.65	-210	99
0843	6.73	—	0.37	20.6	232	6.62	-234	88
0846	6.73	—	0.34	21.3	232	6.63	-280	64
0849	6.73	0.5	0.33	21.5	232	6.62	-315	56
0852	6.73	—	0.30	21.4	232	6.61	-339	59
0855	6.73	—	0.35	21.6	232	6.57	-345	53
0858	6.73	0.75	0.40	21.8	232	6.55	-350	50

Other Parameters

Sampled at 0900

Parameters taken with YSI TO 2016

Samples delivered to

by

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	1 Liter glass	N/A	7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Groundwater Sampling Form

Job Number 03130430
State ID
Well ID PMW-18A
Date 9/23/15

Site Name Trex
Well Depth 12'
Depth to Water 9.59
Well Diameter 2"
Casing Material PVC
Screen Length 5'
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at 11'
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1058	9.62	—	1.00	21.4	262	6.69	-28.1	106
1101	9.62	—	0.47	21.2	263	6.38	-64.8	71
1104	9.62	0.25	0.38	21.2	262	6.17	-81.3	54
1107	9.62	—	0.23	21.3	258	6.13	-93.1	47
1110	9.62	—	0.20	21.4	251	6.15	-100	37
1113	9.62	0.5	0.18	21.5	240	6.15	-99.9	26
1116	9.62	—	0.17	21.6	234	6.13	-93.1	18
1119	9.62	—	0.15	21.7	240	6.12	-98.1	15
1122	9.62	0.75	0.15	21.8	240	6.12	-97.1	15

Other Parameters NA
Sampled at 1125
Parameters taken with YSI Pro / Lotron turbid
Samples delivered to ESC Pace
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 0313047.0

State ID

Well ID PMW-1B

Date 9/23/15

Groundwater Sampling Form

Site Name Trex

Well Depth 54'

Depth to Water 9.65

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume 2"

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 52'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1137	9.70	–	5.00	21.5	364	7.33	-12.2	8.3
1140	9.70	–	3.25	21.7	364	8.19	-5.1	6.2
1143	9.70	0.25	2.71	22.1	364	8.39	3.3	6.1
1146	9.70	–	2.38	22.5	364	8.52	4.6	5.8
1149	9.70	–	1.92	22.3	369	8.61	4.5	5.7
1152	9.70	0.5	1.53	21.6	370	8.63	6.4	5.5
1155	9.70	–	1.08	21.3	374	8.59	9.0	5.9
1158	9.70	–	0.76	21.1	376	8.51	10.7	5.3
1201	9.70	0.75	0.71	21.2	377	8.52	9.9	5.1
1204	9.70	–	0.70	21.2	378	8.50	9.1	5.6

Other Parameters NA

Sampled at 1200

Parameters taken with YSI Pro / Lutron turbid

Samples delivered to ~~ESC~~ Pace

by Fed Ex

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 0313430

Groundwater Sampling Form

State ID

Well ID PMW-2A

Site Name Trex

Date 4-23-15

Well Depth 30'

Depth to Water 9.78

Well Diameter 2"

Casing Material PVC

Screen Length 10'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 25'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1101	10.09	–	3.38	19.79	0.143	5.14	180.6	5.36
1104	10.08	–	2.60	19.74	0.143	4.97	186.8	
1107	10.08	–	2.18	19.74	0.143	4.98	185.0	
1110	10.08	–	1.86	19.74	0.144	5.09	179.6	
1113	10.08	–	1.79	19.71	0.144	5.12	179.6	
1116	10.08	–	1.76	19.70	0.144	5.12	179.6	1.50

Other Parameters NA

Sampled at 1120 Parameters taken with YSI Pro / Lutron turbidity

Samples delivered to ~~ESC~~ Pace by Fed Ex at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Groundwater Sampling Form

Job Number 0313430
State ID
Well ID PMW-2B
Date 4-23-15

Site Name Trex
Well Depth 55'
Depth to Water 9.72
Well Diameter 2"
Casing Material PVC
Screen Length 5'
Well Water Volume
Sampling Crew ~~C Fay~~ P Jones
Pump Type peristaltic
Tubing Type poly
Intake set at 53'
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1136	9.74	–	2.80	19.60	0.172	5.81	217.6	2.05
1139	9.74	–	1.78	19.70	0.172	5.37	284.2	–
1142	9.74	–	1.66	20.17	0.175	5.44	239.3	–
1145		–	1.51	20.52	0.176	5.62	215.0	–
1148		–	1.46	20.65	0.177	5.69	211.8	–
1151		–	1.47	20.72	0.178	5.71	209.4	0.25

Other Parameters NA
Sampled at 1155
Parameters taken with YSI Pro
Samples delivered to ~~ESC~~ Pace
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

1215

WITHERS & RAVENEL

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Groundwater Sampling Form

Job Number 03136431
State ID
Well ID PMW-3D
Date 9/23/15

Site Name Trax
Well Depth 25'
Depth to Water 9.58
Well Diameter 2"
Casing Material PVC
Screen Length 10'
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at 20'
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1220	9.60	—	1.00	20.6	137	8.13	56.9	33.5
1223	9.60	—	0.62	20.4	134	7.44	66	17.4
1226	9.60	0.25	0.35	20.6	135	6.49	92	10.3
1229	9.60	—	0.26	20.3	134	6.00	107	9.5
1232	9.60	—	0.22	20.1	127	5.98	110	8.3
1235	9.60	0.5	0.20	20.1	150	5.99	110	8.7

Other Parameters NA
Sampled at 1245
Parameters taken with YSI Pro / Lutrom turbid
Samples delivered to ~~ESG~~ Pace
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

WITHERS & RAVENEL

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Groundwater Sampling Form

Job Number 0313430
State ID
Well ID DMW-4A
Date 9/23/15

Site Name Trex
Well Depth 12'
Depth to Water DRY
Well Diameter 2
Casing Material PVC
Screen Length 10'
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at NA
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
	Dry ~ 6 inches mud in bottom of well - 1.4 ft							

Other Parameters NA
Sampled at
Parameters taken with YSI Pro
Samples delivered to ESC
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408		gallons
2" well	[well depth-depth to water]	* 0.163		gallons
4" well	[well depth-depth to water]	* 0.653		gallons

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Groundwater Sampling Form

Job Number 03130470
State ID
Well ID PMW-5A
Date 9/23/15

Site Name Trex
Well Depth 39'
Depth to Water 7.51
Well Diameter 2"
Casing Material PVC
Screen Length 10'
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at 34'
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
0940	7.55	–	0.85	23.0	260	6.69	~~[illegible]~~	12.0
0943	7.55	–	0.57	22.9	260	6.59	109	7.2
0946	7.55	0.25	0.36	22.7	260	6.47	105	9.9
0949	7.55	–	0.32	22.7	260	6.43	103	8.3
0952	7.55	–	0.27	22.5	259	6.40	100	7.5
0955	7.55	0.5	0.23	22.4	259	6.38	98	6.7
0958	7.55	–	0.22	22.4	258	6.37	98	7.3

Other Parameters NA
Sampled at 1000
Parameters taken with YSI Pro / Lutron turbid
Samples delivered to ~~ESC~~ Pace
by ~~Fed Ex~~ courier
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Groundwater Sampling Form

Job Number 03130430
State ID
Well ID DMW-6A
Date 9-23-15

Site Name Trex Properties
Well Depth 38
Depth to Water 7.70
Well Diameter 2"
Casing Material PVC
Screen Length 10'
Well Water Volume
Sampling Crew ~~C Fay~~ P Jones
Pump Type peristaltic
Tubing Type poly
Intake set at ~~mid screen~~ 33'
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
0940	7.95		1.97	22.48	0.384	5.86	144.7	10.23
0943	7.90		1.13	22.45	0.385	5.77	150.4	
0946	7.90		0.83	22.47	0.385	5.76	151.4	
0949	7.89		0.79	22.61	0.385	5.78	151.9	10.60
0952	7.88							

Other Parameters NA
Sampled at 0955
Parameters taken with YSI Pro / Lutron turbidity
Samples delivered to ~~ESG~~ Pace
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130420

Groundwater Sampling Form

State ID

Well ID PMW-7A

Site Name Trex

Date 9/23/15

Well Depth 38 Depth to Water 9.42 Well Diameter 2"

Casing Material PVC Screen Length 10' Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic Tubing Type poly Intake set at 33'

Weather Conditions Cloudy Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
0809	9.45	–	2.00	20.9	207	5.73	181	3.3
0812	9.45	–	1.07	20.6	203	5.91	175	2.7
0815	9.46	0.25	0.60	20.6	194	5.96	176	2.5
0818	9.46	–	0.51	20.6	191	5.99	177	1.6
0821	9.46	–	0.40	20.6	191	6.00	178	1.3
0824	9.46	0.5	0.38	20.6	191	6.00	179	1.5
0827	9.46	–	0.36	20.6	190	6.00	181	1.6

Other Parameters NA

Sampled at 0830 Parameters taken with YSI Pro/Lutron turbid

Samples delivered to ~~ESC~~ Pace by ~~Fed Ex~~ courier at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 0313430

Groundwater Sampling Form

State ID

Well ID PMW-7B

Site Name Trex Properties

Date 4-23-15

Well Depth 55'

Depth to Water 9.50

Well Diameter 2

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew ~~C Fay~~ P Jones

Pump Type peristaltic

Tubing Type poly

Intake set at ~~midscreen~~ 53'

Weather Conditions Overcast

Notes (eg. odor or color) Clear

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
0802	9.58	–	5.99	19.59	0.210	6.72	115.2	8.15
0805	9.58	–	5.53	19.61	0.200	6.81	106.2	
0808	9.58	–	5.23	19.76	0.194	6.85	102.5	
0811	9.58	–	5.12	19.77	0.192	6.88	100.1	
0814	9.58	–	5.18	19.80	0.190	6.89	97.7	1.37

Other Parameters NA

Sampled at 0815

Parameters taken with YSI Pro / Lutron turbidity

Samples delivered to ~~ESC~~ Pace

by Fed Ex

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

Groundwater Sampling Form

State ID

Well ID PMW-8A

Site Name Trex

Date 9/22/15

Well Depth 42'

Depth to Water 10.78

Well Diameter 2"

Casing Material PVC

Screen Length 10'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 37'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1642	10.78	–	1.41	21.6	190	8.26	133	11.0
1645	10.78	–	0.58	21.3	178	7.57	134	13.7
1648	10.78	0.25	0.53	21.1	175	7.18	138	15.0
1651	10.78	–	0.48	20.9	174	7.02	140	16.0
1654	10.78	–	0.44	20.8	173	7.00	142	16.3
1657	10.78	0.5	0.42	20.8	173	7.01	142	17.0
1700	10.78	–	0.41	20.8	173	7.00	145	16.8

Other Parameters NA

Sampled at 1700

Parameters taken with ~~YSI Pro~~ Lutron turbid

Samples delivered to ~~ESC~~ Dale

by ~~Fed Ex~~ Courier at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane			3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

WITHERS & RAVENEL

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Job Number 03130430

Groundwater Sampling Form

State ID

Well ID PMW-8B

Site Name Trex

Date 9/22/15

Well Depth 58

Depth to Water 10.16

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 55'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1616	10.19	–	7.00	21.2	903	8.18	134	20.8
1619	10.19	–	1.98	20.7	912	8.56	135	6.2
1622	10.19	0.25	1.68	20.5	916	8.61	137	4.4
1625	10.19	–	1.72	20.5	917	8.63	137	3.8
1628	10.19	–	1.60	20.5	917	8.65	136	3.5
1631	10.19	0.250	1.61	20.5	917	8.65	135	3.7
1634	10.19	–	1.59	20.5	917	8.67	133	3.3

Other Parameters NA

Sampled at 1640 Parameters taken with YSI Pro / Lotron turbid

Samples delivered to ~~ESC~~ Pace by ~~Fed Ex~~ Courier at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

Groundwater Sampling Form

State ID

Well ID DMV-9A

Site Name Trex

Date 9-22-15

Well Depth 19'

Depth to Water 10.30

Well Diameter 2"

Casing Material

Screen Length 10'

Well Water Volume

Sampling Crew ~~CFay~~ P Jones

Pump Type peristaltic

Tubing Type poly

Intake set at 14'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1553	10.34		0.56	20.73	0.502	6.17	-32.2	49.67
1556	10.34		0.48	20.75	0.501	6.20	-34.9	
1559	10.34		0.41	20.81	0.501			

Other Parameters NA

Sampled at 1600

Parameters taken with YSI Pro/Lutron turbidity

Samples delivered to ~~ESC~~ Pace

by Fed Ex

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

State ID

Well ID PMW-9B

Date 9/22/15

Groundwater Sampling Form

Site Name Trex

Well Depth 34'

Depth to Water 10.33

Well Diameter

Casing Material PVC

Screen Length 10'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 29'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1504	10.35	–	2.00	21.3	418	6.91	89	99
1507	10.35	–	0.92	21.0	425	6.66	75	111
1510	10.35	0.25	0.47	20.7	427	6.36	67	105
1513	10.35	–	0.36	20.6	431	6.35	56	82
1516	10.35	–	0.29	20.2	439	6.35	48	63
1519	10.35	0.5	0.26	20.2	442	6.36	43	56
1522	10.35	–	0.22	20.1	445	6.40	39	53
1525	10.35	–	0.22	20.1	448	6.41	36	50
1528	10.35	0.75	0.21	20.0	449	6.42	35	55

Other Parameters NA

Sampled at 1530

Parameters taken with YSI Pro/Lutron turbidity

Samples delivered to ~~ESC~~ Pace

by ~~Fed Ex~~ courier at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass	N/A	7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 0313430

Groundwater Sampling Form

State ID

Well ID DMW-9C

Site Name Trex

Date 9-22-15

Well Depth 50'

Depth to Water 10.37

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at ~~Mid Screen~~ 48'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1510	10.43	–	2.19	20.35	0.284	6.48	163.7	1.69
1513	10.44	–	1.31	20.31	0.284	6.22	161.2	
1516	10.44	–	1.01	20.15	0.282	6.19	138.4	
1519	10.44	–	0.84	20.12	0.282	6.18	136.9	
1522	10.45	–	0.81	20.15	0.283	6.20	134.9	

Other Parameters NA

Sampled at 1525 Parameters taken with YSI Pro

Samples delivered to ~~ESC~~ Pace by ~~Fed Ex~~ at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430.03

Groundwater Sampling Form

State ID

Well ID DMW-10A

Site Name

Date 9-22-15

Well Depth

Depth to Water 9.11

Well Diameter 2

Casing Material

Screen Length

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1355	9.31		10.01	19.77	0.269	6.94	181.6	4.50
1358			5.18	19.73	0.269	6.30	154.6	
1401			4.79	19.66	0.269	6.23	147.0	
1404			4.52	19.55	0.268	6.21	148.1	

Other Parameters NA

Sampled at 1405 Parameters taken with YSI Pro

Samples delivered to ESC by Fed Ex at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408		gallons
2" well	[well depth-depth to water]	* 0.163		gallons
4" well	[well depth-depth to water]	* 0.653		gallons

WITHERS & RAVENEL

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Job Number 03130430

State ID

Well ID MW-10B

Date 9/22/15

Groundwater Sampling Form

Site Name Trexo

Well Depth 73'

Depth to Water 9.24

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 70'

Weather Conditions Cloudy

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1355	9.33	–	6.00	20.7	282	7.27	186	3.7
1358	9.33	–	2.17	20.0	282	6.85	192	5.2
1401	9.33	0.25	2.14	19.8	282	6.64	198	4.8
1404	9.33	–	2.12	19.8	282	6.82	198	3.1
1407	9.33	–	2.14	19.8	281	6.62	197	3.5
1410		0.5	2.15	19.9	282	6.65	195	3.0

Other Parameters NA

Sampled at 1415

Parameters taken with YSI Pro / Lotwin turbid

Samples delivered to ~~ESC~~ Pace

by ~~Fed Ex~~ courier

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03150430

State ID

Well ID DMW-11A

Date 9-22-15

Groundwater Sampling Form

Site Name TREX

Well Depth 63'

Depth to Water 9.29

Well Diameter 2

Casing Material PVC

Screen Length 10'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at midscreen

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1302	9.31		5.26	19.84	0.247	6.57	112.3	7.29
1305	9.32		4.80	19.77	0.247	6.59	108.8	
1308	9.32		4.61	19.67	0.246	6.61	106.2	
1311	9.32		4.39	19.64	0.245	6.64	103.6	1.76

Other Parameters NA

Sampled at 1315

Parameters taken with YSI Pro

Samples delivered to ESC

by Fed Ex

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408		gallons
2" well	[well depth-depth to water]	* 0.163		gallons
4" well	[well depth-depth to water]	* 0.653		gallons

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Job Number 03130430

State ID

Well ID MW-11B

Date 9/22/15

Groundwater Sampling Form

Site Name Trex

Well Depth 78'

Depth to Water 9.58

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 75'

Weather Conditions cloudy N wind

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1258	9.63	—	~~204~~ 4.73	20.1	251	7.43	173	4.3
1301	9.63	—	3.89	20.0	250	7.41	177	4.5
1306	9.63	0.25	3.99	19.9	251	7.33	183	3.5
1307	9.63	—	3.90	19.8	250	7.30	187	3.6
1310	9.63	—	3.97	19.9	251	7.33	186	3.1
1318	9.63	0.5	3.95	19.7	251	7.39	185	2.8

Other Parameters NA

Sampled at 1315

Parameters taken with YSI Pro + Lutron turbidity

Samples delivered to ~~ESG~~ Pace

by ~~Fed Ex~~ Courier

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

State ID

Well ID PMW 12A

Date 9-22-15

Well Diameter 2

Well Water Volume

Groundwater Sampling Form

Site Name Trex Properties

Well Depth 40

Depth to Water 8.28

Casing Material PVC

Screen Length 10'

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at Mid Screen

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
11.58	8.29		10.99	19.07	0.339	6.62	182.5	49.69
1201	8.29		1.61	18.34	0.347	5.87	128.4	43.73
1204	8.29		1.041	18.27	0.342	5.70	119.6	
1207	8.29		0.87	18.35	0.343	5.72	110.5	26.56
1210	8.29		0.73	18.44	0.343	5.77	101.5	10.56

Other Parameters NA

Sampled at 1210

Parameters taken with YSI Pro

Samples delivered to ESC

by Fed Ex

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408		gallons
2" well	[well depth-depth to water]	* 0.163		gallons
4" well	[well depth-depth to water]	* 0.653		gallons

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Job Number 03130430

Groundwater Sampling Form

State ID

Well ID MW-12B

Site Name Trex

Date

Well Depth 49

Depth to Water 8.35

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 46'

Weather Conditions Cloudy

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1154	8.40	—	9.00	18.9	313	6.68	160	6.7
1157	8.40	—	0.89	18.5	315	6.45	163	5.8
1200	8.40	0.25	0.54	18.3	316	6.37	165	5.9
1203	8.40	—	0.47	18.3	316	6.37	163	4.3
1206	8.40	—	0.45	18.3	317	6.39	161	4.2
1209	8.40	0.5	0.43	18.3	318	6.40	159	5.1
1212	8.40	—	0.41	18.2	319	6.39	158	5.5

Other Parameters NA

Sampled at 1215

Parameters taken with YSI Pro/Lutron turbid

Samples delivered to ~~ESG~~ Pace

by ~~Fed Ex~~

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane		40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Groundwater Sampling Form

Job Number 03130420
State ID
Well ID PMW-13B
Date 9-22-15

Site Name Trex
Well Depth 103
Depth to Water 9.84
Well Diameter 2
Casing Material PVC
Screen Length 5'
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at 100'
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1626			4.07	21.79	0.273	6.90	27.5	23.76
1629			3.91	21.83	0.272	6.92	32.4	19.25
1632			3.89	21.95	0.272	6.95	36.8	15.90

Other Parameters NA
Sampled at 1635
Parameters taken with YSI Pro / Lutron Turbidity
Samples delivered to ESC Pace
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml Jar	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

State ID

Well ID PMW-18A

Groundwater Sampling Form

Site Name Trex

Date 9/23/15

Well Depth 22'

Depth to Water ~~Dry~~ Damaged

Well Diameter 2"

Casing Material PVC

Screen Length 10'

Well Water Volume

Sampling Crew ~~C Fay~~ P Jones

Pump Type peristaltic

Tubing Type poly

Intake set at NA

Weather Conditions

Notes (eg. odor or color)

outer casing bent

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
	Dry @ 5.60 feet, unable to collect sample.							

Other Parameters NA

Sampled at

Parameters taken with ~~YSI Pro~~

Samples delivered to ~~ESC~~

by ~~Fed Ex~~

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass		14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

Groundwater Sampling Form

State ID

Well ID SMW-19B

Site Name Trex

Date 9-23-15

Well Depth 43

Depth to Water 8.31

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew ~~C Fay~~ P Jones

Pump Type peristaltic

Tubing Type poly

Intake set at ~~Midscreen~~ 41'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1338	8.33	–	12.61	24.20	0.231	6.79	241.0	1.11
1341	8.33	–	4.94	22.58	0.222	5.47	225.2	–
1344	8.33	–	3.17	22.04	0.218	5.07	214.7	–
1347	8.33	–	2.41	21.59	0.216	5.03	207.1	–
1350	8.33	–	2.34	21.52	0.215	5.10	210.1	1.32

Other Parameters NA

Sampled at 1350 Parameters taken with YSI Pro / Lutron turbidity

Samples delivered to ~~ESC~~ Pace by Fed Ex at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Groundwater Sampling Form

Job Number 031304130
State ID
Well ID PMW-20A
Date 9/23/15

Site Name Trex
Well Depth 35'
Depth to Water 7.77
Well Diameter 2"
Casing Material PVC
Screen Length 5
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at 32'
Weather Conditions
Notes (eg. odor or color)

Duplicate sample @ 1600

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1355	8.00	–	1.00	23.1	152	6.29	122	4.2
1358	8.00	–	0.41	21.7	150	6.05	115	3.3
1402	8.00	0.25	0.29	21.4	150	5.85	113	3.0
1404	8.00	–	0.24	21.4	150	5.71	118	2.3
1407	8.00	–	0.20	20.8	151	5.67	118	2.8
1410	8.00	0.5	0.21	20.0	151	5.70	118	2.1

Other Parameters NA
Sampled at 1415
Parameters taken with YSI Pro
Samples delivered to ~~ESC~~ Pace
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

Groundwater Sampling Form

State ID

Well ID PMW-2DB

Site Name Trex

Date 9/23/15

Well Depth 67'

Depth to Water 8.59

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 64'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1321	8.56	–	2.00	21.4	161	6.50	128	2.7
1324	8.56	–	0.54	20.6	169	6.02	143	2.5
1327	8.56	0.25	0.38	20.4	169	5.76	155	1.8
1330	8.56	–	0.30	20.3	160	5.67	158	1.5
1333	8.56	–	0.25	20.3	160	5.71	157	2.3
1336	8.56	0.5	0.23	20.4	161	5.76	154	1.3
1339	8.56	–	0.22	20.6	162	5.77	152	1.1
1342	8.56	–	0.21	20.4	162	5.78	150	1.7

Other Parameters NA

Sampled at 1345

Parameters taken with YSI Pro

Samples delivered to ~~ESC~~ Pace

by Fed Ex

at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Groundwater Sampling Form

Job Number 0313430
State ID
Well ID MW-21A
Date 9-23-15

Site Name Trex Properties
Well Depth 35
Depth to Water 8.85
Well Diameter 2"
Casing Material PVC
Screen Length 35'
Well Water Volume
Sampling Crew ~~C Fay~~ P Jones
Pump Type peristaltic
Tubing Type poly
Intake set at mid screen 33'
Weather Conditions
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
0855	9.20	–	5.05	21.72	0.198	6.78	130.3	2.72
0858	9.21	–	1.93	21.71	0.198	6.52	118.3	
0901	9.21	–	1.68	21.67	0.199	6.47	116.9	
0904	9.21	–	1.47	21.65	0.197	6.43	116.8	
0907	9.21	–	1.43	21.57	0.198	6.40	117.4	
0910	9.21	–	1.40	21.55	0.197	6.40	117.5	1.94

Other Parameters NA
Sampled at 0910
Parameters taken with YSI Pro / Lutron turbidity
Samples delivered to ~~ESC~~ Pace
by Fed Ex
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

Groundwater Sampling Form

State ID

Well ID PMW-7B

Site Name Trex

Date 9/23/13

Well Depth 67'

Depth to Water 8.74

Well Diameter 2"

Casing Material PVC

Screen Length 5'

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at 64'

Weather Conditions

Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
0856	8.78	–	4.18	22.1	241	6.51	155	2.4
0859	8.78	–	3.25	21.7	245	6.61	154	2.8
0902	8.78	0.25	3.09	21.7	245	6.66	155	2.1
0905	8.78	–	3.01	21.7	245	6.68	156	1.8
0908	8.78	–	3.03	21.8	246	6.70	157	1.5
0911	8.78	0.5	3.05	21.7	246	6.72	158	1.3

Other Parameters NA

Sampled at 0920 Parameters taken with YSI Pro / Lutron turbid

Samples delivered to ~~ESC~~ Pace by ~~Fed Ex~~ courier at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				
1,4 Dioxane	HCL	40 ml VOA	3	

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

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Job Number 03130430

Groundwater Sampling Form

State ID

Well ID PMW-22A

Site Name TREX PROPERTIES

Date 9-22-15

Well Depth 63

Depth to Water 12.52

Well Diameter 2

Casing Material PVC

Screen Length 5

Well Water Volume

Sampling Crew C Fay

Pump Type peristaltic

Tubing Type poly

Intake set at mid screen

Weather Conditions

Notes (eg. odor or color) Clear, no odors

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1027	12.53		4.09	18.89	0.181	6.47	121.6	11.42
1030	12.53		1.73	18.70	0.179	6.56	99.3	
1033	12.54		1.44	18.68	0.179	6.57	95.6	1.79
1036	12.54	< 1.0	1.32	18.67	0.179	6.60	93.1	0.00

Other Parameters NA

Sampled at 1040 Parameters taken with YSI Pro

Samples delivered to ESC by Fed Ex at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	6	14 Days
SVOCs	None	250 ml glass		7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408		gallons
2" well	[well depth-depth to water]	* 0.163		gallons
4" well	[well depth-depth to water]	* 0.653		gallons

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Groundwater Sampling Form

Job Number 03136430
State ID
Well ID PMW-22B
Date 9/22/15

Site Name Trex
Well Depth 86'
Depth to Water 12.22
Well Diameter 2"
Casing Material PVC
Screen Length ~~86'~~ 5'
Well Water Volume
Sampling Crew C Fay
Pump Type peristaltic
Tubing Type poly
Intake set at 82'
Weather Conditions cloudy N wind
Notes (eg. odor or color)

Time (24 Hr.)	Water Level (from TOC)	Volume Purged (Gals.)	DO (mg/L)	Temp (°C)	EC (µS/cm)	pH (standard)	ORP (mV)	Turbidity (NTU)
1027	12.~~425~~	–	5.50	19.1	246	6.72	89.7	5.0
1030	12.27	–	4.52	19.0	221	6.41	101	3.5
1033	12.27	0.25	4.10	18.7	200	6.32	108	2.4
1036	12.27	–	4.06	18.6	195	6.31	111	3.0
1039	12.27	–	4.05	18.5	192	6.34	114	2.5
1042	12.27	0.5	4.03	18.5	187	6.40	116	2.7

Other Parameters NA
Sampled at 1045
Parameters taken with YSI Pro / Lutron turbid
Samples delivered to ~~ESG~~ Pace
by ~~Fed Ex~~
at

Analysis	Preservative	Bottle ware	Number of Bottles	Hold Time
VOCs	HCL	40 ml VOAs glass	3	14 Days
SVOCs	None	250 ml glass	NA	7 Days
Metals	Nitric Acid	250 ml plastic		180 Days
NO3+NO2	Sulfuric Acid	125 ml plastic		28 Days
Herbicides	None	1 Liter glass		7 days
Pesticides	None	1 Liter glass		7 Days
Other				

Well Volume Calculation

1" well	[well depth-depth to water]	* 0.0408	gallons
2" well	[well depth-depth to water]	* 0.163	gallons
4" well	[well depth-depth to water]	* 0.653	gallons

Appendix F

Investigation Derived Waste Disposal Manifests

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NCD049773245	1	800-843-8365	G7245

5. Generator's Name and Mailing Address
Trex Properties, LLC
1650 Des Peres Rd. Suite 203
St. Louis, MO 63131
Generator's Phone: 248-358-5500

Generator's Site Address (if different than mailing address)
3114 Cullman Ave.
Charlotte, NC 28206

6. Transporter 1 Company Name: ENVIRONMENTAL PROD & SVCS OF VT, INC
U.S. EPA ID Number: NYR000115733

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Southern Logistics and Environmental, LLC
2710 Patterson St
Greensboro, NC 27407
Facility's Phone: 336-652-0292
U.S. EPA ID Number: NCR000163832

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Solid (IDW Soil Borings)	16	DM	112,800	P	
2.	Non Hazardous Solid (IDW Soil Borings)	16	DF		P	
3.						
4.						

13. Special Handling Instructions and Additional Information
9. 1) SLDF / (SB-22) / 16 X 55 GAL 2) SLDF / (SB-22) / __ X __ GAL
PO 7245

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Tim Connelly
Signature:
Month Day Year: 05 20 15

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William Hick
Signature:
Month Day Year: 5 20 15
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Bob Pugh
Signature:
Month Day Year: 05 20 15

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NCD049773245	2	800-843-8265	013305791 JJK

5. Generator's Name and Mailing Address
Trex Properties, LLC
1650 Des Peres Rd. Suite 203
St. Louis, MO 63131
Generator's Phone: 248-358-5600

Generator's Site Address (if different than mailing address)
3114 Cullman Ave.
Charlotte, NC 28205

6. Transporter 1 Company Name: ENVIRONMENTAL PROD & SVCS OF VT, INC — U.S. EPA ID Number: NYR000115733

7. Transporter 2 Company Name: North Star Logistics — U.S. EPA ID Number: NCD991302661

8. Designated Facility Name and Site Address
EWS Alabama, Inc.
402 Webster Chapel Rd.
Glencoe, AL 35905
Facility's Phone: 256-492-6340
U.S. EPA ID Number: ALD981020894

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. RQ, UN3082, Waste Environmentally hazardous substance, liquid, n.o.s., (Trichloroethylene, Tetrachloroethylene), 9, PGIII, ERG 171	34	DM	1,768	G	D039 D040 U210 U228
	2. RQ, UN3082, Waste Environmentally hazardous substance, liquid, n.o.s., (Trichloroethylene, Tetrachloroethylene), 9, PGIII, ERG 171		DF		G	D039 D040 U210 U228
	3. RQ, UN1593, Waste Dichloromethane, 6.1, PGIII, ERG 160	2	DM	100	G	F002
	4. RQ, UN1593, Waste Dichloromethane, 6.1, PGIII, ERG 160		DF		G	F002

14. Special Handling Instructions and Additional Information
9b. 1) App:116425/IDW Groundwater/~~X~~ X~~55~~GAL 2) App:116425/IDW Groundwater/_X_GAL
3) App:116424/Methylene Chloride/_X_GAL 4) App:116424/Methylene Chloride/_X_GAL
PO 7245

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tim Connally — Signature: [signature] — Month 05 Day 20 Year 15

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William Hicks, III — Signature: [signature] — Month 5 Day 20 Year 15
Transporter 2 Printed/Typed Name: SLE Bob Pugh — Signature: [signature] — Month 5 Day 20 Year 15

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name Signature Month Day Year

GENERATOR — INTL — TRANSPORTER — DESIGNATED FACILITY

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number NCD049773245	22. Page 2	23. Manifest Tracking Number 013305791JJK

24. Generator's Name
Trex Properties, LLC

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
	1. RQ, UN3082, Waste Environmentally hazardous substance, liquid, n.o.s., (Trichloroethylene, Dichloromethane), 9, PGIII, ERG 171	4	DM	400	G	D006	D007	D008
						D039	D040	F001
	2. RQ, UN3082, Waste Environmentally hazardous substance, liquid, n.o.s., (Trichloroethylene, Dichloromethane), 9, PGIII, ERG 171	1	DF	50	G	D006	D007	D008
						D039	D040	F001
	3. RQ, UN3077, Waste Environmentally hazardous substance, solid, n.o.s, (Methylene Chloride, Trichloroethylene), 9, PGIII, ERG 171	2	CF	2,000	P	D006	D007	D008
						D039	D040	F001
	4. RQ, UN3077, Waste Environmentally hazardous substance, solid, n.o.s, (Methylene Chloride, Trichloroethylene), 9, PGIII ERG 171	7	DM	4,900	P	D006	D007	D008
						F001	F002	
	5. RQ, UN3077, Waste Environmentally hazardous substance, solid, n.o.s, (Methylene Chloride, Trichloroethylene), 9, PGIII ERG 171		DF		P	D006	D007	D008
						F001	F002	
	6. RQ. UN3077 Waste Environmentally Hazardous Substance, Solid, N.O.S Methylene Chloride, Trichloroethylene	2	DM	200	P	D006	D007	D008
						F001	F002	

GENERATOR

32. Special Handling Instructions and Additional Information
27b. 1) App:116426/Tank Rinse Water/4 X 55GAL/F002,U210,U228 2) App:116426/Tank Rinse Water/1 X55GAL/F002,U210,U228
3)App:116449/LUWA Inspection Solids/2 X 55GAL/F002 4)App:116450/Process Piping/1 X55GAL
5)App:116450/Process Piping/__X__GAL PO 7245 6)App: /LUWA Inspection Solids, 2 X55

TRANSPORTER

33. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
William Fletcher	[signature]	5	20	15

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

SOUTHERN LOGISTICS AND ENVIRONMENTAL, LLC

LAND DISPOSAL RESTRICTIONS - NOTICE AND CERTIFICATION

Generator Name: Trex Properties, LLC	EPA ID# NCD049773245
Manifest Tracking # 013305791JJK	Waste Approval Number(s) 116425, 116424, 116426, 116449, 116450

Line Item 9b	(1) U.S. EPA Hazardous Waste Code(s)	(2) Wastewater or Non-Wastewater (check one)	(3) Subcategory (If applicable) Enter number from the table shown below	(4) Underlying Hazardous Constituents, Enter constituent name from List, or enter directly on UHC form, or Enter "NONE" (if none of the UHCs are present)	(5) Mark "X" if UHC Constituents are being listed directly on UHC form	(6) Certification Statement - Enter designated letter (A through J)
1	D039, D040, U210, U228	X NWW	NONE	Trichloroethylene, Tetrachloroethylene	N/A	A
2	D039, D040, U210, U228	X NWW	NONE	Trichloroethylene, Tetrachloroethylene	N/A	A
3	F002	X NWW	NONE	Methylene Chloride	N/A	A
4	F002	X NWW	NONE	Methylene Chloride	N/A	A
Line Item 27b						
1	D006, D007, D008, D039, D040, F001, F002, U210, U228	X NWW	9, 12	Cd, Cr, Pb, Trichloroethylene, Tetrachloroethylene	N/A	A
2	D006, D007, D008, D039, D040, F001, F002, U210, U228	X NWW	9, 12	Cd, Cr, Pb, Trichloroethylene, Tetrachloroethylene	N/A	A
3	D006, D007, D008, D039, D040, F001, F002	X NWW	9, 12	Cd, Cr, Pb, Trichloroethylene, Tetrachloroethylene	N/A	B
4	D006, D007, D008, F001, F002	X NWW	9, 12	Cd, Cr, Pb, Trichloroethylene, Tetrachloroethylene	N/A	B
5	D006, D007, D008, F001, F002	X NWW	9, 12	Cd, Cr, Pb, Trichloroethylene, Tetrachloroethylene	N/A	B
6		X NWW				
7		X NWW				
8		X NWW				
9		X NWW				
10		X NWW				

Box 1: Identify and enter all US EPA hazardous waste codes that apply to this waste and listed on the Uniform Hazardous Waste Manifest line item 9b

Box 2: A "Wastewater" (WW) is defined as a waste containing less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). Non-wastewater (NWW) is any waste not meeting the definition of a wastewater.

Box 3: Enter the appropriate EPA "Subcategory" using the numbering system listed in the table below. Enter this number in Column 3. Enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 40 CFR 268.49 (c) for Contaminated Soil and/or 40 CFR 268.45 for Debris.

Box 4: Use this column to list each individual UHC by their reference number as listed in the LDR-2 Table.

Box 5: Place an "X" in this column if you are choosing to complete and attach DART's LDR-2 Table for listing the UHCs present in place of listing them separately in Column 4

Box 6: Enter the applicable "letter" as designated in Form LDR-3 for the appropriate "Notification" or "Certification" statement relevant to the hazardous waste.

SUBCATEGORIES (40 CFR 268.40)

Enter the corresponding number of the applicable subcategory in column 3

1	D001	Ignitable wastes (except high TOC ignitable liquids)	9	D006	Cadmium Non-Battery Subcategory
2	D001	High TOC (> 10%) Ignitable liquid subcategory	10	D006	Cadmium Containing Batteries Subcategory
3	D002	Corrosive waste (non-CWA or CWA equivalent)	11	D008	Lead Acid Batteries Subcategory
4	D002	Corrosive waste (CWA or CWA equivalent)	12	D008	Lead Non-Battery Subcategory
5	D003	Reactive Cyanide Subcategory	13	D009	High Mercury Organic Subcategory (> 260 PPM Total Mercury)
6	D003	Reactive Sulfide Subcategory	14	D009	High Mercury Inorganic Subcategory (> 260 PPM Total Mercury)
7	D003	Water Reactive Subcategory	15	D009	Low Mercury Subcategory - RMERC Residue (< 260 PPM Total Mercury)
8	D003	Other Reactive Subcategory	16	D009	Low Mercury Subcategory Non-RMERC Residues (< 260 PPM Total Mercury)

*See 40 CFR 268.40 for additional "Subcategories" for "Listed" waste that may be applicable to your waste

F001-F005 SPENT SOLVENTS

Enter an "X" next to each F001-F005 solvent present in the waste

	F001-F005 SOLVENT		F001-F005 SOLVENT		F001-F005 SOLVENT
	ACETONE		CYCLOHEXANONE		NITROBENZENE
	BENZENE		DICHLOROBENZENE		PYRIDINE
	N-BUTANOL		ETHYL ACETATE	X	TETRACHLOROETHYLENE
	CARBON DISULFIDE		ETHYL BENZENE		TOLUENE
	CARBON TETRACHLORIDE		ETHYL ETHER		1,1,1-TRICHLOROETHANE
	CHLOROBENZENE		ISOBUTANOL		1,12-TRICHLOROETHANE
	O-CRESOL		METHANOL		1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
	M-CRESOL	X	METHYLENE CHLORIDE	X	TRICHLOROETHYLENE
	P-CRESOL		METHYL ETHYL KETONE		TRICHLOROMONOFLUOROMETHANE
	CRESOLS-CRESYLIC ACID		METHYL ISOBUTYL KETONE		XYLENES (MIXED)

I certify that the information provided in the LDR form and all associated documents is true, accurate and complete to the best of my knowledge and belief.

Authorized Signature:	Print Name: Tim Connally
Company\Title: Trex Properties / Operations	Date: 05/20/15

SOUTHERN LOGISTICS AND ENVIRONMENTAL, LLC

LAND DISPOSAL RESTRICTIONS - NOTICE AND CERTIFICATION

/ under penalty of law the following:

X A This is restricted waste that must be treated to meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

X B This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45.

____ C This restricted waste has been treated to remove the hazardous characteristics and contains underlying hazardous constituents that require further treatment to meet the universal treatment standards.

..that the waste has been treated accordance with the requirements of 40 CFR 268.40 or 268.49 to remove the hazardous characteristic. The decharacterized waste contains underlying hazardous constituents that require further treatment to meet the treatment standards.

____ D This restricted waste has been treated to remove the hazardous characteristic and has been treated for underlying hazardous constituents.

...that the waste has been treated accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic and that the underlying hazardous constituents, as defined in Part 268.2 (i) have been treated on-site to meet the 40 CFR 268.48 Universal Treatment Standards.

____ E This restricted waste has been treated to the performance standards.

...that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste.

____ F This restricted waste can be land disposed without treatment.

...that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D. I believe that the information I submitted is true, accurate, and complete.

____ G This lab pack does not contain any wastes identified at Appendix IV to 40 CFR Part 268.

...that I have personally examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under appendix IV to 40 CFR part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c).

____ H This restricted waste is subject to an exemption from land disposal.

...that this waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR part 268.5, an exemption under 40 CFR 268.6 or a nationwide capacity variance under 40 CFR 269 subpart C.

____ I This restricted waste with treatment standards expressed as concentrations in the waste pursuant to 40 CFR 268.43, if compliance with the treatment standards in subpart D of this part is based in part or in whole on the analytical detection limit alternative in 40 CFR 268.439(c).

...that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 40 CFR 268.42, table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents.

____ J This contaminated soil does not contain listed hazardous waste and does not exhibit a characteristic of hazardous waste and is subject to the soil treatment standards as provided by 40 CFR 268.49(c) or the universal treatment standards.

...that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes.

...I am aware that there are significant penalties for submitting a false certification including the possibility of fine and imprisonment.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NCD049773345
2. Page 1 of 2
3. Emergency Response Phone: 888-613-3094
4. Manifest Tracking Number: 013305884 JJK

GENERATOR

5. Generator's Name and Mailing Address
Trex Properties, LLC
1650 Des Peres Rd. Suite 230
St. Louis MO 63131
Generator's Phone:

Generator's Site Address (if different than mailing address)
Trex Properties, LLC
3114 Cullamn Ave
Charlotte NC 28206

6. Transporter 1 Company Name: ENVIRONMENTAL PROD & SVCS OF VT, INC
U.S. EPA ID Number: NYR000115733

7. Transporter 2 Company Name: Southern Logistics & Environmental, LLC
U.S. EPA ID Number: NCR000163832

8. Designated Facility Name and Site Address
~~Wayne Disposal, Inc. Site #2 Landfill~~ Michigan Disposal Waste Treatment Plant
49350 N. I-94 Service Drive
Belleville MI 48111
Facility's Phone: 800 592-5489
U.S. EPA ID Number: MID000724831

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3082, Waste Environmentally hazardous substance, liquid, n.o.s., (Trichloroethylene, Tetrachloroethylene), 9, PGIII, ERG 171	16	DM	1760	P	U210 U228
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) App. _____ /(IDW Soil Borings - Liquids) 16 x 55 Gal PO# 7245
APP: F151105M01

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: DAVID CROWLEY / ON BEHALF OF TREX PROPERTIES LLC
Signature:
Month 06 Day 03 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William Hite, II
Signature:
Month 06 Day 03 Year 15
Transporter 2 Printed/Typed Name: Bob Tugh
Signature:
Month 6 Day 11 Year 15

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H110 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Tonya Cougar
Signature:
Month 06 Day 25 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: NCD049773245

22. Page: 2 of 2

23. Manifest Tracking Number: 013305884JJK

24. Generator's Name: Trex Properites, LLC

25. Transporter 3 Company Name: EQ Industrial Services — U.S. EPA ID Number: MIK435642742

26. Transporter 4 Company Name: EQ Industrial Services — U.S. EPA ID Number: MIK435642742

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

32. Special Handling Instructions and Additional Information: PO# 7245

GENERATOR

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name: Lavaris Checks — Signature: [signature] — Month 6 Day 16 Year 15

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name: Tonya Stewart — Signature: [signature] — Month 6 Day 18 Year 15

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

US ecology

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 013305884JJK

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et sea.

FACILITY NAME:
(Please check one)

☒ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number NCD049773245	22. Page 2 of 2	23. Manifest Tracking Number 013305884JJK

24. Generator's Name: Trex Properties LLC

25. Transporter 3 Company Name: EQ Industrial Services — U.S. EPA ID Number: MIK435642742

26. Transporter ____ Company Name: <none> — U.S. EPA ID Number:

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol	31. Waste Codes		

32. Special Handling Instructions and Additional Information

PO# 7245

GENERATOR

33. Transporter ____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter ____ Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NCD049773245
2. Page 1 of 13
3. Emergency Response Phone: 800-843-8265
4. Manifest Tracking Number: 013305789 JJK

5. Generator's Name and Mailing Address
Trex Properties, LLC
1650 Des Peres Rd. Suite 203
St. Louis, MO 63131
Generator's Phone: 248-358-5600

Generator's Site Address (if different than mailing address)
8114 Cullman Ave.
Charlotte, NC 28205

6. Transporter 1 Company Name: ENVIRONMENTAL PROD & SVCS OF VT, INC
U.S. EPA ID Number: NYR000115733

7. Transporter 2 Company Name: ~~EQ Industrial Services~~ Southern Logistics and Environmental, LLC
U.S. EPA ID Number: ~~MIR4355412742~~ NCR000163832

8. Designated Facility Name and Site Address
Wayne Disposal, Inc. Site #2 Landfill
49350 N. I-94 Service Drive
Belleville, MI 48111 USA
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID048090633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. RQ, UN3077, Waste Environmentally hazardous substance, solid, n.o.s., (Trichloroethylene, Tetrachloroethylene), 9, PGIII, ERG 171	6 ~~22~~	DM	9800 ~~17,600~~	P	U210 ~~D039~~	U228 ~~D040~~	
	2. RQ, UN3077, Waste Environmentally hazardous substance, solid, n.o.s., (Trichloroethylene, Tetrachloroethylene), 9, PGIII, ERG 171		DF		R	U210	U228	
	3. RQ, UN3082, Waste Environmentally hazardous substance, liquid, n.o.s., (Trichloroethylene, Tetrachloroethylene), 9, PGIII, ERG 171		DM		G	U210	U228	
	4. RQ, UN3082, Waste Environmentally hazardous substance, liquid, n.o.s., (Trichloroethylene, Tetrachloroethylene), 9, PGIII, ERG 171		DF		G	U210	U228	

14. Special Handling Instructions and Additional Information
9b. 1) App: E156074W DI-OTS/ IDW Soil Borings 6 X 55 GAL 2) App: E156074W DI-OTS/ IDW Soil Borings / __ X __ GAL
3) App: _____/IDW Soil Borings Liquids/__X__GAL 4) App: _____/IDW Soil Borings Liquids/__X__GAL
PO 7245

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: X Jim Connelly
Signature: X
Month Day Year: X 06 03 15

GENERATOR

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____
Transporter signature (for exports only): Date leaving U.S.:

INT'L

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William Hale
Signature:
Month Day Year: 6 3 15
Transporter 2 Printed/Typed Name: Bob Tugh
Signature:
Month Day Year: 6 11 15

TRANSPORTER

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Tonya Cougar
Signature:
Month Day Year: 06 25 15

DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: NCD049773245

22. Page: 2

23. Manifest Tracking Number: 313305789JJK

24. Generator's Name: Trex Properties LLC

25. Transporter 3 Company Name: EQ Industrial Services — U.S. EPA ID Number: MIK435642742

26. Transporter 4 Company Name: EQ Industrial Services — U.S. EPA ID Number: MIK435642742

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		22		17400				

32. Special Handling Instructions and Additional Information

PO 7245

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name: William Hale — Signature: [illegible] — Month 6 Day 3 Year 15

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name: Lavaris Checks — Signature: [illegible] — Month 6 Day 16 Year 15

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

US ecology CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 013305789JJK

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et sea.

FACILITY NAME: *(Please check one)*

☐ Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc. (EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-593-5329

Authorized Signature: _____

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

SOUTHERN LOGISTICS AND ENVIRONMENTAL, LLC

LAND DISPOSAL RESTRICTIONS - NOTICE AND CERTIFICATION

Generator Name: Trex Properties, LLC	EPA ID# NCD049773245
Manifest Tracking # 013305789JJK	Waste Approval Number(s) E156074WDI-OTS

Line Item 9b	(1) U.S. EPA Hazardous Waste Code(s)	(2) Wastewater or Non-Wastewater (check one)	(3) Subcategory (If applicable) Enter number from the table shown below	(4) Underlying Hazardous Constituents, Enter constituent name from List, or enter directly on UHC form, or Enter "NONE" (If none of the UHCs are present)	(5) Mark "X" If UHC Constituents are being listed directly on UHC form	(6) Certification Statement - Enter designated letter (A through J)
1	U210, U228	X NWW	N/A	NONE	N/A	J
2	U210, U228	X NWW	N/A	NONE	N/A	J
3						
4						
Line Item 27b						
1		X NWW				
2		X NWW				
3		X NWW				
4		X NWW				
5		X NWW				
6		X NWW				
7		X NWW				
8		X NWW				
9		X NWW				
10		X NWW				

Box 1: Identify and enter all US EPA hazardous waste codes that apply to this waste and listed on the Uniform Hazardous Waste Manifest line item 9b

Box 2: A "Wastewater" (WW) is defined as a waste containing less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). Non-wastewater (NWW) is any waste not meeting the definition of a wastewater.

Box 3: Enter the appropriate EPA "Subcategory" using the numbering system listed in the table below. Enter this number in Column 3. Enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 40 CFR 268.49 (c) for Contaminated Soil and/or 40 CFR 268.45 for Debris.

Box 4: Use this column to list each individual UHC by their reference number as listed in the LDR-2 Table.

Box 5: Place an "X" in this column if you are choosing to complete and attach DART's LDR-2 Table for listing the UHCs present in place of listing them separately in Column 4

Box 6: Enter the applicable "letter" as designated in Form LDR-3 for the appropriate "Notification" or "Certification" statement relevant to the hazardous waste.

SUBCATEGORIES (40 CFR 268.40)

Enter the corresponding number of the applicable subcategory in column 3

1	D001	Ignitable wastes (except high TOC ignitable liquids)	9	D006	Cadmium Non-Battery Subcategory
2	D001	High TOC (> 10%) Ignitable liquid subcategory	10	D006	Cadmium Containing Batteries Subcategory
3	D002	Corrosive waste (non-CWA or CWA equivalent)	11	D008	Lead Acid Batteries Subcategory
4	D002	Corrosive waste (CWA or CWA equivalent)	12	D008	Lead Non-Battery Subcategory
5	D003	Reactive Cyanide Subcategory	13	D009	High Mercury Organic Subcategory (> 260 PPM Total Mercury)
6	D003	Reactive Sulfide Subcategory	14	D009	High Mercury Inorganic Subcategory (> 260 PPM Total Mercury)
7	D003	Water Reactive Subcategory	15	D009	Low Mercury Subcategory - RMERC Residue (< 260 PPM Total Mercury)
8	D003	Other Reactive Subcategory	16	D009	Low Mercury Subcategory Non-RMERC Residues (< 260 PPM Total Mercury)

*See 40 CFR 268.40 for additional "Subcategories" for "Listed" waste that may be applicable to your waste

F001-F005 SPENT SOLVENTS

Enter an "X" next to each F001-F005 solvent present in the waste

F001-F005 SOLVENT	F001-F005 SOLVENT	F001-F005 SOLVENT
ACETONE	CYCLOHEXANONE	NITROBENZENE
BENZENE	DICHLOROBENZENE	PYRIDINE
N-BUTANOL	ETHYL ACETATE	TETRACHLOROETHYLENE
CARBON DISULFIDE	ETHYL BENZENE	TOLUENE
CARBON TETRACHLORIDE	ETHYL ETHER	1,1,1-TRICHLOROETHANE
CHLOROBENZENE	ISOBUTANOL	1,12-TRICHLOROETHANE
O-CRESOL	METHANOL	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
M-CRESOL	METHYLENE CHLORIDE	TRICHLOROETHYLENE
P-CRESOL	METHYL ETHYL KETONE	TRICHLOROMONOFLUOROMETHANE
CRESOLS-CRESYLIC ACID	METHYL ISOBUTYL KETONE	XYLENES (MIXED)

I certify that the information provided in the LDR form and all associated documents is true, accurate and complete to the best of my knowledge and belief.

Authorized Signature:	Print Name: Tim Connolly
Company\Title: TREX PROPERTIES	Date: 06/03/15

SOUTHERN LOGISTICS AND ENVIRONMENTAL, LLC

LAND DISPOSAL RESTRICTIONS - NOTICE AND CERTIFICATION

I certify under penalty of law the following:

_____ A This is restricted waste that must be treated to meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

_____ B This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45.

_____ C This restricted waste has been treated to remove the hazardous characteristics and contains underlying hazardous constituents that require further treatment to meet the universal treatment standards.

..that the waste has been treated accordance with the requirements of 40 CFR 268.40 or 268.49 to remove the hazardous characteristic. The decharacterized waste contains underlying hazardous constituents that require further treatment to meet the treatment standards.

_____ D This restricted waste has been treated to remove the hazardous characteristic and has been treated for underlying hazardous constituents.

...that the waste has been treated accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic and that the underlying hazardous constituents, as defined in Part 268.2 (i) have been treated on-site to meet the 40 CFR 268.48 Universal Treatment Standards.

_____ E This restricted waste has been treated to the performance standards.

...that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste.

_____ F This restricted waste can be land disposed without treatment.

...that I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR part 268 subpart D. I believe that the information I submitted is true, accurate, and complete.

_____ G This lab pack does not contain any wastes identified at Appendix IV to 40 CFR Part 268.

...that I have personally examined and am familiar with the waste and that the lab pack contains only wastes that have not been excluded under appendix IV to 40 CFR part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c).

_____ H This restricted waste is subject to an exemption from land disposal.

...that this waste is subject to an exemption from a prohibition on the type of land disposal method utilized for the waste (such as, but not limited to, a case-by-case extension under 40 CFR part 268.5, an exemption under 40 CFR 268.6 or a nationwide capacity variance under 40 CFR 269 subpart C.

_____ I This restricted waste with treatment standards expressed as concentrations in the waste pursuant to 40 CFR 268.43, if compliance with the treatment standards in subpart D of this part is based in part or in whole on the analytical detection limit alternative in 40 CFR 268.439(c).

...that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion units as specified in 40 CFR 268.42, table 1. I have been unable to detect the nonwastewater organic constituents, despite having used best good faith efforts to analyze for such constituents.

X J This contaminated soil does contain listed hazardous waste and does not exhibit a characteristic of hazardous waste and is subject to the soil treatment standards as provided by 40 CFR 268.49(c) or the universal treatment standards.

...that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes.

...I am aware that there are significant penalties for submitting a false certification including the possibility of fine and imprisonment.

Appendix G

Field Notes and Photo Documentation: Slug Testing and Well Elevation Survey

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

Photo #1: Northwest looking view of county property to north of Trex site, which is in use as an equipment laydown area for the Blue Line Rail construction project.

Photo #2: W&R field rep opening well PMW-10A in tall grass to the north of PMW-10B in foreground next to yellow metal detector.

Photo #3: Monitoring well PMW-10A is the brown patch to right of tools.

Photo #4: Closer view of PMW-10A.

Photo #5: Preparing to begin slug-in test at PMW-10B. Grey solid PVC slug is 4.5 feet long. Electric water level meter on right was used to obtain manual water level readings during the tests to check readings made by pressure transducer and recorded on field computer.

Photo #6: Decontaminating pressure transducer before lowering it into well PMW-10B.

Photo #7: Black pressure transducer cable on right marked with silver duct tape at the point that puts the transducer port five feet below the measured static water level. White rope on left is attached to the PVC slug and is marked at the point where the top of the slug is at the measured static water level.

Photo #8: W&R rep entering well and test data into Win-Situ software. Transducer cable on left is connected to the computer, which shows test data as testing proceeds.

Photo #9: W&R rep looking for PMW-13B in area covered by crushed rock in rail construction equipment laydown area.

Photo #10: Flush mounted protective cover for PMW-13B in center of photo.

Photo #11: South looking view of PMW-13B location (lower center) with respect to that of 3114 Cullman Avenue in background.

Photo #12: Manual slug-in test underway at location PMW-13B. Relatively slow rate of water level recovery at this location did not require the use of pressure transducer or data logging software.

Photo #13: Location of PMW-8A (center of picture) under reinforcing bar assemblies for concrete piers being installed by rail construction contractors. The well could not be accessed to obtain a water-level.

Photo #14: East looking view of wells PMW-1A and -1B. Exposed rebar for completed concrete piers for new rail line shown to the right. 3114 Cullman Ave building to the left.

Photo #15: Wells PMW-20A (right) and -20B (left) installed in December 2014 behind the southeastern corner of building used by "Nexus Church" to east of 3124 Cullman Ave. Crushed rock brought into area by driller to accommodate drill rig access to location.

Photo #16: East looking view of wells PMW-18A and -18B on soil island adjacent to new rail line.

Photo #17: West looking view from PMW-18 location of rail construction area.

Photo #18: East looking view from PMW-18 location of rail construction area.

Photo #19: Southwest looking view of wells PMW-22A (left) and -22B, installed in December 2014 on county property to north of Little Sugar Creek.

Photo #20: South looking view from PMW-22 location. W&R rep with tripod and survey level in yellow vest in approximate center of photo.

CONTENTS

PAGE	REFERENCE	DATE

Rite in the Rain
ALL-WEATHER WRITING PAPER

ALL-WEATHER
TRANSIT FIELD BOOK

Name BRIAN BELLIS
WITHERS & RAVENEL

Address 1410 COMMONWEALTH DR.
WILMINGTON NC 28403

Phone 919-730-7482

Project CONAGRA 9/14 Pgs 1-14
BAILEY ROAD 9/30/14 + 10/1/14 Pgs 15-18
Troy Chandler 12/1/14 - 1/28/15 Pgs 19-29
Hummingbird Cafe 3/26/15 Pg 32

Rite in the Rain — A patented, environmentally responsible, all-weather writing paper that sheds water and enables you to write anywhere, in any weather. Using a pencil or all-weather pen, *Rite in the Rain* ensures that your notes survive the rigors of the field, regardless of the conditions.

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Page Pattern		Cover Options	
Left Page	Right Page	Polydura Cover	Fabrikoid Cover
Columnar	1/8" X 1/4" Grid	Item No. 300	Item No. 300F

RiteintheRain.com

Made in the USA
US Pat No. 6,863,940

Trey Charlotte BJB

Page 19 12/1/14

- Arrive on-site 11:30 am meet w/ Fred Lacca - Chillicothe Rich is driller in charge

- Show Rich locations of three drilling sites.

- 1:00 pm Begin w/ a Delay meet w/ Department Manager to clear key door opener so to store drums overnight.

- 12 hrs meet w/ utility locator and show him well point locations

- Tenant in building to north of Little Sugar Creek says grassed area to west of building is owned & maintained by city/county.

- Mark well location off grass in brush 10 ft west of grass.

Trey Charlotte BJB

Page 20 12/1/14

- 12:45 hrs Chris Fay arrives show him locations of borings & discuss sampling & waste storage procedures

- Begin drilling PMW-21B in front parking lot of Nexus Church @ 13 hrs

- See Chris Fay more back for further detail.

TREY CHARLOTTE BB

Page 21 1/27/15

- Arrive on site 10^45 hrs w/ Chris Fay
- Search for wells PMW-10A & B in laydown area for RR construction equip on Casty property to North
- Using metal detector find PMW-10A in tall grass to north of PMW-10B which is in mowed grass see photo's @ 11^30 Hrs
- Open wells and allow to acclimate to atmospheric conditions
- SWL in PMW-10A = 7.61' BTOC @ 11:41 hrs
- SWL in PMW-10B = 7.43' BTOC @ 11:42 hrs
- SWL in PMW-10B = 7.44' BTOC @ 11:52 hrs ok to start test
- Measure length 12.43' from xducer to mark position on cable w/ silver duct tape

TREY CHARLOTTE BB

Page 22 1/27/15

- Lower xducer into PMW-10B to silver tape mark secure
- Do test run @ 12:15 hrs see computer file for slug in data (Start time on computer is 1:45:51 AM)
- End test w/ water level @ 7.42 ft btoc setup for slug out test
- Start slug out test @ 12:30 hrs (Computer Clock Time 2:04:31)
  1st Rdg 7.69 -> xducer
  1st Rdg 7.70 -> manual.
- Stop Test @ 12:40 hrs - Pull
- WL in PMW-10A = 7.61 @ 12:45
- Set up for slug in test place silver tape 12.61 ft from xducer - top & lower into well to mark
- mark w/ tape on rope attached to slug (became 7.61' ft above top of slug)
- Set up new test on computer

TROY

BJB

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1/27/15

- Stop slug in test @ ~12:56
- Recorded manual readings as well for PMW-10A
- Set up slug-out test on computer.
- Start slug out at 13:01 hrs
- Readings back to static w/in 3-4 minutes
- End slug-out test, decon equipment. Move to PMW-13B

- PMW-13B is located under crushed rock temp roadway locate using metal detector

- SWL in PMW-13B is 8.61 ft BTOC
- Set up test on computer
- Measure 13.61 ft from top TOP to cable + mark w/tape
- Measure 8.61 ft from top of slug + mark w/tape
- After placing transducer in well WL rose to 8.45' and didn't dissipate in 10 minutes. Therefore will conduct test manually

TROY

BJB

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1/27/15

- Start manual test in MW-13B @ 14:00 hrs

- Decon transducer cable send Chris to start tests on PMW-1A + 1B while I take manual readings @ MW-13B

- Chris begins recovery test (slug out @ 1507 hrs) PMW-1~~B~~A SWL = 6.70 and does slug in to start now

- 1535 Start slug in @ PMW-1B after decon + setup like previous
  SWL = 6.79'
  @ ~3 min WL = 6.37

3:30	"	6.47
4:00	"	6.56
4:30	"	6.62
5:00	"	6.69
5:30	"	6.73
6:00	"	6.75
6:30	"	6.77
7:00	"	6.78

E.O.T

TROY B/B

P25 1/27/15

- Set up slug out test on computer for PMW-1B

- Start slug out @ 1545

@ 1:00 min	7.74	Ft Bgl
1:30 min	7:48	
2:00 min	7:28	
2:30 "	7.13	
3:00 "	7.04	
3:30 "	6.97	
4:00 "	6.92	
4:30 "	6.88	
5:00 "	6.86	
5:30 "	6.85	
6:00 "	6.84	

End of Test

- Return to PMW-13B Take last reading of slug in test @ 15:58 hrs

- Pull Slug & start manual slug out in PMW-13B @ 16:00 hrs See manual checks

- End manual Rdgs @ 17:30 hrs due to darkness

E.O.D.

TROY B/B

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- Arrive on site 0745 hrs w/ Chris Fry
- Chris sets up Trimble GPS & goes to locate Monitoring wells behind building
- I will get water levels from wells that can be accessed

PMW-1A	= 6.83	Ft Bgl
PMW-1B	= 6.96	
PMW-2A	= 7.06	
-2B	= 6.88	
-3A	= 6.99	
-4A	= 11.01	
-5A	= 5.18	
-6A	= 5.58	
-7A	= 7.97	
-7B	= 8.11	
-9A	= 9.02	
-9B	= 9.28	
-9C	= 9.33	
-10A	= 7.78	
-10B	= 7.55	
-11A	= 7.78	
-11B	= 8.06	

TREX RAB

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PMW-13A = 8.63 ft BTOC
-18A = 6.32
-18B = 6.20
-20A = 5.56
-20B = 6.29
-21A = 7.57
-21B = 7.45
-22A = 9.45
-22B = 8.82

- Finish water levels except for PMW-4A, -22A -22B 1000 hrs

- Start to survey elevations 1015

SETUP #1

	Rod Elev
PMW-7B TOC	6.95
-21A TOC	7.78
Gnd	7.37
-21B TOC	7.73
Gnd	7.42
-20A TOC	4.96
Gnd	7.71
-20B TOC	4.35
Gnd	7.67

TREX RAB

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- Chris Fay Rod Bldg for Set-up #1 as check

PMW-7B TOC	6.93
21A TOC	7.79
Gnd	7.36
21B TOC	7.72
Gnd	7.43
20A TOC	4.96
Gnd	7.77
20B TOC	4.34
Gnd	7.67

SETUP #2 North of Cullman Ave.

	Rod
PMW-7B TOC	6.22
-9A TOC	6.75
-22A TOC	3.05
Gnd	6.15
-22B TOC	3.20
Gnd	5.84

TROY

BJB

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1/28/15

Chris Fay Rec Edgs for
Setup #2

MW-7B TOC	6.26
MW-9A TOC	6.76
22A TOC	3.05
Grd	6.13
22B TOC	3.20
Grd	5.82

- End survey work 11AM
- Closeup/secure monitoring wells leave site 11:30AM

WITHERS & RAVENEL
ENGINEERS | PLANNERS | SURVEYORS

Revisions			
No.	Description	Date	By

DETREX FACILITY
3114 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

SITE MAP

Drawn By	Scale
CF	1"=100'
Checked By	Date
BB	1/13/15

Job No. 03130430
Sheet No. 1

W:\13\13-0430\130430.01-TREX CHARLOTTE OFF SITE WELLS\CAD\TREX PROPERTY - BASEMAP-GW ASSESSMENT.DWG 1/21/2015 3:20 PM FAY, CHRISTOPHER 1:1

WITHERS & RAVENEL
ENGINEERS | PLANNERS | SURVEYORS

Project	Project No.
TREY CHARLOTTE	09130430.01

Subject: NEW WELL ELEVATIONS

Date	By	Sheet No.
2/17/15	BAB	1

SURVEY POINT	ROD READING (BELLIS)	DIFFERENCE FROM TBM	SURVEY PT ELEVATION
(SET-UP #1)			
PMW-7B TOC (TBM)	6.95	—	683.74 ✓
PMW-21A TOC	7.78	-0.83	682.91 ✓
" " GND	7.37	-0.42	683.32 ✓
PMW-21B TOC	7.73	-0.78	682.96 ✓
" " GND	7.42	-0.47	683.27 ✓
PMW-20A TOC	4.96	+1.99	685.73 ✓
" " GND	7.71	-0.76	682.98 ✓
PMW-20B TOC	4.35	+2.60	686.34 ✓
" " GND	7.67	-0.72	683.02 ✓

(SET-UP #2)	ROD READING (FMY)		ACTUAL	CALC
PMW-7B TOC (TBM CHK)	6.26	+0.50	683.74	683.53 ✓
PMW-9A TOC (TBM 2)	6.76	—	683.03	—
PMW-22A TOC	3.05	+3.71		686.74 ✓
" " GND	6.13	+0.63		683.66 ✓
PMW-22B TOC	3.20	+3.56		686.59 ✓
" " GND	5.82	+0.94		683.97 ✓

WITHERS & RAVENEL
ENGINEERS | PLANNERS | SURVEYORS

Project	Project No.
TRCY CHARLOTTE	03130420.01
Subject: NEW WELL ELEVATIONS	
Date: 3/17/15 + 10/21/15	By: ZJB / Sheet No. 1

SURVEY POINT	ROD RDG (BELLIS)	DIFFERENCE FROM TBM	SURVEY PT ELEVATION	
(SET-UP #1)				
PMW-7B TOC (TBM)	6.75	–	~~683.74~~ 684.04	10/21/15 RECALC
PMW-21A TOC	7.78	−0.83	~~682.41~~	683.21
" " GND	7.37	−0.42	~~682.82~~	683.62
PMW-21B TOC	7.73	−0.78	~~682.46~~	683.26
" " GND	7.42	−0.47	~~682.77~~	683.57
PMW-20A TOC	4.96	+1.49	~~684.72~~	686.03
" " GND	7.71	−0.76	~~682.19~~	683.28
PMW-20B TOC	4.35	+2.60	~~686.34~~	686.64
" " GND	7.67	−0.72	~~683.02~~	683.32
(SET-UP #2)	ROD RDG (FINAL)		ACTUAL / CALC	
PMW-7B TOC (TBM CHK)	6.26	+0.50	~~683.74~~ 684.04 / ~~683.54~~	683.82
PMW-9A TOC (TBM 2)	6.76	–	~~683.02~~ 683.32 / –	
PMW-22A TOC	3.05	+3.71	~~686.74~~	687.03
" " GND	6.13	+0.63	~~683.66~~	683.95
PMW-22B TOC	3.20	+3.56	~~686.59~~	686.88
" " GND	5.82	+0.94	~~683.97~~	684.26

BJB 10/21/15

NOTE: Original TOC elevations provided by Amec were erroneous. TOC elevations used in Amec's April 2013 Draft Interim Report Addendum for wells PMW-7B (684.04 ft msl) + PMW-9A (683.32 ft msl) have been used here to correct the TOC + Ground Surface elevations for PMW-20A+B, 21A+B + 22A+B provided in our May 26, 2015 Draft RFI Report.

Brian J. Bellis
10/21/15

Appendix H

Slug Test Manual Readings and Data Logger Records

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

Trex Properties, Charlotte NC: Data Logger Record for MW-1A Slug In Test
W&R Project No. 03130430.01

Report Date:	January 27, 2015
Report User Name:	Administrator
Report Computer Name:	WR1105

Log File Properties

File Name	MW-1A In XD Data
Create Date	February 16, 2015

Device Properties

Device	Level TROLL® 700
Site	Trex Property
Device Name	
Serial Number	127883
Firmware Version	2.07

Log Configuration

Log Name	MW-1A In
Created By	Administrator
Computer Name	WR1105
Application	WinSitu.exe
Application Version	5.6.1.8
Create Date	January 27, 2015
Notes Size(bytes)	4096
Type	True Logarithmic
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop	No Stop Time
Max Interval	Days: 0 Hours: 00 Mins: 02 Secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Level Depth To Water
Specific Gravity	0.9990
Level Reference Mode:	Set new reference
Level Reference Value:	6.7 (ft)
Level Reference Head Pressure	0.808137 (PSI)
Head Pressure	0.808162 (PSI)
Temperature	13.8021 (C)
Depth of Probe	5 feet Below SWL

Log Notes:

Date and Time	Note
1/27/2015 15:17	Manual Start Command
1/27/2015 15:22	Manual Stop Command

Log Data:

Record Count	89

Trex Properties, Charlotte NC: Data Logger Record for MW-1A Slug In Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Water Level Checks (ft BTOC)
3:17:50 PM	0.000	0.000	1.291	5.585	
3:17:51 PM	0.471	0.008	1.274	5.625	
3:17:51 PM	0.691	0.012	1.278	5.614	
3:17:51 PM	0.911	0.015	1.265	5.644	
3:17:51 PM	1.130	0.019	1.261	5.653	
3:17:51 PM	1.352	0.023	1.259	5.660	
3:17:52 PM	1.575	0.026	1.248	5.684	
3:17:52 PM	1.797	0.030	1.268	5.639	
3:17:52 PM	2.020	0.034	1.306	5.551	
3:17:53 PM	2.503	0.042	1.182	5.836	
3:17:53 PM	2.722	0.045	1.260	5.656	
3:17:53 PM	2.943	0.049	1.168	5.868	
3:17:53 PM	3.162	0.053	1.225	5.738	
3:17:54 PM	3.383	0.056	1.272	5.628	
3:17:54 PM	3.606	0.060	1.161	5.884	
3:17:54 PM	3.828	0.064	1.174	5.855	
3:17:54 PM	4.049	0.067	1.227	5.733	
3:17:54 PM	4.271	0.071	1.201	5.792	
3:17:55 PM	4.762	0.079	1.210	5.773	
3:17:55 PM	4.983	0.083	1.215	5.760	
3:17:55 PM	5.202	0.087	1.090	6.049	
3:17:56 PM	5.422	0.090	1.204	5.787	
3:17:56 PM	5.642	0.094	1.184	5.833	
3:17:56 PM	5.866	0.098	1.140	5.934	
3:17:56 PM	6.090	0.102	1.157	5.894	
3:17:57 PM	6.601	0.110	1.152	5.907	
3:17:57 PM	6.823	0.114	1.152	5.907	
3:17:57 PM	7.140	0.119	1.141	5.931	
3:17:58 PM	7.780	0.130	1.135	5.944	
3:17:58 PM	8.001	0.133	1.132	5.953	
3:17:59 PM	8.460	0.141	1.124	5.972	
3:17:59 PM	9.006	0.150	1.116	5.989	
3:18:00 PM	9.480	0.158	1.108	6.007	
3:18:00 PM	10.159	0.169	1.099	6.029	
3:18:01 PM	10.680	0.178	1.091	6.047	
3:18:02 PM	11.374	0.190	1.083	6.066	
3:18:02 PM	11.940	0.199	1.075	6.083	
3:18:03 PM	12.660	0.211	1.067	6.103	
3:18:04 PM	13.815	0.230	1.054	6.133	
3:18:04 PM	14.220	0.237	1.048	6.146	
3:18:05 PM	15.060	0.251	1.039	6.167	
3:18:06 PM	15.960	0.266	1.029	6.190	
3:18:07 PM	16.920	0.282	1.019	6.213	
3:18:08 PM	17.880	0.298	1.009	6.237	
3:18:09 PM	18.960	0.316	0.999	6.258	
3:18:10 PM	20.100	0.335	0.990	6.281	
3:18:11 PM	21.300	0.355	0.981	6.302	
3:18:13 PM	22.560	0.376	0.974	6.318	
3:18:14 PM	23.880	0.398	0.964	6.341	
3:18:15 PM	25.320	0.422	0.955	6.361	
3:18:17 PM	26.919	0.449	0.945	6.384	
3:18:19 PM	28.380	0.473	0.938	6.400	
3:18:20 PM	30.185	0.503	0.930	6.418	
3:18:22 PM	31.860	0.531	0.923	6.436	
3:18:24 PM	33.720	0.562	0.914	6.455	
3:18:26 PM	35.932	0.599	0.906	6.473	
3:18:28 PM	37.860	0.631	0.900	6.488	

Trex Properties, Charlotte NC: Data Logger Record for MW-1A Slug In Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Water Level Checks (ft BTOC)
3:18:30 PM	40.080	0.668	0.895	6.500	
3:18:33 PM	42.480	0.708	0.889	6.514	
3:18:35 PM	45.000	0.750	0.882	6.529	
3:18:38 PM	47.686	0.795	0.877	6.540	
3:18:41 PM	50.460	0.841	0.875	6.545	
3:18:44 PM	53.460	0.891	0.871	6.554	
3:18:47 PM	56.698	0.945	0.866	6.567	
3:18:50 PM	60.000	1.000	0.863	6.574	6.55
3:18:54 PM	63.600	1.060	0.860	6.580	
3:18:57 PM	67.200	1.120	0.857	6.586	
3:19:02 PM	71.400	1.190	0.856	6.589	
3:19:06 PM	75.600	1.260	0.853	6.595	
3:19:10 PM	79.800	1.330	0.851	6.600	
3:19:15 PM	84.600	1.410	0.850	6.604	
3:19:20 PM	90.005	1.500	0.849	6.606	6.61
3:19:25 PM	94.800	1.580	0.847	6.610	
3:19:31 PM	100.800	1.680	0.847	6.609	
3:19:37 PM	106.800	1.780	0.846	6.614	
3:19:43 PM	112.800	1.880	0.845	6.616	
3:19:50 PM	119.400	1.990	0.844	6.617	6.63
3:19:57 PM	126.600	2.110	0.843	6.620	
3:20:05 PM	134.400	2.240	0.842	6.621	
3:20:12 PM	142.200	2.370	0.842	6.622	
3:20:21 PM	150.600	2.510	0.841	6.625	6.64
3:20:30 PM	159.600	2.660	0.841	6.625	
3:20:39 PM	169.225	2.820	0.840	6.627	
3:20:49 PM	178.800	2.980	0.840	6.627	
3:21:00 PM	189.600	3.160	0.838	6.631	
3:21:11 PM	201.155	3.353	0.837	6.632	
3:21:23 PM	213.172	3.553	0.838	6.632	6.65
3:21:36 PM	225.600	3.760	0.836	6.635	
3:21:49 PM	239.055	3.984	0.837	6.633	

Trex Properties, Charlotte NC: Data Logger Record for MW-1A Slug Out Test
W&R Project No. 03130430.01

Report Date:	January 27, 2015
Report User Name:	Administrator
Report Computer Name:	WR1105

Log File Properties

File Name	MW-1A Out XD Data
Create Date	February 16, 2015

Device Properties

Device	Level TROLL® 700
Site	Trex Property
Device Name	
Serial Number	127883
Firmware Version	2.07

Log Configuration

Log Name	MW-1BOut
Created By	Administrator
Computer Name	WR1105
Application	WinSitu.exe
Application Version	5.6.1.8
Create Date	January 27, 2015
Notes Size(bytes)	4096
Type	True Logarithmic
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop	No Stop Time
Max Interval	Days: 0 Hours: 00 Mins: 02 Secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Level Depth To Water
Specific Gravity	0.999
Level Reference Mode:	Set new reference
Level Reference Value:	6.7 (ft)
Level Reference Head Pressure	0.829029 (PSI)
Head Pressure	0.829289 (PSI)
Temperature	13.7348 (C)
Depth of Probe	5 feet below SWL

Log Notes:

Date and Time	Note
1/27/2015 15:09	Manual Start Command
1/27/2015 15:14	Manual Stop Command

Log Data:

Record Count	92

Trex Properties, Charlotte NC: Data Logger Record for MW-1A Slug Out Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Water Level Check (ft BTOC)
3:09:56 PM	0.000	0.000	0.412	7.664	
3:09:57 PM	0.470	0.008	0.422	7.640	
3:09:57 PM	0.689	0.011	0.426	7.631	
3:09:57 PM	0.909	0.015	0.430	7.621	
3:09:57 PM	1.129	0.019	0.435	7.611	
3:09:58 PM	1.349	0.022	0.439	7.600	
3:09:58 PM	1.573	0.026	0.444	7.589	
3:09:58 PM	1.796	0.030	0.447	7.582	
3:09:58 PM	2.019	0.034	0.452	7.570	
3:09:59 PM	2.501	0.042	0.463	7.545	
3:09:59 PM	2.721	0.045	0.467	7.536	
3:09:59 PM	2.941	0.049	0.471	7.527	
3:09:59 PM	3.161	0.053	0.474	7.519	
3:10:00 PM	3.383	0.056	0.479	7.509	
3:10:00 PM	3.606	0.060	0.483	7.500	
3:10:00 PM	3.828	0.064	0.487	7.490	
3:10:00 PM	4.049	0.067	0.491	7.481	
3:10:00 PM	4.271	0.071	0.495	7.472	
3:10:01 PM	4.763	0.079	0.504	7.449	
3:10:01 PM	4.983	0.083	0.508	7.441	
3:10:01 PM	5.203	0.087	0.511	7.434	
3:10:02 PM	5.422	0.090	0.514	7.428	
3:10:02 PM	5.643	0.094	0.518	7.419	
3:10:02 PM	5.867	0.098	0.522	7.410	
3:10:02 PM	6.091	0.102	0.525	7.402	
3:10:03 PM	6.602	0.110	0.535	7.379	
3:10:03 PM	6.824	0.114	0.538	7.372	
3:10:03 PM	7.140	0.119	0.541	7.364	
3:10:04 PM	7.780	0.130	0.552	7.339	
3:10:04 PM	8.001	0.133	0.556	7.330	
3:10:05 PM	8.460	0.141	0.561	7.319	
3:10:05 PM	9.007	0.150	0.570	7.299	
3:10:06 PM	9.480	0.158	0.574	7.288	
3:10:06 PM	10.160	0.169	0.584	7.266	
3:10:07 PM	10.680	0.178	0.591	7.250	
3:10:08 PM	11.374	0.190	0.599	7.230	
3:10:08 PM	11.940	0.199	0.605	7.217	
3:10:09 PM	12.660	0.211	0.615	7.194	
3:10:10 PM	13.816	0.230	0.627	7.166	
3:10:10 PM	14.220	0.237	0.631	7.157	
3:10:11 PM	15.060	0.251	0.637	7.144	
3:10:12 PM	15.960	0.266	0.647	7.120	
3:10:13 PM	16.920	0.282	0.656	7.100	
3:10:14 PM	17.880	0.298	0.663	7.083	
3:10:15 PM	18.960	0.316	0.672	7.063	
3:10:16 PM	20.100	0.335	0.680	7.045	
3:10:17 PM	21.300	0.355	0.688	7.026	
3:10:19 PM	22.560	0.376	0.695	7.009	
3:10:20 PM	23.880	0.398	0.703	6.991	
3:10:21 PM	25.320	0.422	0.711	6.972	
3:10:23 PM	26.820	0.447	0.718	6.956	
3:10:25 PM	28.380	0.473	0.725	6.940	
3:10:26 PM	30.060	0.501	0.732	6.925	
3:10:28 PM	31.860	0.531	0.737	6.912	
3:10:30 PM	33.720	0.562	0.744	6.896	

Trex Properties, Charlotte NC: Data Logger Record for MW-1A Slug Out Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Water Level Check (ft BTOC)
3:10:32 PM	35.760	0.596	0.750	6.882	
3:10:34 PM	37.860	0.631	0.756	6.870	
3:10:36 PM	40.080	0.668	0.759	6.861	
3:10:39 PM	42.480	0.708	0.765	6.848	
3:10:41 PM	45.000	0.750	0.769	6.839	
3:10:44 PM	47.640	0.794	0.772	6.831	
3:10:47 PM	50.460	0.841	0.776	6.823	
3:10:50 PM	53.460	0.891	0.780	6.814	
3:10:53 PM	56.640	0.944	0.782	6.809	
3:10:56 PM	60.000	1.000	0.785	6.803	
3:11:00 PM	63.600	1.060	0.787	6.798	
3:11:03 PM	67.273	1.121	0.788	6.795	
3:11:08 PM	71.400	1.190	0.791	6.788	
3:11:12 PM	75.600	1.260	0.792	6.785	
3:11:16 PM	79.832	1.331	0.793	6.782	
3:11:21 PM	84.600	1.410	0.796	6.777	
3:11:26 PM	90.000	1.500	0.797	6.774	
3:11:31 PM	94.873	1.581	0.796	6.775	
3:11:37 PM	100.882	1.681	0.799	6.770	
3:11:43 PM	106.890	1.782	0.799	6.768	
3:11:49 PM	112.898	1.882	0.800	6.767	
3:11:56 PM	119.400	1.990	0.800	6.766	
3:12:03 PM	126.600	2.110	0.802	6.762	
3:12:11 PM	134.400	2.240	0.803	6.760	
3:12:18 PM	142.200	2.370	0.805	6.755	
3:12:27 PM	150.600	2.510	0.803	6.760	
3:12:36 PM	159.600	2.660	0.804	6.757	
3:12:45 PM	169.276	2.821	0.805	6.755	
3:12:55 PM	179.008	2.983	0.805	6.755	
3:13:06 PM	189.599	3.160	0.806	6.752	6.72
3:13:17 PM	201.000	3.350	0.807	6.751	
3:13:29 PM	213.000	3.550	0.808	6.749	
3:13:42 PM	225.599	3.760	0.807	6.750	
3:13:55 PM	238.800	3.980	0.808	6.748	
3:14:09 PM	253.200	4.220	0.808	6.749	
3:14:25 PM	268.446	4.474	0.809	6.745	
3:14:40 PM	283.800	4.730	0.809	6.747	

Trex Properties, Charlotte NC: Data Logger Record for MW-1B Slug In Test
W&R Project No. 03130430.01

Report Date:	42031
Report User Name:	Administrator
Report Computer Name:	WR1105

Log File Properties

File Name	MW-1B In XD Data
Create Date	42051

Device Properties

Device	Level TROLL® 700
Site	Trex Property
Device Name	
Serial Number	127883
Firmware Version	2.07

Log Configuration

Log Name	MW-1B in
Created By	Administrator
Computer Name	WR1105
Application	WinSitu.exe
Application Version	5.6.1.8
Create Date	42031
Notes Size(bytes)	4096
Type	True Logarithmic
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop	No Stop Time
Max Interval	Days: 0 Hours: 00 Mins: 02 Secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Level Depth To Water
Specific Gravity	0.999
Level Reference Mode:	Set new reference
Level Reference Value:	6.79 (ft)
Level Reference Head Pressure	0.439521 (PSI)
Head Pressure	0.438691 (PSI)
Temperature	13.2554 (C)
Depth of Probe	5 feet below SWL

Log Notes:

Date and Time	Note
1/27/2015 15:37	Manual Start Command
1/27/2015 15:44	Manual Stop Command

Log Data:

Record Count	97

Trex Properties, Charlotte NC: Data Logger Record for MW-1B Slug In Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Water Level Check (ft BTOC)
3:37:51 PM	0.000	0.000	1.133	5.190	
3:37:51 PM	0.489	0.008	1.183	5.073	
3:37:52 PM	0.709	0.012	1.108	5.246	
3:37:52 PM	0.929	0.015	1.097	5.273	
3:37:52 PM	1.148	0.019	1.148	5.155	
3:37:52 PM	1.368	0.023	1.140	5.172	
3:37:52 PM	1.592	0.027	1.137	5.180	
3:37:53 PM	1.814	0.030	1.140	5.172	
3:37:53 PM	2.037	0.034	1.116	5.228	
3:37:53 PM	2.259	0.038	1.122	5.214	
3:37:54 PM	2.721	0.045	1.093	5.281	
3:37:54 PM	2.941	0.049	1.111	5.241	
3:37:54 PM	3.161	0.053	1.171	5.101	
3:37:54 PM	3.380	0.056	1.124	5.209	
3:37:54 PM	3.600	0.060	1.144	5.163	
3:37:55 PM	3.823	0.064	1.150	5.149	
3:37:55 PM	4.046	0.067	1.117	5.225	
3:37:55 PM	4.268	0.071	1.119	5.220	
3:37:56 PM	4.764	0.079	1.113	5.234	
3:37:56 PM	4.984	0.083	1.137	5.179	
3:37:56 PM	5.205	0.087	1.054	5.372	
3:37:56 PM	5.425	0.090	1.089	5.289	
3:37:57 PM	5.646	0.094	1.108	5.247	
3:37:57 PM	5.869	0.098	1.100	5.265	
3:37:57 PM	6.093	0.102	1.108	5.247	
3:37:57 PM	6.604	0.110	1.099	5.267	
3:37:58 PM	6.825	0.114	1.098	5.271	
3:37:58 PM	7.140	0.119	1.095	5.277	
3:37:59 PM	7.790	0.130	1.091	5.286	
3:37:59 PM	8.011	0.134	1.089	5.289	
3:37:59 PM	8.461	0.141	1.085	5.299	
3:38:00 PM	9.007	0.150	1.082	5.306	
3:38:00 PM	9.480	0.158	1.078	5.317	
3:38:01 PM	10.170	0.170	1.074	5.325	
3:38:02 PM	10.680	0.178	1.070	5.335	
3:38:02 PM	11.383	0.190	1.066	5.343	
3:38:03 PM	11.940	0.199	1.061	5.354	
3:38:04 PM	12.660	0.211	1.057	5.363	
3:38:04 PM	13.440	0.224	1.050	5.380	
3:38:05 PM	14.220	0.237	1.047	5.388	
3:38:06 PM	15.060	0.251	1.040	5.404	
3:38:07 PM	15.960	0.266	1.034	5.418	
3:38:08 PM	16.920	0.282	1.027	5.433	
3:38:09 PM	17.880	0.298	1.022	5.445	
3:38:10 PM	18.960	0.316	1.015	5.462	
3:38:11 PM	20.100	0.335	1.008	5.477	
3:38:12 PM	21.300	0.355	1.000	5.497	
3:38:13 PM	22.560	0.376	0.992	5.514	
3:38:15 PM	23.880	0.398	0.984	5.533	
3:38:16 PM	25.320	0.422	0.976	5.551	
3:38:18 PM	26.828	0.447	0.967	5.573	
3:38:19 PM	28.380	0.473	0.957	5.595	
3:38:21 PM	30.095	0.502	0.946	5.620	
3:38:23 PM	31.860	0.531	0.937	5.641	
3:38:25 PM	33.720	0.562	0.926	5.666	
3:38:27 PM	35.841	0.597	0.917	5.687	
3:38:29 PM	37.860	0.631	0.905	5.714	

Trex Properties, Charlotte NC: Data Logger Record for MW-1B Slug In Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Water Level Check (ft BTOC)
3:38:31 PM	40.080	0.668	0.894	5.740	
3:38:33 PM	42.480	0.708	0.882	5.769	
3:38:36 PM	45.125	0.752	0.869	5.798	
3:38:39 PM	47.640	0.794	0.857	5.827	
3:38:41 PM	50.461	0.841	0.844	5.855	
3:38:44 PM	53.461	0.891	0.830	5.889	
3:38:48 PM	56.640	0.944	0.815	5.923	
3:38:51 PM	60.137	1.002	0.801	5.956	
3:38:54 PM	63.600	1.060	0.786	5.989	
3:38:58 PM	67.200	1.120	0.772	6.023	
3:39:02 PM	71.400	1.190	0.756	6.059	
3:39:06 PM	75.600	1.260	0.740	6.096	
3:39:11 PM	79.800	1.330	0.725	6.131	
3:39:15 PM	84.600	1.410	0.710	6.167	
3:39:21 PM	90.176	1.503	0.692	6.208	
3:39:26 PM	94.800	1.580	0.678	6.239	
3:39:32 PM	100.800	1.680	0.662	6.275	
3:39:38 PM	106.800	1.780	0.645	6.316	
3:39:44 PM	112.800	1.880	0.631	6.349	
3:39:50 PM	119.400	1.990	0.617	6.380	
3:39:57 PM	126.600	2.110	0.600	6.418	
3:40:05 PM	134.400	2.240	0.586	6.452	
3:40:13 PM	142.200	2.370	0.572	6.484	
3:40:21 PM	150.600	2.510	0.558	6.518	
3:40:30 PM	159.600	2.660	0.544	6.548	
3:40:40 PM	169.200	2.820	0.533	6.574	
3:40:50 PM	178.800	2.980	0.521	6.602	6.37
3:41:00 PM	189.600	3.160	0.510	6.627	
3:41:12 PM	201.065	3.351	0.500	6.651	
3:41:24 PM	213.082	3.551	0.491	6.672	
3:41:36 PM	225.600	3.760	0.481	6.695	
3:41:50 PM	238.800	3.980	0.474	6.711	6.47
3:42:04 PM	253.260	4.221	0.466	6.728	
3:42:19 PM	268.200	4.470	0.459	6.745	
3:42:35 PM	283.800	4.730	0.454	6.756	
3:42:51 PM	300.600	5.010	0.450	6.766	6.69
3:43:09 PM	318.600	5.310	0.445	6.778	
3:43:28 PM	337.200	5.620	0.442	6.784	
3:43:48 PM	357.600	5.960	0.439	6.790	6.75
3:44:09 PM	378.600	6.310	0.438	6.792	6.77

Trex Properties, Charlotte NC: Data Logger Record for MW-1B Slug Out Test
W&R Project No. 03130430.01

Report Date:	42031
Report User Name:	Administrator
Report Computer Name:	WR1105

Log File Properties

File Name	MW-1B Out XD Data
Create Date	42051

Device Properties

Device	Level TROLL® 700
Site	Trex Property
Device Name	
Serial Number	127883
Firmware Version	2.07

Log Configuration

Log Name	MW-1B out
Created By	Administrator
Computer Name	WR1105
Application	WinSitu.exe
Application Version	5.6.1.8
Create Date	42031
Notes Size(bytes)	4096
Type	True Logarithmic
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop	No Stop Time
Max Interval	Days: 0 Hours: 00 Mins: 02 Secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Level Depth To Water
Specific Gravity	0.999
Level Reference Mode:	Set new reference
Level Reference Value:	6.79 (ft)
Level Reference Head Pressure	0.429034 (PSI)
Head Pressure	0.428285 (PSI)
Temperature	13.03 (C)
Depth of Probe	5 feet below SWL

Log Notes:

Date and Time	Note
1/27/2015 15:46	Manual Start Command
1/27/2015 15:54	Manual Stop Command

Log Data:

Record Count	99

Trex Properties, Charlotte NC: Data Logger Record for MW-1B Slug Out Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Wate Level Check (ft BTOC)
3:46:50 PM	0.000	0.000	-0.278	8.422	
3:46:51 PM	0.488	0.008	-0.274	8.414	
3:46:51 PM	0.708	0.012	-0.273	8.411	
3:46:51 PM	0.928	0.015	-0.273	8.410	
3:46:52 PM	1.148	0.019	-0.271	8.405	
3:46:52 PM	1.369	0.023	-0.269	8.401	
3:46:52 PM	1.593	0.027	-0.266	8.396	
3:46:52 PM	1.815	0.030	-0.265	8.393	
3:46:52 PM	2.039	0.034	-0.264	8.389	
3:46:53 PM	2.261	0.038	-0.262	8.386	
3:46:53 PM	2.723	0.045	-0.258	8.375	
3:46:53 PM	2.943	0.049	-0.256	8.372	
3:46:54 PM	3.164	0.053	-0.255	8.369	
3:46:54 PM	3.384	0.056	-0.253	8.366	
3:46:54 PM	3.605	0.060	-0.252	8.363	
3:46:54 PM	3.829	0.064	-0.251	8.359	
3:46:54 PM	4.051	0.068	-0.249	8.356	
3:46:55 PM	4.274	0.071	-0.247	8.351	
3:46:55 PM	4.496	0.075	-0.245	8.346	
3:46:55 PM	4.988	0.083	-0.241	8.336	
3:46:56 PM	5.209	0.087	-0.239	8.332	
3:46:56 PM	5.430	0.091	-0.238	8.330	
3:46:56 PM	5.649	0.094	-0.236	8.326	
3:46:56 PM	5.871	0.098	-0.234	8.322	
3:46:57 PM	6.097	0.102	-0.233	8.318	
3:46:57 PM	6.608	0.110	-0.227	8.305	
3:46:57 PM	6.830	0.114	-0.227	8.304	
3:46:58 PM	7.140	0.119	-0.225	8.300	
3:46:58 PM	7.790	0.130	-0.219	8.287	
3:46:58 PM	8.011	0.134	-0.217	8.281	
3:46:59 PM	8.460	0.141	-0.215	8.277	
3:46:59 PM	9.007	0.150	-0.211	8.267	
3:47:00 PM	9.480	0.158	-0.208	8.260	
3:47:01 PM	10.170	0.170	-0.203	8.248	
3:47:01 PM	10.680	0.178	-0.199	8.240	
3:47:02 PM	11.384	0.190	-0.193	8.226	
3:47:02 PM	11.940	0.199	-0.190	8.220	
3:47:03 PM	12.660	0.211	-0.183	8.204	
3:47:04 PM	13.440	0.224	-0.176	8.188	
3:47:05 PM	14.220	0.237	-0.175	8.184	
3:47:05 PM	15.060	0.251	-0.168	8.169	
3:47:06 PM	15.960	0.266	-0.162	8.154	
3:47:07 PM	16.920	0.282	-0.155	8.139	
3:47:08 PM	17.880	0.298	-0.149	8.125	
3:47:09 PM	18.960	0.316	-0.142	8.109	
3:47:11 PM	20.101	0.335	-0.134	8.090	
3:47:12 PM	21.301	0.355	-0.127	8.074	
3:47:13 PM	22.560	0.376	-0.119	8.056	
3:47:14 PM	23.880	0.398	-0.111	8.038	
3:47:16 PM	25.320	0.422	-0.102	8.016	
3:47:17 PM	26.820	0.447	-0.094	7.998	
3:47:19 PM	28.380	0.473	-0.084	7.974	

Trex Properties, Charlotte NC: Data Logger Record for MW-1B Slug Out Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Wate Level Check (ft BTOC)
3:47:20 PM	30.060	0.501	-0.075	7.953	
3:47:22 PM	31.860	0.531	-0.064	7.929	
3:47:24 PM	33.720	0.562	-0.054	7.906	
3:47:26 PM	35.763	0.596	-0.043	7.880	
3:47:28 PM	37.860	0.631	-0.031	7.852	
3:47:30 PM	40.080	0.668	-0.020	7.826	
3:47:33 PM	42.480	0.708	-0.008	7.800	
3:47:35 PM	45.000	0.750	0.004	7.771	
3:47:38 PM	47.779	0.796	0.017	7.740	
3:47:41 PM	50.532	0.842	0.031	7.710	
3:47:44 PM	53.535	0.892	0.044	7.680	
3:47:47 PM	56.802	0.947	0.058	7.646	
3:47:50 PM	60.000	1.000	0.072	7.615	7.74
3:47:54 PM	63.600	1.060	0.085	7.583	
3:47:58 PM	67.200	1.120	0.100	7.549	
3:48:02 PM	71.560	1.193	0.117	7.511	
3:48:06 PM	75.600	1.260	0.131	7.478	
3:48:10 PM	79.800	1.330	0.146	7.444	
3:48:15 PM	84.600	1.410	0.161	7.408	
3:48:20 PM	90.000	1.500	0.178	7.370	7.48
3:48:25 PM	94.800	1.580	0.191	7.339	
3:48:31 PM	100.800	1.680	0.208	7.300	
3:48:37 PM	106.800	1.780	0.223	7.265	
3:48:43 PM	112.800	1.880	0.237	7.233	
3:48:50 PM	119.400	1.990	0.251	7.201	7.28
3:48:57 PM	126.600	2.110	0.265	7.168	
3:49:05 PM	134.400	2.240	0.281	7.133	7.13
3:49:13 PM	142.200	2.370	0.293	7.104	
3:49:21 PM	150.600	2.510	0.306	7.075	
3:49:30 PM	159.600	2.660	0.318	7.046	
3:49:40 PM	169.215	2.820	0.330	7.018	
3:49:49 PM	178.800	2.980	0.341	6.993	7.04
3:50:00 PM	189.600	3.160	0.351	6.970	
3:50:11 PM	201.000	3.350	0.361	6.948	6.97
3:50:23 PM	213.013	3.550	0.368	6.930	
3:50:36 PM	225.600	3.760	0.377	6.910	
3:50:49 PM	238.800	3.980	0.384	6.893	6.92
3:51:04 PM	253.209	4.220	0.392	6.876	
3:51:19 PM	268.200	4.470	0.396	6.866	
3:51:34 PM	283.800	4.730	0.402	6.853	
3:51:51 PM	300.600	5.010	0.406	6.844	6.86
3:52:09 PM	318.600	5.310	0.410	6.835	
3:52:28 PM	337.200	5.620	0.412	6.829	
3:52:48 PM	357.600	5.960	0.415	6.823	6.84
3:53:09 PM	378.600	6.310	0.418	6.816	
3:53:31 PM	400.800	6.680	0.419	6.814	
3:53:55 PM	424.888	7.081	0.421	6.809	

Trex Properties, Charlotte NC: Data Logger Record for MW-10A Slug In Test
W&R Project No. 03130430.01

Report Date:	42031
Report User Name:	Administrator
Report Computer Name:	WR1105

Log File Properties

File Name	MW-10A In XD Data
Create Date	42051

Device Properties

Device	Level TROLL® 700
Site	Trex Property
Device Name	
Serial Number	127883
Firmware Version	2.07

Log Configuration

Log Name	MW-10A In
Created By	Administrator
Computer Name	WR1105
Application	WinSitu.exe
Application Version	5.6.1.8
Create Date	42031
Notes Size(bytes)	4096
Type	True Logarithmic
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop	No Stop Time
Max Interval	Days: 0 Hours: 00 Mins: 02 Secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Level Depth To Water
Specific Gravity	0.999
Level Reference Mode:	Set new reference
Level Reference Value:	7.61 (ft)
Level Reference Head Pressure	-0.0446911 (PSI)
Head Pressure	-0.0448985 (PSI)
Temperature	16.5231 (C)
Depth of Probe	5 feet below SWL

Log Notes:

Date and Time	Note
1/27/2015 12:49	Device Taken Offline
1/27/2015 12:49	User Note: "Pressure Zero - Offset: 2.13284(pounds per square inch)"
1/27/2015 12:49	Device Put Online
1/27/2015 12:51	Manual Start Command
1/27/2015 12:58	Manual Stop Command

Log Data:

Record Count	98

Trex Properties, Charlotte NC: Data Logger Record for MW-10A Slug In Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Wate Level Check (ft BTOC)
12:51:48 PM	0.000	0.000	0.413	6.553	
12:51:48 PM	0.250	0.004	0.497	6.358	
12:51:48 PM	0.500	0.008	0.487	6.382	
12:51:48 PM	0.750	0.013	0.484	6.390	
12:51:49 PM	1.000	0.017	0.484	6.388	
12:51:49 PM	1.250	0.021	0.468	6.426	
12:51:49 PM	1.500	0.025	0.293	6.831	
12:51:49 PM	1.750	0.029	0.610	6.099	
12:51:50 PM	2.000	0.033	0.419	6.539	
12:51:50 PM	2.250	0.038	0.463	6.437	
12:51:50 PM	2.500	0.042	0.597	6.128	
12:51:50 PM	2.750	0.046	0.379	6.632	
12:51:51 PM	3.000	0.050	0.434	6.504	
12:51:51 PM	3.250	0.054	0.399	6.585	
12:51:51 PM	3.500	0.058	0.426	6.523	
12:51:51 PM	3.750	0.063	0.372	6.648	
12:51:52 PM	4.000	0.067	0.415	6.550	
12:51:52 PM	4.250	0.071	0.436	6.500	
12:51:52 PM	4.500	0.075	0.507	6.337	
12:51:52 PM	4.750	0.079	0.453	6.462	
12:51:53 PM	5.043	0.084	0.431	6.513	
12:51:53 PM	5.264	0.088	0.506	6.339	
12:51:53 PM	5.500	0.092	0.354	6.689	
12:51:53 PM	5.753	0.096	0.396	6.592	
12:51:54 PM	6.000	0.100	0.255	6.919	
12:51:54 PM	6.360	0.106	0.414	6.552	
12:51:54 PM	6.720	0.112	0.450	6.468	
12:51:55 PM	7.140	0.119	0.280	6.860	
12:51:55 PM	7.560	0.126	0.397	6.590	
12:51:56 PM	7.980	0.133	0.381	6.627	
12:51:56 PM	8.461	0.141	0.431	6.512	
12:51:57 PM	9.000	0.150	0.424	6.528	
12:51:57 PM	9.518	0.159	0.365	6.663	
12:51:58 PM	10.080	0.168	0.326	6.754	
12:51:58 PM	10.680	0.178	0.331	6.743	
12:51:59 PM	11.280	0.188	0.352	6.693	
12:52:00 PM	11.940	0.199	0.348	6.704	
12:52:01 PM	12.963	0.216	0.337	6.728	
12:52:01 PM	13.440	0.224	0.330	6.744	
12:52:02 PM	14.220	0.237	0.324	6.759	
12:52:03 PM	15.342	0.256	0.317	6.776	
12:52:04 PM	15.960	0.266	0.310	6.790	
12:52:05 PM	16.920	0.282	0.303	6.808	
12:52:06 PM	17.880	0.298	0.297	6.821	
12:52:07 PM	18.960	0.316	0.288	6.842	
12:52:08 PM	20.100	0.335	0.279	6.862	
12:52:09 PM	21.300	0.355	0.270	6.884	
12:52:10 PM	22.598	0.377	0.262	6.902	
12:52:12 PM	23.880	0.398	0.253	6.923	
12:52:13 PM	25.320	0.422	0.244	6.943	
12:52:14 PM	26.820	0.447	0.235	6.965	
12:52:16 PM	28.380	0.473	0.227	6.983	
12:52:18 PM	30.060	0.501	0.217	7.006	6.980

Trex Properties, Charlotte NC: Data Logger Record for MW-10A Slug In Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Wate Level Check (ft BTOC)
12:52:19 PM	31.860	0.531	0.208	7.026	
12:52:21 PM	33.720	0.562	0.199	7.048	
12:52:23 PM	35.760	0.596	0.191	7.066	
12:52:25 PM	37.860	0.631	0.182	7.087	
12:52:28 PM	40.080	0.668	0.172	7.109	
12:52:30 PM	42.480	0.708	0.164	7.128	
12:52:33 PM	45.000	0.750	0.156	7.146	
12:52:35 PM	47.640	0.794	0.148	7.166	
12:52:38 PM	50.460	0.841	0.139	7.185	
12:52:41 PM	53.460	0.891	0.130	7.207	
12:52:44 PM	56.640	0.944	0.123	7.222	
12:52:48 PM	60.000	1.000	0.116	7.239	7.270
12:52:51 PM	63.600	1.060	0.109	7.256	
12:52:55 PM	67.200	1.120	0.102	7.271	
12:52:59 PM	71.400	1.190	0.095	7.287	
12:53:03 PM	75.620	1.260	0.090	7.299	
12:53:07 PM	79.800	1.330	0.084	7.313	
12:53:12 PM	84.632	1.411	0.079	7.324	
12:53:18 PM	90.000	1.500	0.073	7.338	7.400
12:53:22 PM	94.800	1.580	0.069	7.348	
12:53:28 PM	100.800	1.680	0.064	7.360	
12:53:34 PM	106.800	1.780	0.058	7.372	
12:53:40 PM	112.800	1.880	0.054	7.381	
12:53:47 PM	119.400	1.990	0.051	7.388	7.470
12:53:54 PM	126.690	2.112	0.049	7.393	
12:54:02 PM	134.400	2.240	0.045	7.403	
12:54:10 PM	142.244	2.371	0.042	7.409	
12:54:18 PM	150.722	2.512	0.039	7.416	7.510
12:54:27 PM	159.735	2.662	0.037	7.421	
12:54:37 PM	169.271	2.821	0.034	7.428	
12:54:46 PM	178.800	2.980	0.032	7.432	
12:54:57 PM	189.602	3.160	0.034	7.428	
12:55:09 PM	201.000	3.350	0.031	7.436	
12:55:21 PM	213.000	3.550	0.028	7.442	
12:55:33 PM	225.600	3.760	0.029	7.439	
12:55:46 PM	238.800	3.980	0.030	7.438	7.560
12:56:01 PM	253.385	4.223	0.030	7.437	
12:56:16 PM	268.216	4.470	0.028	7.442	
12:56:31 PM	283.800	4.730	0.025	7.449	
12:56:48 PM	300.600	5.010	0.024	7.451	7.580
12:57:06 PM	318.600	5.310	0.024	7.451	
12:57:25 PM	337.238	5.621	0.021	7.458	
12:57:45 PM	357.600	5.960	0.016	7.469	7.590
12:58:06 PM	378.600	6.310	0.017	7.468	
12:58:28 PM	400.800	6.680	0.017	7.467	

Trex Properties, Charlotte NC: Data Logger Record for MW-10A Slug Out Test
W&R Project No. 03130430.01

Report Date:	42031
Report User Name:	Administrator
Report Computer Name:	WR1105

Log File Properties

File Name	MW-10A Out XD Data
Create Date	42051

Device Properties

Device	Level TROLL® 700
Site	Trex Property
Device Name	
Serial Number	127883
Firmware Version	2.07

Log Configuration

Log Name	MW-10A Out
Created By	Administrator
Computer Name	WR1105
Application	WinSitu.exe
Application Version	5.6.1.8
Create Date	42031
Notes Size(bytes)	4096
Type	True Logarithmic
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop	No Stop Time
Max Interval	Days: 0 Hours: 00 Mins: 02 Secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Level Depth To Water
Specific Gravity	0.999
Level Reference Mode:	Set new reference
Level Reference Value:	7.61 (ft)
Level Reference Head Pressure	0.0128818 (PSI)
Head Pressure	0.0132985 (PSI)
Temperature	16.6693 (C)
Depth of Probe	5 feet below SWL

Log Notes:

Date and Time	Note
1/27/2015 13:01	Manual Start Command
1/27/2015 13:05	Manual Stop Command

Log Data:

Record Count	88

Trex Properties, Charlotte NC: Data Logger Record for MW-10A Slug Out Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Wate Level Check (ft BTOC)
1:01:46 PM	0.000	0.000	-0.495	8.782	
1:01:47 PM	0.251	0.004	-0.491	8.774	
1:01:47 PM	0.501	0.008	-0.487	8.765	
1:01:47 PM	0.751	0.013	-0.483	8.756	
1:01:47 PM	1.001	0.017	-0.479	8.745	
1:01:48 PM	1.251	0.021	-0.475	8.737	
1:01:48 PM	1.501	0.025	-0.472	8.729	
1:01:48 PM	1.751	0.029	-0.468	8.721	
1:01:48 PM	2.001	0.033	-0.464	8.710	
1:01:49 PM	2.251	0.038	-0.460	8.701	
1:01:49 PM	2.501	0.042	-0.456	8.692	
1:01:49 PM	2.751	0.046	-0.444	8.666	
1:01:49 PM	3.001	0.050	-0.447	8.671	
1:01:50 PM	3.251	0.054	-0.443	8.662	
1:01:50 PM	3.501	0.058	-0.442	8.660	
1:01:50 PM	3.751	0.063	-0.439	8.655	
1:01:50 PM	4.001	0.067	-0.435	8.645	
1:01:51 PM	4.251	0.071	-0.432	8.638	
1:01:51 PM	4.501	0.075	-0.429	8.630	
1:01:51 PM	4.751	0.079	-0.423	8.617	
1:01:51 PM	5.051	0.084	-0.421	8.611	
1:01:52 PM	5.276	0.088	-0.413	8.592	
1:01:52 PM	5.755	0.096	-0.411	8.589	
1:01:52 PM	5.977	0.100	-0.409	8.583	
1:01:53 PM	6.200	0.103	-0.405	8.575	
1:01:53 PM	6.422	0.107	-0.399	8.560	
1:01:53 PM	6.892	0.115	-0.397	8.557	
1:01:53 PM	7.140	0.119	-0.395	8.551	
1:01:54 PM	7.560	0.126	-0.390	8.540	
1:01:54 PM	7.980	0.133	-0.383	8.525	
1:01:55 PM	8.461	0.141	-0.378	8.512	
1:01:55 PM	9.000	0.150	-0.373	8.501	
1:01:56 PM	9.480	0.158	-0.367	8.486	
1:01:56 PM	10.080	0.168	-0.360	8.472	
1:01:57 PM	10.681	0.178	-0.353	8.454	
1:01:58 PM	11.280	0.188	-0.348	8.444	
1:01:58 PM	11.940	0.199	-0.340	8.426	
1:01:59 PM	12.962	0.216	-0.330	8.402	
1:02:00 PM	13.440	0.224	-0.326	8.393	
1:02:01 PM	14.220	0.237	-0.317	8.372	
1:02:02 PM	15.333	0.256	-0.307	8.348	
1:02:02 PM	15.960	0.266	-0.302	8.336	
1:02:03 PM	16.920	0.282	-0.294	8.318	
1:02:04 PM	17.880	0.298	-0.285	8.298	
1:02:05 PM	18.960	0.316	-0.278	8.281	
1:02:06 PM	20.100	0.335	-0.268	8.259	
1:02:08 PM	21.300	0.355	-0.260	8.239	
1:02:09 PM	22.611	0.377	-0.251	8.219	
1:02:10 PM	23.880	0.398	-0.242	8.198	
1:02:12 PM	25.320	0.422	-0.232	8.176	
1:02:13 PM	26.820	0.447	-0.222	8.152	
1:02:15 PM	28.498	0.475	-0.213	8.131	
1:02:16 PM	30.060	0.501	-0.204	8.111	8.250

Trex Properties, Charlotte NC: Data Logger Record for MW-10A Slug Out Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Wate Level Check (ft BTOC)
1:02:18 PM	31.860	0.531	-0.196	8.092	
1:02:20 PM	33.720	0.562	-0.185	8.066	
1:02:22 PM	35.760	0.596	-0.175	8.044	
1:02:24 PM	37.860	0.631	-0.167	8.024	
1:02:26 PM	40.080	0.668	-0.156	8.001	
1:02:29 PM	42.480	0.708	-0.146	7.978	
1:02:31 PM	45.000	0.750	-0.138	7.959	
1:02:34 PM	47.640	0.794	-0.129	7.937	
1:02:37 PM	50.460	0.841	-0.120	7.917	
1:02:40 PM	53.460	0.891	-0.111	7.897	
1:02:43 PM	56.640	0.944	-0.103	7.878	
1:02:46 PM	60.000	1.000	-0.096	7.860	7.900
1:02:50 PM	63.600	1.060	-0.087	7.840	
1:02:54 PM	67.289	1.121	-0.080	7.825	
1:02:58 PM	71.400	1.190	-0.072	7.805	
1:03:02 PM	75.600	1.260	-0.065	7.790	
1:03:06 PM	79.829	1.330	-0.059	7.776	
1:03:11 PM	84.600	1.410	-0.053	7.763	
1:03:16 PM	90.000	1.500	-0.045	7.743	7.750
1:03:21 PM	94.849	1.581	-0.040	7.732	
1:03:27 PM	100.858	1.681	-0.034	7.719	
1:03:33 PM	106.865	1.781	-0.030	7.709	
1:03:39 PM	112.874	1.881	-0.028	7.703	
1:03:46 PM	119.400	1.990	-0.025	7.698	7.690
1:03:53 PM	126.600	2.110	-0.021	7.689	
1:04:01 PM	134.400	2.240	-0.017	7.680	
1:04:09 PM	142.200	2.370	-0.015	7.674	
1:04:17 PM	150.600	2.510	-0.012	7.667	7.640
1:04:26 PM	159.600	2.660	-0.008	7.658	
1:04:36 PM	169.200	2.820	-0.005	7.652	
1:04:45 PM	178.964	2.983	-0.001	7.642	7.620
1:04:56 PM	189.600	3.160	0.001	7.637	
1:05:07 PM	201.000	3.350	0.002	7.635	
1:05:19 PM	213.000	3.550	0.004	7.632	
1:05:32 PM	225.648	3.761	0.002	7.635	

Trex Properties, Charlotte NC: Data Logger Record for MW-10B Slug In Test
W&R Project No. 03130430.01

Report Date:	42031
Report User Name:	Administrator
Report Computer Name:	WR1105

Log File Properties

File Name	MW-10B In XD Data
Create Date	42051

Device Properties

Device	Level TROLL® 700
Site	Trex Property
Device Name	
Serial Number	127883
Firmware Version	2.07

Log Configuration

Log Name	MW-10B In
Created By	Administrator
Computer Name	WR1105
Application	WinSitu.exe
Application Version	5.6.1.8
Create Date	42031
Notes Size(bytes)	4096
Type	True Logarithmic
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop	No Stop Time
Max Interval	Days: 0 Hours: 00 Mins: 02 Secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Level Depth To Water
Specific Gravity	0.999
Level Reference Mode:	Set new reference
Level Reference Value:	7.44 (ft)
Level Reference Head Pressure	-0.00257301 (PSI)
Head Pressure	-0.00192165 (PSI)
Temperature	16.9392 (C)
Depth of Probe	5 feet below SWL

Log Notes:

Date and Time	Note
1/27/2015 12:02	Device Taken Offline
1/27/2015 12:02	User Note: "Pressure Zero - Offset: 2.18095(pounds per square inch)"
1/27/2015 12:03	Device Put Online
1/27/2015 12:09	Manual Start Command
1/27/2015 12:22	Manual Stop Command

Log Data:

Record Count	109

Trex Properties, Charlotte NC: Data Logger Record for MW-10B Slug In Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Wate Level Check (ft BTOC)
12:09:33 PM	0.000	0.000	0.002	7.428	
12:09:33 PM	0.250	0.004	0.003	7.428	
12:09:33 PM	0.500	0.008	0.002	7.429	
12:09:33 PM	0.750	0.013	0.002	7.430	
12:09:34 PM	1.000	0.017	0.002	7.429	
12:09:34 PM	1.250	0.021	0.002	7.430	
12:09:34 PM	1.500	0.025	0.001	7.431	
12:09:34 PM	1.750	0.029	0.002	7.429	
12:09:35 PM	2.000	0.033	0.001	7.432	
12:09:35 PM	2.250	0.038	0.001	7.432	
12:09:35 PM	2.500	0.042	0.001	7.432	
12:09:35 PM	2.750	0.046	0.001	7.431	
12:09:36 PM	3.000	0.050	0.001	7.431	
12:09:36 PM	3.250	0.054	0.002	7.430	
12:09:36 PM	3.500	0.058	0.001	7.431	
12:09:36 PM	3.750	0.063	0.001	7.432	
12:09:37 PM	4.000	0.067	0.002	7.429	
12:09:37 PM	4.289	0.071	0.001	7.431	
12:09:37 PM	4.509	0.075	0.001	7.432	
12:09:37 PM	4.750	0.079	0.001	7.431	
12:09:38 PM	5.000	0.083	0.001	7.433	
12:09:38 PM	5.250	0.088	0.001	7.432	
12:09:38 PM	5.500	0.092	0.001	7.433	
12:09:38 PM	5.750	0.096	0.000	7.433	
12:09:39 PM	6.000	0.100	0.000	7.435	
12:09:39 PM	6.360	0.106	0.000	7.434	
12:09:39 PM	6.720	0.112	0.001	7.433	
12:09:40 PM	7.140	0.119	0.001	7.432	
12:09:40 PM	7.644	0.127	0.001	7.432	
12:09:41 PM	7.980	0.133	0.001	7.431	
12:09:41 PM	8.460	0.141	0.002	7.430	
12:09:42 PM	9.000	0.150	0.001	7.432	
12:09:42 PM	9.480	0.158	0.001	7.433	
12:09:43 PM	10.080	0.168	0.001	7.433	
12:09:43 PM	10.680	0.178	0.006	7.419	
12:09:44 PM	11.280	0.188	0.001	7.432	
12:09:45 PM	12.233	0.204	0.001	7.432	
12:09:45 PM	12.660	0.211	0.001	7.432	
12:09:46 PM	13.440	0.224	0.001	7.431	
12:09:47 PM	14.220	0.237	0.003	7.428	
12:09:48 PM	15.060	0.251	0.001	7.433	
12:09:49 PM	15.960	0.266	0.001	7.432	
12:09:50 PM	17.014	0.284	0.002	7.431	
12:09:51 PM	18.085	0.301	0.002	7.430	
12:09:52 PM	18.960	0.316	0.000	7.433	
12:09:53 PM	20.100	0.335	0.001	7.432	
12:09:54 PM	21.300	0.355	0.001	7.433	
12:09:55 PM	22.560	0.376	0.002	7.429	
12:09:56 PM	23.880	0.398	0.175	7.031	
12:09:58 PM	25.320	0.422	0.882	5.398	
12:09:59 PM	26.820	0.447	0.478	6.330	
12:10:01 PM	28.380	0.473	0.524	6.223	

Trex Properties, Charlotte NC: Data Logger Record for MW-10B Slug In Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Wate Level Check (ft BTOC)
12:10:03 PM	30.060	0.501	0.512	6.253	
12:10:04 PM	31.860	0.531	0.259	6.836	
12:10:06 PM	33.720	0.562	0.254	6.847	
12:10:08 PM	35.760	0.596	0.025	7.375	
12:10:11 PM	37.990	0.633	0.263	6.826	
12:10:13 PM	40.080	0.668	0.236	6.890	
12:10:15 PM	42.480	0.708	0.221	6.923	
12:10:18 PM	45.000	0.750	0.217	6.934	
12:10:20 PM	47.640	0.794	0.169	7.043	
12:10:23 PM	50.460	0.841	0.156	7.073	
12:10:26 PM	53.460	0.891	0.140	7.110	
12:10:29 PM	56.640	0.944	0.175	7.030	
12:10:33 PM	60.000	1.000	0.159	7.067	
12:10:36 PM	63.600	1.060	0.101	7.200	
12:10:40 PM	67.250	1.121	0.091	7.224	
12:10:44 PM	71.400	1.190	0.083	7.243	
12:10:48 PM	75.600	1.260	0.074	7.263	
12:10:52 PM	79.800	1.330	0.067	7.279	
12:10:57 PM	84.600	1.410	0.060	7.296	
12:11:03 PM	90.000	1.500	0.053	7.312	
12:11:07 PM	94.810	1.580	0.049	7.322	
12:11:13 PM	100.819	1.680	0.044	7.333	
12:11:19 PM	106.826	1.780	0.040	7.341	
12:11:25 PM	112.835	1.881	0.037	7.350	
12:11:32 PM	119.400	1.990	0.034	7.356	
12:11:39 PM	126.600	2.110	0.031	7.363	
12:11:47 PM	134.400	2.240	0.027	7.371	
12:11:55 PM	142.200	2.370	0.025	7.376	
12:12:03 PM	150.600	2.510	0.024	7.379	
12:12:12 PM	159.600	2.660	0.022	7.382	
12:12:22 PM	169.200	2.820	0.018	7.392	
12:12:31 PM	178.924	2.982	0.018	7.392	
12:12:42 PM	189.599	3.160	0.017	7.394	
12:12:54 PM	201.000	3.350	0.014	7.401	
12:13:06 PM	213.000	3.550	0.015	7.400	
12:13:18 PM	225.599	3.760	0.014	7.403	
12:13:32 PM	239.007	3.983	0.013	7.404	
12:13:46 PM	253.200	4.220	0.013	7.403	
12:14:01 PM	268.200	4.470	0.014	7.402	
12:14:16 PM	283.806	4.730	0.010	7.411	
12:14:33 PM	300.599	5.010	0.008	7.415	
12:14:51 PM	318.599	5.310	0.009	7.413	
12:15:10 PM	337.200	5.620	0.009	7.414	
12:15:30 PM	357.599	5.960	0.008	7.415	
12:15:51 PM	378.599	6.310	0.010	7.412	
12:16:14 PM	400.966	6.683	0.009	7.412	
12:16:38 PM	424.997	7.083	0.008	7.414	
12:17:03 PM	450.000	7.500	0.008	7.415	
12:17:29 PM	476.400	7.940	0.008	7.416	
12:17:57 PM	504.599	8.410	0.010	7.411	
12:18:27 PM	534.599	8.910	0.011	7.409	
12:18:59 PM	566.451	9.441	0.007	7.419	

Trex Properties, Charlotte NC: Data Logger Record for MW-10B Slug In Test
W&R Project No. 03130430.01

	Elapsed Time		Sensor: Pres 15G SN#: 127883	Sensor: Pres 15G SN#: 127883	Manual Wate Level Check
Clock Time	Seconds	Minutes	Pressure (PSI)	Level Depth To Water (ft)	(ft BTOC)
12:19:33 PM	599.999	10.000	0.008	7.415	
12:20:09 PM	635.999	10.600	0.005	7.424	
12:20:45 PM	672.075	11.201	0.006	7.420	
12:21:27 PM	714.133	11.902	0.006	7.419	7.42
12:22:09 PM	755.999	12.600	0.011	7.409	

Trex Properties, Charlotte NC: Data Logger Record for MW-10B Slug Out Test
W&R Project No. 03130430.01

Report Date:	42031
Report User Name:	Administrator
Report Computer Name:	WR1105

Log File Properties

File Name	MW-10B Out XD Data
Create Date	42051

Device Properties

Device	Level TROLL® 700
Site	Trex Property
Device Name	
Serial Number	127883
Firmware Version	2.07

Log Configuration

Log Name	MW-10B Out
Created By	Administrator
Computer Name	WR1105
Application	WinSitu.exe
Application Version	5.6.1.8
Create Date	42031
Notes Size(bytes)	4096
Type	True Logarithmic
Overwrite when full	Disabled
Scheduled Start Time	Manual Start
Scheduled Stop	No Stop Time
Max Interval	Days: 0 Hours: 00 Mins: 02 Secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode	Level Depth To Water
Specific Gravity	0.999
Level Reference Mode:	Set new reference
Level Reference Value:	7.44 (ft)
Level Reference Head Pressure	0.00378942 (PSI)
Head Pressure	0.00409889 (PSI)
Temperature	16.7535 (C)
Depth of Probe	5 feet below SWL

Log Notes:

Date and Time	Note
1/27/2015 12:28	Manual Start Command
1/27/2015 12:37	Manual Stop Command

Log Data:

Record Count	102

Trex Properties, Charlotte NC: Data Logger Record for MW-10B Slug Out Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Water Level Check (ft BTOC)
12:28:44 PM	0.000	0.000	-0.312	8.169	
12:28:45 PM	0.491	0.008	-0.302	8.146	
12:28:45 PM	0.712	0.012	-0.299	8.139	
12:28:45 PM	0.933	0.016	-0.296	8.132	
12:28:45 PM	1.153	0.019	-0.293	8.125	
12:28:45 PM	1.375	0.023	-0.289	8.116	
12:28:46 PM	1.600	0.027	-0.285	8.108	
12:28:46 PM	1.822	0.030	-0.282	8.101	
12:28:46 PM	2.046	0.034	-0.279	8.093	
12:28:46 PM	2.269	0.038	-0.276	8.086	
12:28:47 PM	2.750	0.046	-0.269	8.069	
12:28:47 PM	2.971	0.050	-0.265	8.060	
12:28:47 PM	3.192	0.053	-0.263	8.057	
12:28:47 PM	3.412	0.057	-0.261	8.051	
12:28:48 PM	3.634	0.061	-0.258	8.044	
12:28:48 PM	3.858	0.064	-0.255	8.036	
12:28:48 PM	4.081	0.068	-0.252	8.030	
12:28:48 PM	4.304	0.072	-0.249	8.025	
12:28:49 PM	4.527	0.075	-0.246	8.017	
12:28:49 PM	4.750	0.079	-0.243	8.011	
12:28:49 PM	5.240	0.087	-0.237	7.996	
12:28:49 PM	5.461	0.091	-0.235	7.990	
12:28:50 PM	5.682	0.095	-0.233	7.988	
12:28:50 PM	5.903	0.098	-0.231	7.982	
12:28:50 PM	6.126	0.102	-0.228	7.974	
12:28:51 PM	6.644	0.111	-0.223	7.963	
12:28:51 PM	6.867	0.114	-0.220	7.956	
12:28:51 PM	7.141	0.119	-0.218	7.952	
12:28:52 PM	7.827	0.130	-0.210	7.934	
12:28:52 PM	8.050	0.134	-0.208	7.929	
12:28:52 PM	8.461	0.141	-0.206	7.924	
12:28:53 PM	9.011	0.150	-0.200	7.911	
12:28:54 PM	9.480	0.158	-0.197	7.903	
12:28:54 PM	10.188	0.170	-0.192	7.891	
12:28:55 PM	10.681	0.178	-0.187	7.882	
12:28:55 PM	11.400	0.190	-0.181	7.868	
12:28:56 PM	11.940	0.199	-0.178	7.860	
12:28:57 PM	12.660	0.211	-0.173	7.848	
12:28:57 PM	13.440	0.224	-0.168	7.836	
12:28:58 PM	14.220	0.237	-0.163	7.825	
12:28:59 PM	15.060	0.251	-0.158	7.814	
12:29:00 PM	15.960	0.266	-0.148	7.791	
12:29:01 PM	16.920	0.282	-0.147	7.788	
12:29:02 PM	17.880	0.298	-0.143	7.778	
12:29:03 PM	18.960	0.316	-0.136	7.763	
12:29:04 PM	20.101	0.335	-0.131	7.751	
12:29:05 PM	21.300	0.355	-0.125	7.738	
12:29:07 PM	22.562	0.376	-0.121	7.727	
12:29:08 PM	23.880	0.398	-0.115	7.714	
12:29:09 PM	25.320	0.422	-0.110	7.702	
12:29:11 PM	26.820	0.447	-0.104	7.689	
12:29:12 PM	28.380	0.473	-0.100	7.680	
12:29:14 PM	30.060	0.501	-0.093	7.664	
12:29:16 PM	31.860	0.531	-0.090	7.657	
12:29:18 PM	33.837	0.564	-0.086	7.646	
12:29:20 PM	35.760	0.596	-0.081	7.636	7.70
12:29:22 PM	37.860	0.631	-0.077	7.626	

Trex Properties, Charlotte NC: Data Logger Record for MW-10B Slug Out Test
W&R Project No. 03130430.01

Clock Time	Elapsed Time Seconds	Elapsed Time Minutes	Sensor: Pres 15G SN#: 127883 Pressure (PSI)	Sensor: Pres 15G SN#: 127883 Level Depth To Water (ft)	Manual Water Level Check (ft BTOC)
12:29:24 PM	40.080	0.668	-0.071	7.614	
12:29:27 PM	42.578	0.710	-0.067	7.603	
12:29:29 PM	45.000	0.750	-0.062	7.593	
12:29:32 PM	47.640	0.794	-0.059	7.585	
12:29:34 PM	50.460	0.841	-0.055	7.575	
12:29:37 PM	53.460	0.891	-0.051	7.567	
12:29:41 PM	56.640	0.944	-0.047	7.558	
12:29:44 PM	60.000	1.000	-0.045	7.552	7.59
12:29:48 PM	63.606	1.060	-0.041	7.544	
12:29:51 PM	67.200	1.120	-0.040	7.541	
12:29:55 PM	71.400	1.190	-0.036	7.532	
12:30:00 PM	75.623	1.260	-0.033	7.526	
12:30:04 PM	79.800	1.330	-0.030	7.519	
12:30:09 PM	84.635	1.411	-0.029	7.515	
12:30:14 PM	90.000	1.500	-0.025	7.508	7.51
12:30:19 PM	94.800	1.580	-0.024	7.503	
12:30:25 PM	100.800	1.680	-0.022	7.499	
12:30:31 PM	106.800	1.780	-0.020	7.496	
12:30:37 PM	112.800	1.880	-0.018	7.490	
12:30:43 PM	119.400	1.990	-0.018	7.490	7.49
12:30:51 PM	126.702	2.112	-0.016	7.486	
12:30:58 PM	134.400	2.240	-0.015	7.484	
12:31:06 PM	142.200	2.370	-0.015	7.484	
12:31:15 PM	150.736	2.512	-0.012	7.477	
12:31:24 PM	159.747	2.662	-0.011	7.474	
12:31:33 PM	169.200	2.820	-0.011	7.475	
12:31:43 PM	178.800	2.980	-0.009	7.470	
12:31:54 PM	189.787	3.163	-0.008	7.468	
12:32:05 PM	201.000	3.350	-0.006	7.462	7.46
12:32:17 PM	213.000	3.550	-0.005	7.461	
12:32:30 PM	225.600	3.760	-0.004	7.459	
12:32:43 PM	238.800	3.980	-0.005	7.459	
12:32:57 PM	253.200	4.220	-0.004	7.459	
12:33:12 PM	268.377	4.473	-0.005	7.460	
12:33:28 PM	283.800	4.730	-0.004	7.459	
12:33:45 PM	300.677	5.011	-0.003	7.457	7.45
12:34:03 PM	318.702	5.312	-0.003	7.455	
12:34:21 PM	337.250	5.621	-0.001	7.450	
12:34:42 PM	357.600	5.960	-0.003	7.455	
12:35:03 PM	378.601	6.310	-0.002	7.454	
12:35:25 PM	400.800	6.680	-0.002	7.454	
12:35:49 PM	424.800	7.080	-0.002	7.453	
12:36:14 PM	450.000	7.500	-0.001	7.450	
12:36:40 PM	476.400	7.940	-0.001	7.451	
12:37:09 PM	504.600	8.410	0.001	7.447	

WITHERS & RAVENEL

ENGINEERS | PLANNERS | SURVEYORS

WATER-LEVEL RECOVERY TEST DATA FORM
(For Manual Readings)

Date: 1/27/15
Tested by: BELLS/FAY
Project Name: TROY
Project Number: 031204430.01

Well ID: MW-10B
Pre-Test Static WL BTOC: 7.44
Well Depth BTOC: 73
Screen Depth BTOC: 68-73

Clock Time (Military)	Elapsed Time (Hrs:Min:Sec)	Elapsed Time (If different)	WL (ft BTOC)	WL Change (WL-SWL)
1230hrs	Start of test	Seconds		
	0:00:15	35	7.70	
	0:00:30	60	7.59	
	0:00:45	90	7.51	
1232	2min 0:01:00	120	7.49	
	0:01:15	3:30	7.46	
	0:01:30	5:00	7.45	
	0:01:45		EOT.	
	0:02:00			
	0:02:30			
	0:03:00			
	0:03:30			
	0:04:00			
	0:04:30			
	0:05:00			
	0:06:00			
	0:07:00			
	0:08:00			
	0:09:00			
	0:10:00			
	0:12:00			
	0:14:00			
	0:16:00			
	0:18:00			
	0:20:00			
	0:25:00			
	0:30:00			
	0:40:00			
	0:50:00			
	1:00:00			
	2:00:00			
	3:00:00			
	4:00:00			
	5:00:00			
	6:00:00			

Test Type (Slug-in/out or Rec): Slug out
WL Meter Type/SN: Solinst 347961
Weather: Sunny, Cold

Comments:

WITHERS & RAVENEL

ENGINEERS | PLANNERS | SURVEYORS

WATER-LEVEL RECOVERY TEST DATA FORM
(For Manual Readings)

Date: 1/27/15 Well ID: PMW-10A
Tested by: BORIS/FAY Pre-Test Static WL BTOC: 7.61
Project Name: TPCK Well Depth BTOC: 63'
Project Number: 03130430.01 Screen Depth BTOC: 53-63'

Clock Time (Military)	Elapsed Time (Hrs:Min:Sec)	Elapsed Time (If different)	WL (ft BTOC)	WL Change (WL-SWL)
12:50	Start of test	Sec		
	0:00:15	30	6.98	
	0:00:30	60	7.27	
	0:00:45	90	7.40	
	0:01:00	120	7.47	
	0:01:15	150	7.51	
	0:01:30	180	7.53	
	0:01:45	4min	7.56	
	0:02:00	5min	7.58	
	0:02:30	6min	7.59	
	0:03:00			
	0:03:30		E.O.T	
	0:04:00			
	0:04:30			
	0:05:00			
	0:06:00			
	0:07:00			
	0:08:00			
	0:09:00			
	0:10:00			
	0:12:00			
	0:14:00			
	0:16:00			
	0:18:00			
	0:20:00			
	0:25:00			
	0:30:00			
	0:40:00			
	0:50:00			
	1:00:00			
	2:00:00			
	3:00:00			
	4:00:00			
	5:00:00			
	6:00:00			

Test Type (Slug-in/out or Rec): Slug In Comments:
WL Meter Type/SN: Solinst 247961
Weather: Snowy Cold

WITHERS & RAVENEL

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WATER-LEVEL RECOVERY TEST DATA FORM
(For Manual Readings)

Date: 1/27/15 Well ID: PMW-10A
Tested by: BRUS/FAY Pre-Test Static WL BTOC: 7.61
Project Name: TREX Well Depth BTOC: 63'
Project Number: 03130430.01 Screen Depth BTOC: 53-63'

Clock Time (Military)	Elapsed Time (Hrs:Min:Sec)	Elapsed Time (If different)	WL (ft BTOC)	WL Change (WL-SWL)
1301	Start of test			
	0:00:15	30	8.25	
	0:00:30	60	7.90	
	0:00:45	90	7.75	
	0:01:00	120	7.69	
	0:01:15	150	7.64	
	0:01:30	180	7.62	
	0:01:45			
	0:02:00		E.O.T	
	0:02:30			
	0:03:00			
	0:03:30			
	0:04:00			
	0:04:30			
	0:05:00			
	0:06:00			
	0:07:00			
	0:08:00			
	0:09:00			
	0:10:00			
	0:12:00			
	0:14:00			
	0:16:00			
	0:18:00			
	0:20:00			
	0:25:00			
	0:30:00			
	0:40:00			
	0:50:00			
	1:00:00			
	2:00:00			
	3:00:00			
	4:00:00			
	5:00:00			
	6:00:00			

Test Type (Slug-in/out or Rec): Slug Out Comments:
WL Meter Type/SN Solinst 247961
Weather: Sunny Cold

WITHERS & RAVENEL

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WATER-LEVEL RECOVERY TEST DATA FORM
(For Manual Readings)

Date: 1/27/15
Tested by: Bullis/Fay
Project Name: TRCX
Project Number: 03130480.01

Well ID: PMW-13B
Pre-Test Static WL BTOC: 8.61
Well Depth BTOC: 103'
Screen Depth BTOC: 98-103

Clock Time (Military)	Elapsed Time (Hrs:Min:Sec)	Elapsed Time (If different)	WL (ft BTOC)	WL Change (WL-SWL)
1400 hrs	Start of test			
	0:00:15		6.96	
	0:00:30		6.97	
	0:00:45		6.99	
	0:01:00		7.00	
	0:01:15		7.01	
	0:01:30		7.01	
	~~0:01:45~~		—	
	0:02:00		7.03	
	0:02:30		7.05	
	0:03:00		7.06	
	0:03:30		7.08	
	0:04:00		7.09	
	0:04:30		7.10	
	0:05:00		7.12	
	0:06:00		7.15	
	0:07:00		7.19	
	0:08:00		7.22	
	0:09:00		7.25	
	0:10:00		7.28	
	0:12:00		7.33	
	0:14:00		7.39	
	0:16:00		7.43	
	0:18:00		7.49	
	0:20:00		7.52	
	0:25:00		7.62	
	0:30:00		7.72	
	0:40:00		7.89	
	0:50:00		8.03	
	1:00:00		8.15	
	2:00:00	1:30:00	8.39	
	3:00:00	~~2:00:00~~	8.50	
	4:00:00	1:58:00	E.O.T.	
	5:00:00			
	6:00:00			

Test Type (Slug-in/out or Rec): Slug-In
WL Meter Type/SN Solinst 242961
Weather: Sunny Cool

Comments:

WITHERS & RAVENEL

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WATER-LEVEL RECOVERY TEST DATA FORM
(For Manual Readings)

Date: 1/27/15
Tested by: Brouis/Fay
Project Name: TRSW
Project Number: 03130430.01

Well ID: PMW-1A
Pre-Test Static WL BTOC: 6.70
Well Depth BTOC: 12' BG 15.83 BTOC
Screen Depth BTOC: 7-12' BG

Clock Time (Military)	Elapsed Time (Hrs:Min:Sec)	Elapsed Time (If different)	WL (ft BTOC)	WL Change (WL-SWL)
	Start of test			
	0:00:15			
	0:00:30	~3min	6.72	Slug out test see computer file
	0:00:45			
	0:01:00	E.O.T		
	0:01:15			
	0:01:30	START SLUG IN @ 15:15hrs		
	0:01:45	@1min	6.55	
	0:02:00	1:30	6.61	
	0:02:30	2:00	6.63	
	0:03:00	2:30	6:64	
	0:03:30	3:00	6:65	
	0:04:00	3:30	6:65	
	0:04:30		E.O.T.	
	0:05:00			
	0:06:00			
	0:07:00			
	0:08:00			
	0:09:00			
	0:10:00			
	0:12:00			
	0:14:00			
	0:16:00			
	0:18:00			
	0:20:00			
	0:25:00			
	0:30:00			
	0:40:00			
	0:50:00			
	1:00:00			
	2:00:00			
	3:00:00			
	4:00:00			
	5:00:00			
	6:00:00			

Test Type (Slug-in/out or Rec): Slug out Then Slug in
WL Meter Type/SN Solinst 247961
Weather: Sunny Cold

Comments:

WITHERS & RAVENEL

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WATER-LEVEL RECOVERY TEST DATA FORM
(For Manual Readings)

Date: 1/27/15
Tested by: Burris/Fay
Project Name: TROY
Project Number: 03130430.01

Well ID: PMW-13D
Pre-Test Static WL BTOC: 8.61
Well Depth BTOC: 103'
Screen Depth BTOC: 98-103'

Clock Time (Military)	Elapsed Time (Hrs:Min:Sec)	Elapsed Time (If different)	WL (ft BTOC)	WL Change (WL-SWL)
16:00	Start of test	Sec	~~10.21~~	
	0:00:15	~~30~~ 15	10.21	
	0:00:30	30	10.20	
	0:00:45		10.19	
	0:01:00	1:00	10.19	
	0:01:15		10.18	
	0:01:30	1:30	10.17	
	0:01:45		10.17	
	0:02:00		10.16	
	0:02:30		10.15	
	0:03:00		10.15	
	0:03:30	3:30	10.14	
	0:04:00		10.13	
	0:04:30		10.12	
	0:05:00	5:00	10.11	
	0:06:00		10.10	
	0:07:00		10.09	
	0:08:00		10.07	
	0:09:00		10.05	
	0:10:00		10.03	
	0:12:00		10.00	
	0:14:00	14:00	9.96	
	0:16:00		9.92	
	0:18:00		9.89	
	0:20:00		9.85	
	0:25:00		9.81	
	0:30:00		9.73	
	0:40:00		9.61	
	0:50:00		9.51	
	1:00:00		9.42	
	2:00:00	1:30:00	9.19	
	3:00:00			
	4:00:00		E.O.T.	
	5:00:00			
	6:00:00			

Test Type (Slug-in/out or Rec): Slug Out
WL Meter Type/SN: Solinst 247961
Weather: Sunny, Cold

Comments:

Appendix I

Hydraulic Conductivity Calculations

Updated Draft Phase III RFI Report for

3114 & 3124 Cullman Avenue, Charlotte NC

EPA ID # NCD 049 773 245

Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-1A (in)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Slug In	Checked/date:	Bellis 2/17/15

WELL DATA

SWL =	6.70	(ft BTOC)
WD =	15.33	(ft BTOC)
WD =	12.00	(ft BGS)
DTSP =	8.33	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	7	(ft)
Lw =	8.63	(ft)
Le/rw =	21.21	
H =	50.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	1.120	(ft) from plot
yt =	0.420	(ft) from plot
t =	0.335	(minutes) from plot
ln(Re/rw) =	1.96	
K =	**4.2E+00**	**(ft/day)**
K =	**1.5E-03**	**(cm/sec)**

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 1.96

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 2.38

Calculation of Coefficients

Value range for Le/rw from Table of Coefficients

Le/rw	A	B	C
20	2.23	0.29	1.75
30	2.5	0.35	2.1

Interpolated values of A, B and C for Le/rw

21.21	2.26	0.30	1.79

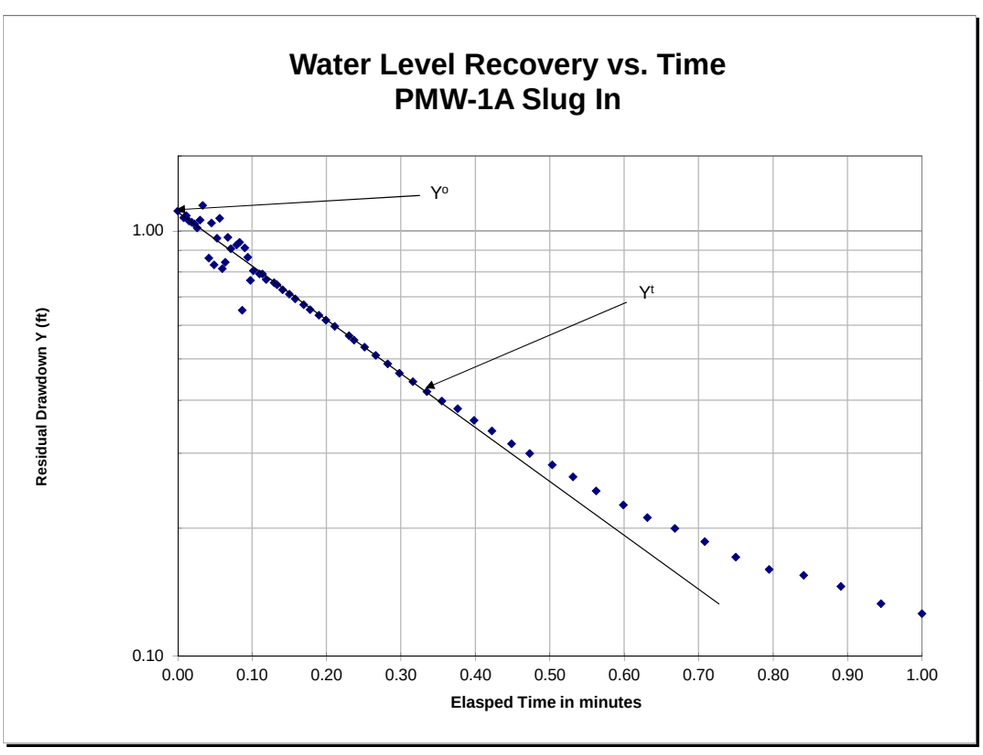
Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90

Reference: Bouwer(1989), Bouwer and Rice(1976)

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.000	0.05	1.12	5.585
0.008	0.03	1.08	5.625
0.012	0.04	1.09	5.614
0.015	0.02	1.06	5.644
0.019	0.02	1.05	5.653
0.023	0.02	1.04	5.660
0.026	0.01	1.02	5.684
0.030	0.03	1.06	5.639
0.034	0.06	1.15	5.551
0.042	-0.06	0.86	5.836
0.045	0.02	1.04	5.656
0.049	-0.08	0.83	5.868
0.053	-0.02	0.96	5.738
0.056	0.03	1.07	5.628
0.060	-0.09	0.82	5.884
0.064	-0.07	0.85	5.855
0.067	-0.01	0.97	5.733
0.071	-0.04	0.91	5.792
0.079	-0.03	0.93	5.773
0.083	-0.03	0.94	5.760
0.087	-0.19	0.65	6.049
0.090	-0.04	0.91	5.787
0.094	-0.06	0.87	5.833
0.098	-0.12	0.77	5.934
0.102	-0.09	0.81	5.894
0.110	-0.10	0.79	5.907
0.114	-0.10	0.79	5.907
0.119	-0.11	0.77	5.931
0.130	-0.12	0.76	5.944
0.133	-0.13	0.75	5.953
0.141	-0.14	0.73	5.972
0.150	-0.15	0.71	5.989
0.158	-0.16	0.69	6.007
0.169	-0.17	0.67	6.029
0.178	-0.19	0.65	6.047
0.190	-0.20	0.63	6.066
0.199	-0.21	0.62	6.083
0.211	-0.22	0.60	6.103
0.230	-0.25	0.57	6.133
0.237	-0.26	0.55	6.146
0.251	-0.27	0.53	6.167
0.266	-0.29	0.51	6.190
0.282	-0.31	0.49	6.213
0.298	-0.33	0.46	6.237
0.316	-0.35	0.44	6.258
0.335	-0.38	0.42	6.281
0.355	-0.40	0.40	6.302
0.376	-0.42	0.38	6.318
0.398	-0.44	0.36	6.341
0.422	-0.47	0.34	6.361
0.449	-0.50	0.32	6.384
0.473	-0.52	0.30	6.400
0.503	-0.55	0.28	6.418
0.531	-0.58	0.26	6.436
0.562	-0.61	0.25	6.455
0.599	-0.64	0.23	6.473
0.631	-0.67	0.21	6.488
0.668	-0.70	0.20	6.500
0.708	-0.73	0.19	6.514
0.750	-0.77	0.17	6.529
0.795	-0.80	0.16	6.540
0.841	-0.81	0.16	6.545
0.891	-0.84	0.15	6.554
0.945	-0.88	0.13	6.567
1.000	-0.90	0.13	6.574
1.060	-0.92	0.12	6.580
1.120	-0.94	0.11	6.586
1.190	-0.95	0.11	6.589
1.260	-0.98	0.11	6.595
1.330	-1.00	0.10	6.600
1.410	-1.02	0.10	6.604
1.500	-1.03	0.09	6.606
1.580	-1.05	0.09	6.610
1.680	-1.04	0.09	6.609
1.780	-1.07	0.09	6.614
1.880	-1.08	0.08	6.616
1.990	-1.08	0.08	6.617
2.110	-1.10	0.08	6.620
2.240	-1.10	0.08	6.621



Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-1A (out)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Recovery	Checked/date:	Bellis 2/17/15

WELL DATA

SWL =	6.70	(ft BTOC)
WD =	15.33	(ft BTOC)
WD =	12.00	(ft BGS)
DTSP =	8.33	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	7	(ft)
Lw =	8.63	(ft)
Le/rw =	21.21	
H =	50.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	0.964	(ft) from plot
yt =	0.291	(ft) from plot
t =	0.398	(minutes) from plot
ln(Re/rw) =	1.96	
K =	**4.3E+00**	**(ft/day)**
K =	**1.5E-03**	**(cm/sec)**

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.000	-0.02	0.964	7.664
0.008	-0.03	0.940	7.640
0.011	-0.03	0.931	7.631
0.015	-0.04	0.921	7.621
0.019	-0.04	0.911	7.611
0.022	-0.05	0.900	7.600
0.026	-0.05	0.889	7.589
0.030	-0.05	0.882	7.582
0.034	-0.06	0.870	7.570
0.042	-0.07	0.845	7.545
0.045	-0.08	0.836	7.536
0.049	-0.08	0.827	7.527
0.053	-0.09	0.819	7.519
0.056	-0.09	0.809	7.509
0.060	-0.10	0.800	7.500
0.064	-0.10	0.790	7.490
0.067	-0.11	0.781	7.481
0.071	-0.11	0.772	7.472
0.079	-0.13	0.749	7.449
0.083	-0.13	0.741	7.441
0.087	-0.13	0.734	7.434
0.090	-0.14	0.728	7.428
0.094	-0.14	0.719	7.419
0.098	-0.15	0.710	7.410
0.102	-0.15	0.702	7.402
0.110	-0.17	0.679	7.379
0.114	-0.17	0.672	7.372
0.119	-0.18	0.664	7.364
0.130	-0.19	0.639	7.339
0.133	-0.20	0.630	7.330
0.141	-0.21	0.619	7.319
0.150	-0.22	0.599	7.299
0.158	-0.23	0.588	7.288
0.169	-0.25	0.566	7.266
0.178	-0.26	0.550	7.250
0.190	-0.28	0.530	7.230
0.199	-0.29	0.517	7.217
0.211	-0.31	0.494	7.194
0.230	-0.33	0.466	7.166
0.237	-0.34	0.457	7.157
0.251	-0.35	0.444	7.144
0.266	-0.38	0.420	7.120
0.282	-0.40	0.400	7.100
0.298	-0.42	0.383	7.083
0.316	-0.44	0.363	7.063
0.335	-0.46	0.345	7.045
0.355	-0.49	0.326	7.026
0.376	-0.51	0.309	7.009
0.398	-0.54	0.291	6.991
0.422	-0.57	0.272	6.972
0.447	-0.59	0.256	6.956
0.473	-0.62	0.240	6.940
0.501	-0.65	0.225	6.925
0.531	-0.67	0.212	6.912
0.562	-0.71	0.196	6.896
0.596	-0.74	0.182	6.882
0.631	-0.77	0.170	6.870
0.668	-0.79	0.161	6.861
0.708	-0.83	0.148	6.848
0.750	-0.86	0.139	6.839
0.794	-0.88	0.131	6.831
0.841	-0.91	0.123	6.823
0.891	-0.94	0.114	6.814
0.944	-0.96	0.109	6.809
1.000	-0.99	0.103	6.803
1.060	-1.01	0.098	6.798
1.121	-1.02	0.095	6.795
1.190	-1.06	0.088	6.788
1.260	-1.07	0.085	6.785
1.331	-1.09	0.082	6.782
1.410	-1.11	0.077	6.777
1.500	-1.13	0.074	6.774
1.581	-1.12	0.075	6.775
1.681	-1.15	0.070	6.770
1.782	-1.17	0.068	6.768
1.882	-1.17	0.067	6.767
1.990	-1.18	0.066	6.766
2.110	-1.21	0.062	6.762
2.240	-1.22	0.060	6.760

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 1.96

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 2.38

Calculation of Coefficients

Value range for Le/rw from Table of Coefficients

Le/rw	A	B	C
20	2.23	0.29	1.75
30	2.5	0.35	2.1

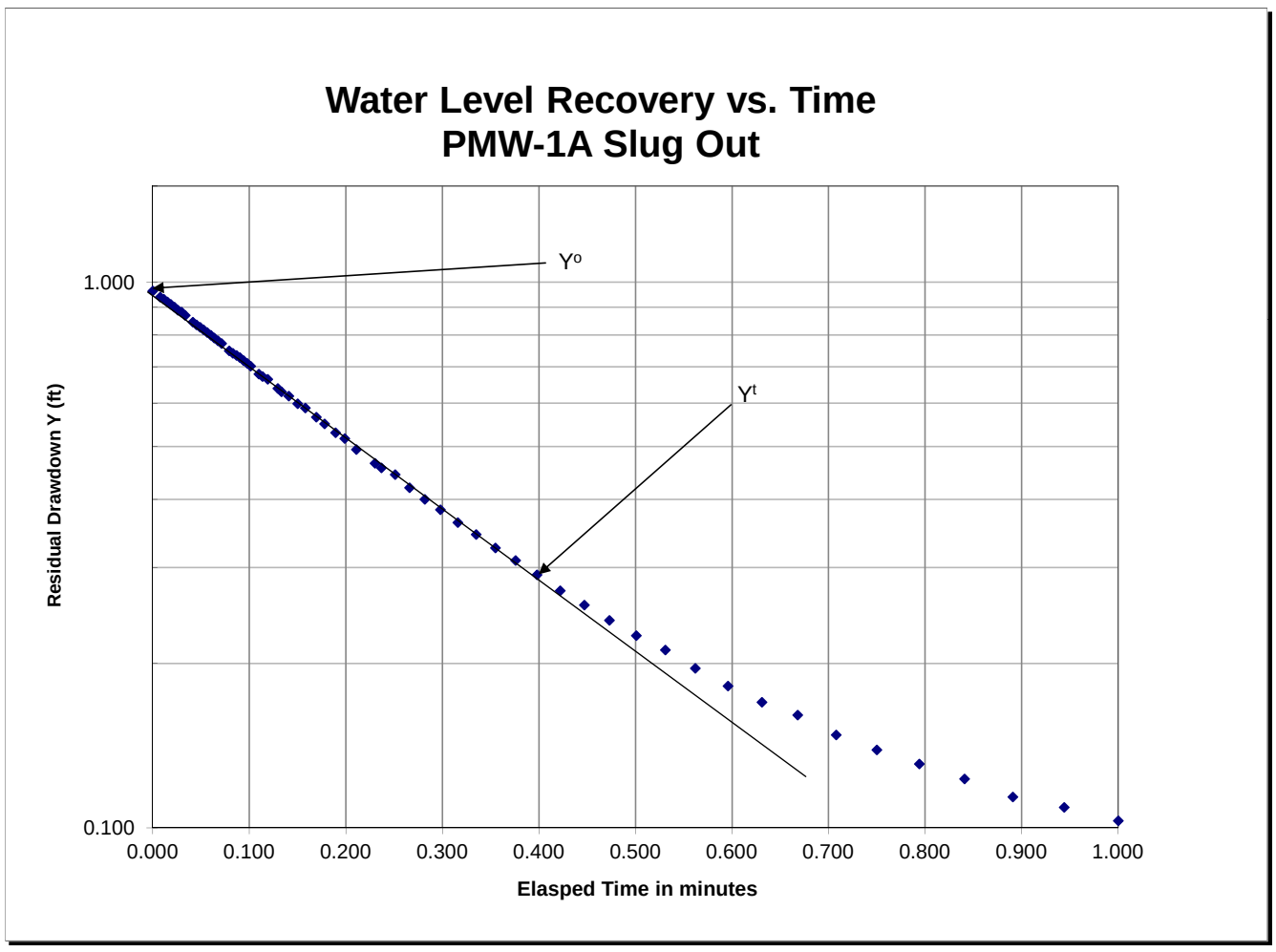
Interpolated values of A, B and C for Le/rw

21.21	2.26	0.30	1.79

Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90

Reference: Bouwer(1989), Bouwer and Rice(1976)



Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-1B (in)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Slug In	Checked/date:	Bellis 2/17/15

WELL DATA

SWL =	6.79	(ft BTOC)
WD =	57.75	(ft BTOC)
WD =	54.00	(ft BGS)
DTSP =	50.75	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	7	(ft)
Lw =	50.96	(ft)
Le/rw =	21.21	
H =	75.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	1.635	(ft) from plot
yt =	0.515	(ft) from plot
t =	1.661	(minutes) from plot
ln(Re/rw) =	2.56	
K =	**1.3E+00**	**(ft/day)**
K =	**4.6E-04**	**(cm/sec)**

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.000	0.20	1.600	5.19
0.008	0.23	1.717	5.073
0.012	0.19	1.544	5.246
0.015	0.18	1.517	5.273
0.019	0.21	1.635	5.155
0.023	0.21	1.618	5.172
0.027	0.21	1.610	5.18
0.030	0.21	1.618	5.172
0.034	0.19	1.562	5.228
0.038	0.20	1.576	5.214
0.045	0.18	1.509	5.281
0.049	0.19	1.549	5.241
0.053	0.23	1.689	5.101
0.056	0.20	1.581	5.209
0.060	0.21	1.627	5.163
0.064	0.22	1.641	5.149
0.067	0.19	1.565	5.225
0.071	0.20	1.570	5.22
0.079	0.19	1.556	5.234
0.083	0.21	1.611	5.179
0.087	0.15	1.418	5.372
0.090	0.18	1.501	5.289
0.094	0.19	1.543	5.247
0.098	0.18	1.525	5.265
0.102	0.19	1.543	5.247
0.110	0.18	1.523	5.267
0.114	0.18	1.519	5.271
0.119	0.18	1.513	5.277
0.130	0.18	1.504	5.286
0.134	0.18	1.501	5.289
0.141	0.17	1.491	5.299
0.150	0.17	1.484	5.306
0.158	0.17	1.473	5.317
0.170	0.17	1.465	5.325
0.178	0.16	1.455	5.335
0.190	0.16	1.447	5.343
0.199	0.16	1.436	5.354
0.211	0.15	1.427	5.363
0.224	0.15	1.410	5.38
0.237	0.15	1.402	5.388
0.251	0.14	1.386	5.404
0.266	0.14	1.372	5.418
0.282	0.13	1.357	5.433
0.298	0.13	1.345	5.445
0.316	0.12	1.328	5.462
0.335	0.12	1.313	5.477
0.355	0.11	1.293	5.497
0.376	0.11	1.276	5.514
0.398	0.10	1.257	5.533
0.422	0.09	1.239	5.551
0.447	0.09	1.217	5.573
0.473	0.08	1.195	5.595
0.502	0.07	1.170	5.62
0.531	0.06	1.149	5.641
0.562	0.05	1.124	5.666
0.597	0.04	1.103	5.687
0.631	0.03	1.076	5.714
0.668	0.02	1.050	5.74
0.708	0.01	1.021	5.769
0.752	0.00	0.992	5.798
0.794	-0.02	0.963	5.827
0.841	-0.03	0.935	5.855
0.891	-0.05	0.901	5.889
0.944	-0.06	0.867	5.923
1.002	-0.08	0.834	5.956
1.060	-0.10	0.801	5.989
1.120	-0.12	0.767	6.023
1.190	-0.14	0.731	6.059
1.260	-0.16	0.694	6.096
1.330	-0.18	0.659	6.131
1.410	-0.21	0.623	6.167
1.503	-0.24	0.582	6.208
1.580	-0.26	0.551	6.239
1.680	-0.29	0.515	6.275
1.780	-0.32	0.474	6.316
1.880	-0.36	0.441	6.349
1.990	-0.39	0.410	6.38
2.110	-0.43	0.372	6.418

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 2.56

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 3.33

Calculation of Coefficients

Value range for Le/rw from Table of Coefficients

Le/rw	A	B	C
20	2.23	0.29	1.75
30	2.5	0.35	2.1

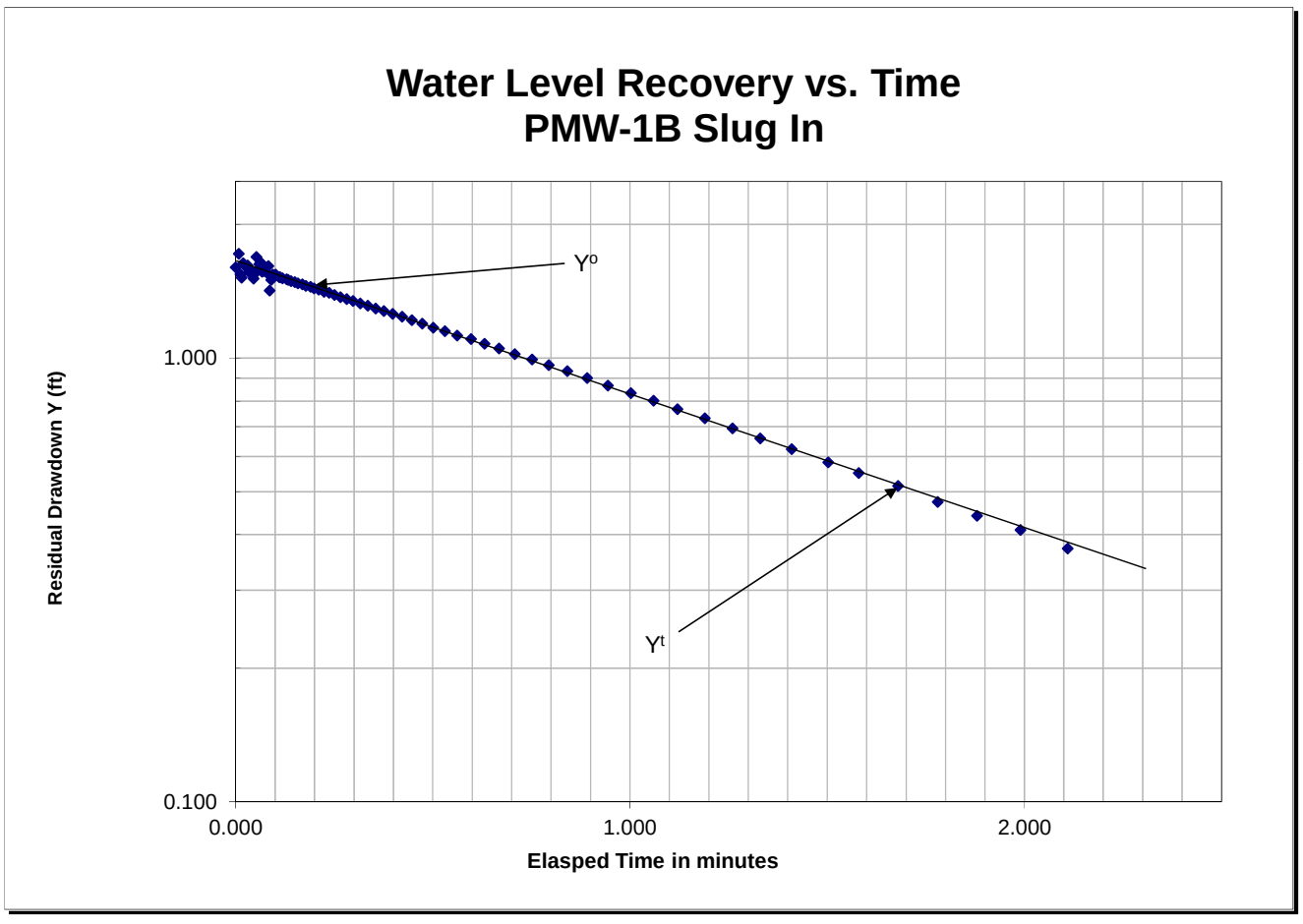
Interpolated values of A, B and C for Le/rw

21.21	2.26	0.30	1.79

Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90

Reference: Bouwer(1989), Bouwer and Rice(1976)



Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-1B (out)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Recovery	Checked/date:	Bellis 2/17/15

WELL DATA

SWL =	6.79	(ft BTOC)
WD =	57.75	(ft BTOC)
WD =	54.00	(ft BGS)
DTSP =	50.75	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	7	(ft)
Lw =	50.96	(ft)
Le/rw =	21.21	
H =	75.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	1.632	(ft) from plot
yt =	0.580	(ft) from plot
t =	1.500	(minutes) from plot
ln(Re/rw) =	2.56	
K =	**1.3E+00**	**(ft/day)**
K =	**4.5E-04**	**(cm/sec)**

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.000	0.21	1.632	8.422
0.008	0.21	1.624	8.414
0.012	0.21	1.621	8.411
0.015	0.21	1.620	8.410
0.019	0.21	1.615	8.405
0.023	0.21	1.611	8.401
0.027	0.21	1.606	8.396
0.030	0.20	1.603	8.393
0.034	0.20	1.599	8.389
0.038	0.20	1.596	8.386
0.045	0.20	1.585	8.375
0.049	0.20	1.582	8.372
0.053	0.20	1.579	8.369
0.056	0.20	1.576	8.366
0.060	0.20	1.573	8.363
0.064	0.20	1.569	8.359
0.068	0.19	1.566	8.356
0.071	0.19	1.561	8.351
0.075	0.19	1.556	8.346
0.083	0.19	1.546	8.336
0.087	0.19	1.542	8.332
0.091	0.19	1.540	8.330
0.094	0.19	1.536	8.326
0.098	0.19	1.532	8.322
0.102	0.18	1.528	8.318
0.110	0.18	1.515	8.305
0.114	0.18	1.514	8.304
0.119	0.18	1.510	8.300
0.130	0.18	1.497	8.287
0.134	0.17	1.491	8.281
0.141	0.17	1.487	8.277
0.150	0.17	1.477	8.267
0.158	0.17	1.470	8.260
0.170	0.16	1.458	8.248
0.178	0.16	1.450	8.240
0.190	0.16	1.436	8.226
0.199	0.16	1.430	8.220
0.211	0.15	1.414	8.204
0.224	0.15	1.398	8.188
0.237	0.14	1.394	8.184
0.251	0.14	1.379	8.169
0.266	0.13	1.364	8.154
0.282	0.13	1.349	8.139
0.298	0.13	1.335	8.125
0.316	0.12	1.319	8.109
0.335	0.11	1.300	8.090
0.355	0.11	1.284	8.074
0.376	0.10	1.266	8.056
0.398	0.10	1.248	8.038
0.422	0.09	1.226	8.016
0.447	0.08	1.208	7.998
0.473	0.07	1.184	7.974
0.501	0.07	1.163	7.953
0.531	0.06	1.139	7.929
0.562	0.05	1.116	7.906
0.596	0.04	1.090	7.880
0.631	0.03	1.062	7.852
0.668	0.02	1.036	7.826
0.708	0.00	1.010	7.800
0.750	-0.01	0.981	7.771
0.796	-0.02	0.950	7.740
0.842	-0.04	0.920	7.710
0.892	-0.05	0.890	7.680
0.947	-0.07	0.856	7.646
1.000	-0.08	0.825	7.615
1.060	-0.10	0.793	7.583
1.120	-0.12	0.759	7.549
1.193	-0.14	0.721	7.511
1.260	-0.16	0.688	7.478
1.330	-0.18	0.654	7.444
1.410	-0.21	0.618	7.408
1.500	-0.24	0.580	7.370
1.580	-0.26	0.549	7.339
1.680	-0.29	0.510	7.300
1.780	-0.32	0.475	7.265
1.880	-0.35	0.443	7.233
1.990	-0.39	0.411	7.201
2.110	-0.42	0.378	7.168

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 2.56

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 3.33

Calculation of Coefficients

Value range for Le/rw from Table of Coefficients

Le/rw	A	B	C
20	2.23	0.29	1.75
30	2.5	0.35	2.1

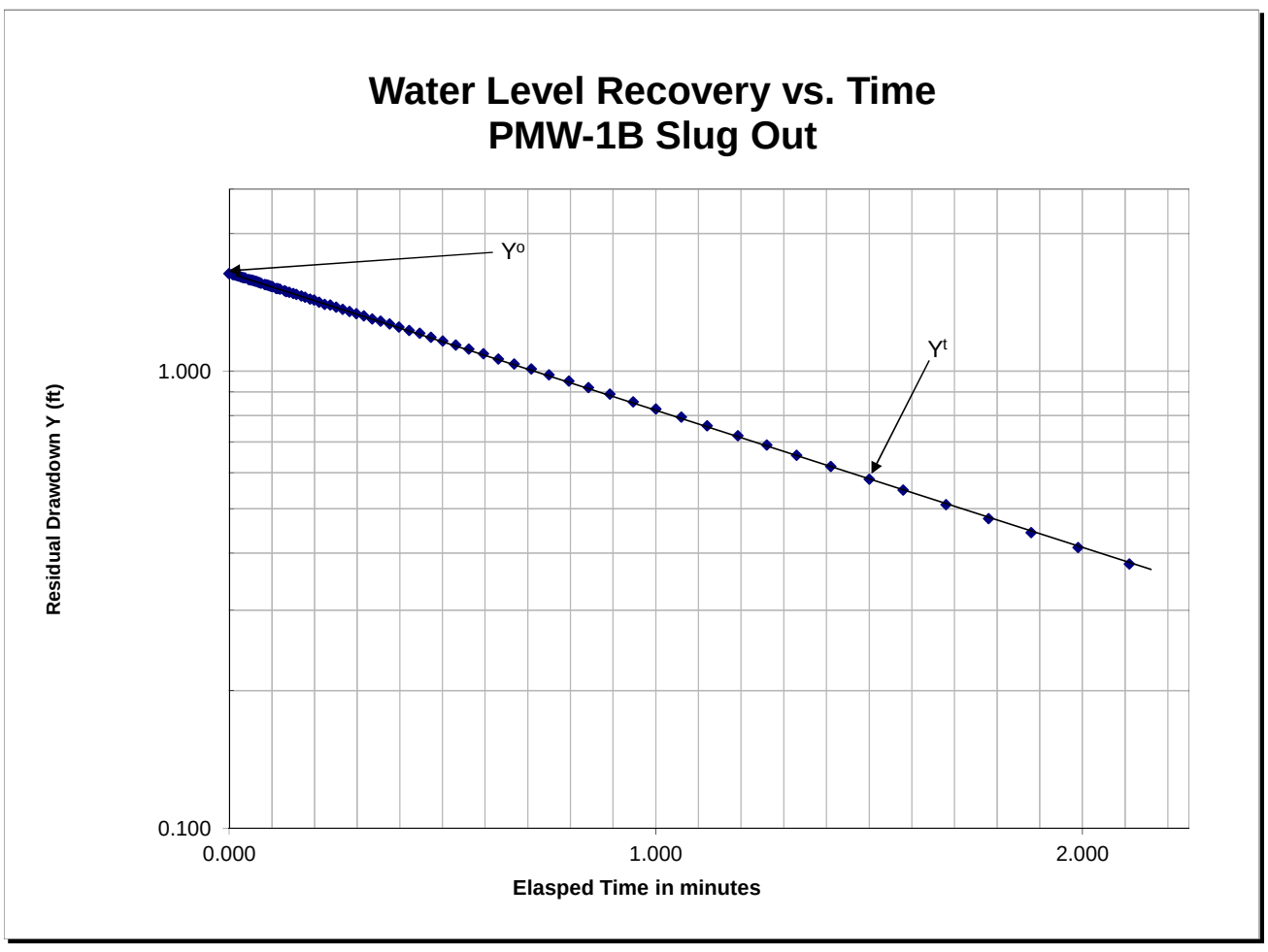
Interpolated values of A, B and C for Le/rw

21.21	2.26	0.30	1.79

Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90

Reference: Bouwer(1989), Bouwer and Rice(1976)



Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-10A (in)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Slug In	Checked/date:	Bellis 2/17/15

WELL DATA

SWL =	7.61	(ft BTOC)
WD =	62.69	(ft BTOC)
WD =	63.00	(ft BGS)
DTSP =	50.69	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	12	(ft)
Lw =	55.08	(ft)
Le/rw =	36.36	
H =	75.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	1.057	(ft) from plot
yt =	0.554	(ft) from plot
t =	0.596	(minutes) from plot
ln(Re/rw) =	3.03	
K =	**1.4E+00**	**(ft/day)**
K =	**5.0E-04**	**(cm/sec)**

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.000	0.02	1.057	6.553
0.004	0.10	1.252	6.358
0.008	0.09	1.228	6.382
0.013	0.09	1.220	6.390
0.017	0.09	1.222	6.388
0.021	0.07	1.184	6.426
0.025	-0.11	0.779	6.831
0.029	0.18	1.511	6.099
0.033	0.03	1.071	6.539
0.038	0.07	1.173	6.437
0.042	0.17	1.482	6.128
0.046	-0.01	0.978	6.632
0.050	0.04	1.106	6.504
0.054	0.01	1.025	6.585
0.058	0.04	1.087	6.523
0.063	-0.02	0.962	6.648
0.067	0.03	1.060	6.550
0.071	0.05	1.110	6.500
0.075	0.10	1.273	6.337
0.079	0.06	1.148	6.462
0.084	0.04	1.097	6.513
0.088	0.10	1.271	6.339
0.092	-0.04	0.921	6.689
0.096	0.01	1.018	6.592
0.100	-0.16	0.691	6.919
0.106	0.02	1.058	6.552
0.112	0.06	1.142	6.468
0.119	-0.12	0.750	6.860
0.126	0.01	1.020	6.590
0.133	-0.01	0.983	6.627
0.141	0.04	1.098	6.512
0.150	0.03	1.082	6.528
0.159	-0.02	0.947	6.663
0.168	-0.07	0.856	6.754
0.178	-0.06	0.867	6.743
0.188	-0.04	0.917	6.693
0.199	-0.04	0.906	6.704
0.216	-0.05	0.882	6.728
0.224	-0.06	0.866	6.744
0.237	-0.07	0.851	6.759
0.256	-0.08	0.834	6.776
0.266	-0.09	0.820	6.790
0.282	-0.10	0.802	6.808
0.298	-0.10	0.789	6.821
0.316	-0.11	0.768	6.842
0.335	-0.13	0.748	6.862
0.355	-0.14	0.726	6.884
0.377	-0.15	0.708	6.902
0.398	-0.16	0.687	6.923
0.422	-0.18	0.667	6.943
0.447	-0.19	0.645	6.965
0.473	-0.20	0.627	6.983
0.501	-0.22	0.604	7.006
0.531	-0.23	0.584	7.026
0.562	-0.25	0.562	7.048
0.596	-0.26	0.544	7.066
0.631	-0.28	0.523	7.087
0.668	-0.30	0.501	7.109
0.708	-0.32	0.482	7.128
0.750	-0.33	0.464	7.146
0.794	-0.35	0.444	7.166
0.841	-0.37	0.425	7.185
0.891	-0.39	0.403	7.207
0.944	-0.41	0.388	7.222
1.000	-0.43	0.371	7.239
1.060	-0.45	0.354	7.256
1.120	-0.47	0.339	7.271
1.190	-0.49	0.323	7.287
1.260	-0.51	0.311	7.299
1.330	-0.53	0.297	7.313
1.411	-0.54	0.286	7.324
1.500	-0.57	0.272	7.338
1.580	-0.58	0.262	7.348
1.680	-0.60	0.250	7.360
1.780	-0.62	0.238	7.372
1.880	-0.64	0.229	7.381
1.990	-0.65	0.222	7.388
2.112	-0.66	0.217	7.393

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 3.03

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 3.70

Calculation of Coefficients

Value range for Le/rw from Table of Coefficients

Le/rw	A	B	C
30	2.5	0.35	2.1
40	2.75	0.45	2.45

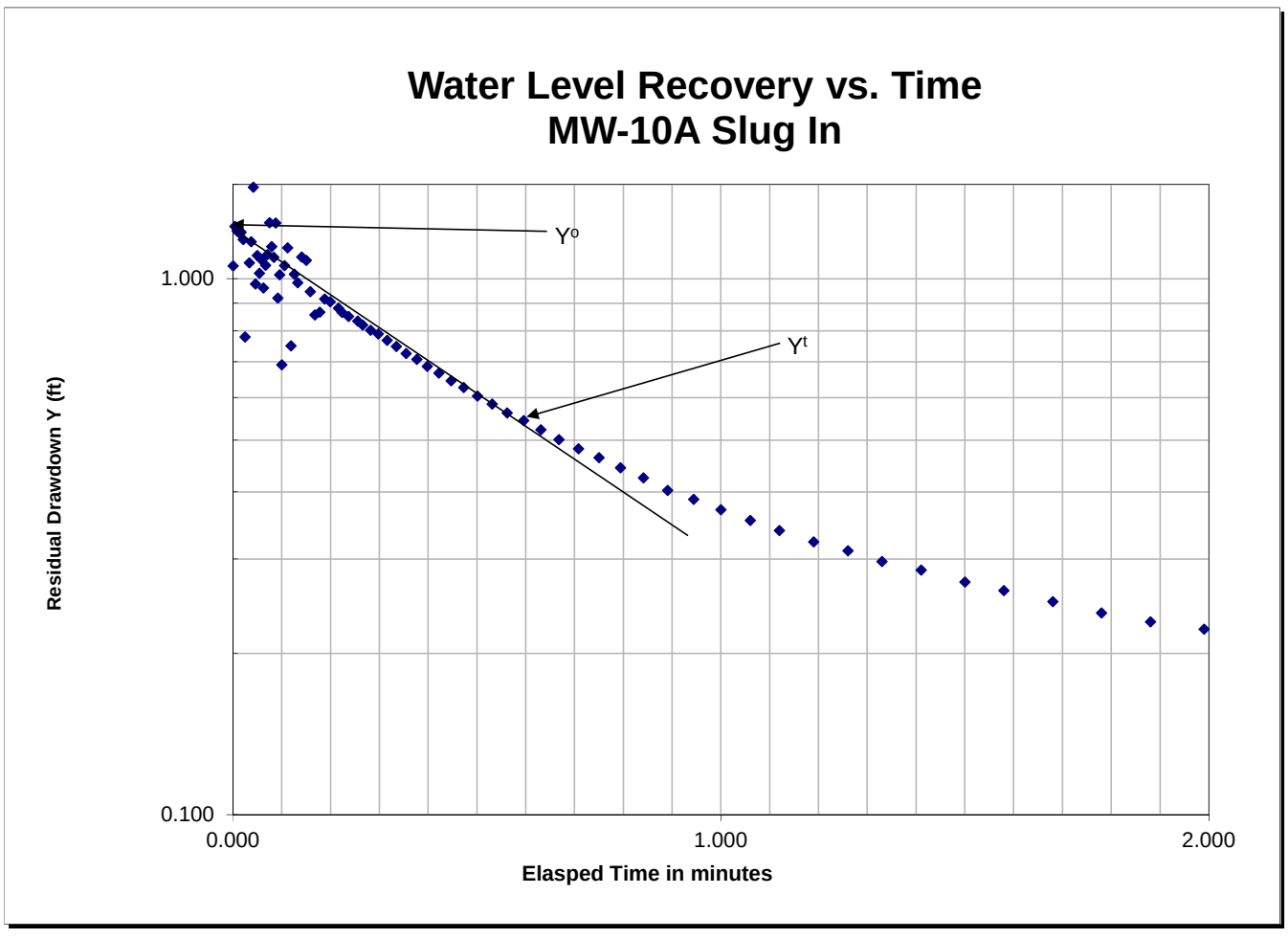
Interpolated values of A, B and C for Le/rw

36.36	2.66	0.41	2.32

Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90

Reference: Bouwer(1989), Bouwer and Rice(1976)



Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-10A (out)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Recovery	Checked/date:	Bellis 2/17/15

WELL DATA

SWL =	7.61	(ft BTOC)
WD =	62.69	(ft BTOC)
WD =	63.00	(ft BGS)
DTSP =	50.69	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	12	(ft)
Lw =	55.08	(ft)
Le/rw =	36.36	
H =	75.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	1.172	(ft) from plot
yt =	0.327	(ft) from plot
t =	0.794	(minutes) from plot
ln(Re/rw) =	3.03	
K =	**2.1E+00**	**(ft/day)**
K =	**7.4E-04**	**(cm/sec)**

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.000	0.07	1.172	8.782
0.008	0.07	1.164	8.774
0.012	0.06	1.155	8.765
0.016	0.06	1.146	8.756
0.019	0.05	1.135	8.745
0.023	0.05	1.127	8.737
0.027	0.05	1.119	8.729
0.030	0.05	1.111	8.721
0.034	0.04	1.100	8.710
0.038	0.04	1.091	8.701
0.046	0.03	1.082	8.692
0.050	0.02	1.056	8.666
0.053	0.03	1.061	8.671
0.057	0.02	1.052	8.662
0.061	0.02	1.050	8.660
0.064	0.02	1.045	8.655
0.068	0.01	1.035	8.645
0.072	0.01	1.028	8.638
0.075	0.01	1.020	8.630
0.079	0.00	1.007	8.617
0.087	0.00	1.001	8.611
0.091	-0.01	0.982	8.592
0.095	-0.01	0.979	8.589
0.098	-0.01	0.973	8.583
0.102	-0.02	0.965	8.575
0.111	-0.02	0.950	8.560
0.114	-0.02	0.947	8.557
0.119	-0.03	0.941	8.551
0.130	-0.03	0.930	8.540
0.134	-0.04	0.915	8.525
0.141	-0.04	0.902	8.512
0.150	-0.05	0.891	8.501
0.158	-0.06	0.876	8.486
0.170	-0.06	0.862	8.472
0.178	-0.07	0.844	8.454
0.190	-0.08	0.834	8.444
0.199	-0.09	0.816	8.426
0.211	-0.10	0.792	8.402
0.224	-0.11	0.783	8.393
0.237	-0.12	0.762	8.372
0.251	-0.13	0.738	8.348
0.266	-0.14	0.726	8.336
0.282	-0.15	0.708	8.318
0.298	-0.16	0.688	8.298
0.316	-0.17	0.671	8.281
0.335	-0.19	0.649	8.259
0.355	-0.20	0.629	8.239
0.376	-0.22	0.609	8.219
0.398	-0.23	0.588	8.198
0.422	-0.25	0.566	8.176
0.447	-0.27	0.542	8.152
0.473	-0.28	0.521	8.131
0.501	-0.30	0.501	8.111
0.531	-0.32	0.482	8.092
0.564	-0.34	0.456	8.066
0.596	-0.36	0.434	8.044
0.631	-0.38	0.414	8.024
0.668	-0.41	0.391	8.001
0.710	-0.43	0.368	7.978
0.750	-0.46	0.349	7.959
0.794	-0.49	0.327	7.937
0.841	-0.51	0.307	7.917
0.891	-0.54	0.287	7.897
0.944	-0.57	0.268	7.878
1.000	-0.60	0.250	7.860
1.060	-0.64	0.230	7.840
1.120	-0.67	0.215	7.825
1.190	-0.71	0.195	7.805
1.260	-0.74	0.180	7.790
1.330	-0.78	0.166	7.776
1.411	-0.82	0.153	7.763
1.500	-0.88	0.133	7.743
1.580	-0.91	0.122	7.732
1.680	-0.96	0.109	7.719
1.780	-1.00	0.099	7.709
1.880	-1.03	0.093	7.703
1.990	-1.06	0.088	7.698
2.112	-1.10	0.079	7.689

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 3.03

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 3.70

Calculation of Coefficients

Value range for Le/rw from Table of Coefficients

Le/rw	A	B	C
30	2.5	0.35	2.1
40	2.75	0.45	2.45

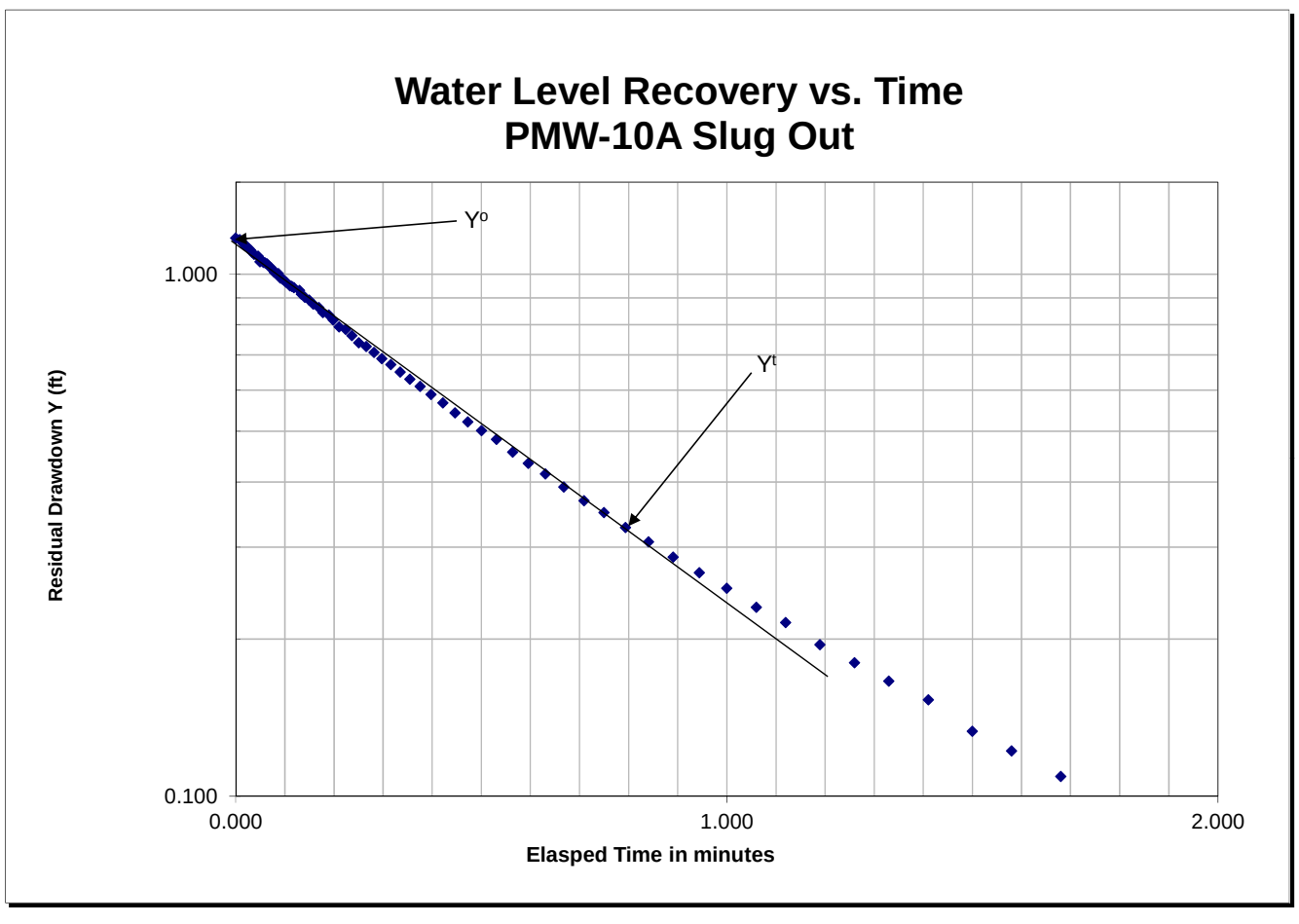
Interpolated values of A, B and C for Le/rw

36.36	2.66	0.41	2.32

Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90

Reference: Bouwer(1989), Bouwer and Rice(1976)



Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-10B (in)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Slug In	Checked/date:	Bellis 2/18/15

WELL DATA

SWL =	7.44	(ft BTOC)
WD =	72.68	(ft BTOC)
WD =	73.00	(ft BGS)
DTSP =	65.68	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	7	(ft)
Lw =	65.24	(ft)
Le/rw =	21.21	
H =	75.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	0.614	(ft) from plot
yt =	0.144	(ft) from plot
t =	0.996	(minutes) from plot
ln(Re/rw) =	2.78	
K =	**2.9E+00**	**(ft/day)**
K =	**1.0E-03**	**(cm/sec)**

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.422	0.31	2.042	5.398
0.447	0.05	1.110	6.330
0.473	0.09	1.217	6.223
0.501	0.07	1.187	6.253
0.531	-0.22	0.604	6.836
0.562	-0.23	0.593	6.847
0.596	-1.19	0.065	7.375
0.633	-0.21	0.614	6.826
0.668	-0.26	0.550	6.890
0.708	-0.29	0.517	6.923
0.750	-0.30	0.506	6.934
0.794	-0.40	0.397	7.043
0.841	-0.44	0.367	7.073
0.891	-0.48	0.330	7.110
0.944	-0.39	0.410	7.030
1.000	-0.43	0.373	7.067
1.060	-0.62	0.240	7.200
1.121	-0.67	0.216	7.224
1.190	-0.71	0.197	7.243
1.260	-0.75	0.177	7.263
1.330	-0.79	0.161	7.279
1.410	-0.84	0.144	7.296
1.500	-0.89	0.128	7.312
1.580	-0.93	0.118	7.322
1.680	-0.97	0.107	7.333
1.780	-1.00	0.099	7.341
1.881	-1.05	0.090	7.350
1.990	-1.08	0.084	7.356
2.110	-1.11	0.077	7.363
2.240	-1.16	0.069	7.371
2.370	-1.19	0.064	7.376
2.510	-1.21	0.061	7.379
2.660	-1.24	0.058	7.382
2.820	-1.32	0.048	7.392
2.982	-1.32	0.048	7.392
3.160	-1.34	0.046	7.394
3.350	-1.41	0.039	7.401
3.550	-1.40	0.040	7.400
3.760	-1.43	0.037	7.403
3.983	-1.44	0.036	7.404
4.220	-1.43	0.037	7.403
4.470	-1.42	0.038	7.402
4.730	-1.54	0.029	7.411
5.010	-1.60	0.025	7.415
5.310	-1.57	0.027	7.413
5.620	-1.59	0.026	7.414
5.960	-1.60	0.025	7.415
6.310	-1.55	0.028	7.412
6.683	-1.55	0.028	7.412
7.083	-1.59	0.026	7.414
7.500	-1.60	0.025	7.415
7.940	-1.62	0.024	7.416
8.410	-1.54	0.029	7.411
8.910	-1.51	0.031	7.409
9.441	-1.68	0.021	7.419
10.000	-1.60	0.025	7.415
10.600	-1.80	0.016	7.424
11.201	-1.70	0.020	7.420
11.902	-1.68	0.021	7.419
12.600	-1.51	0.031	7.409

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 2.78

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 3.45

Calculation of Coefficients

Value range for Le/rw from Table of Coefficients

Le/rw	A	B	C
20	2.23	0.29	1.75
30	2.5	0.35	2.1

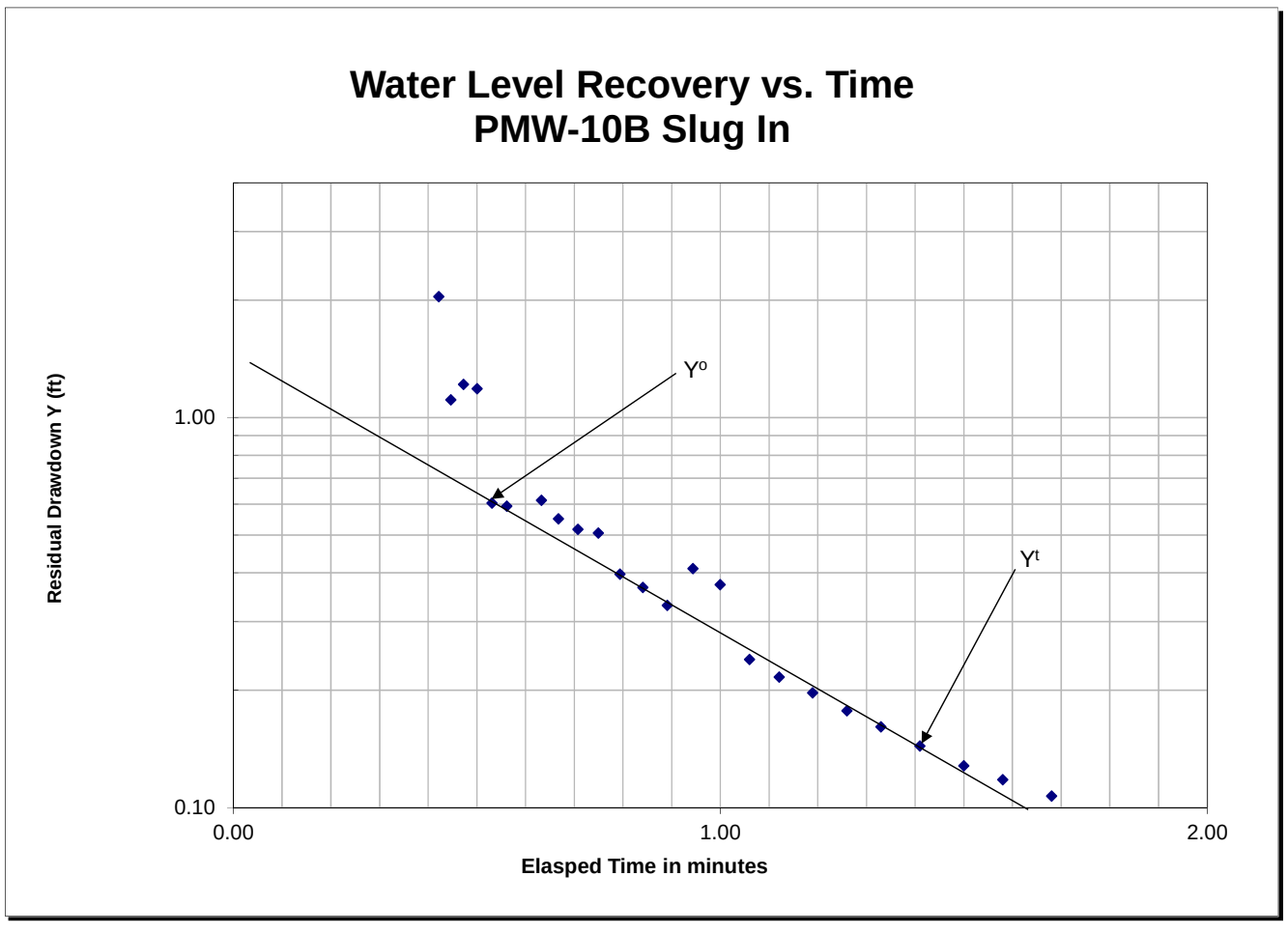
Interpolated values of A, B and C for Le/rw

21.21	2.26	0.30	1.79

Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90

Reference: Bouwer(1989), Bouwer and Rice(1976)



Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-10B (out)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Recovery	Checked/date:	Bellis 2/18/15

WELL DATA

SWL =	7.44	(ft BTOC)
WD =	72.68	(ft BTOC)
WD =	73.00	(ft BGS)
DTSP =	65.68	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	7	(ft)
Lw =	65.24	(ft)
Le/rw =	21.21	
H =	75.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	0.729	(ft) from plot
yt =	0.351	(ft) from plot
t =	0.266	(minutes) from plot
ln(Re/rw) =	2.78	
K =	**5.5E+00**	**(ft/day)**
K =	**2.0E-03**	**(cm/sec)**

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 2.78

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 3.45

Calculation of Coefficients

Value range for Le/rw from Table of Coefficients

Le/rw	A	B	C
20	2.23	0.29	1.75
30	2.5	0.35	2.1

Interpolated values of A, B and C for Le/rw

21.21	2.26	0.30	1.79

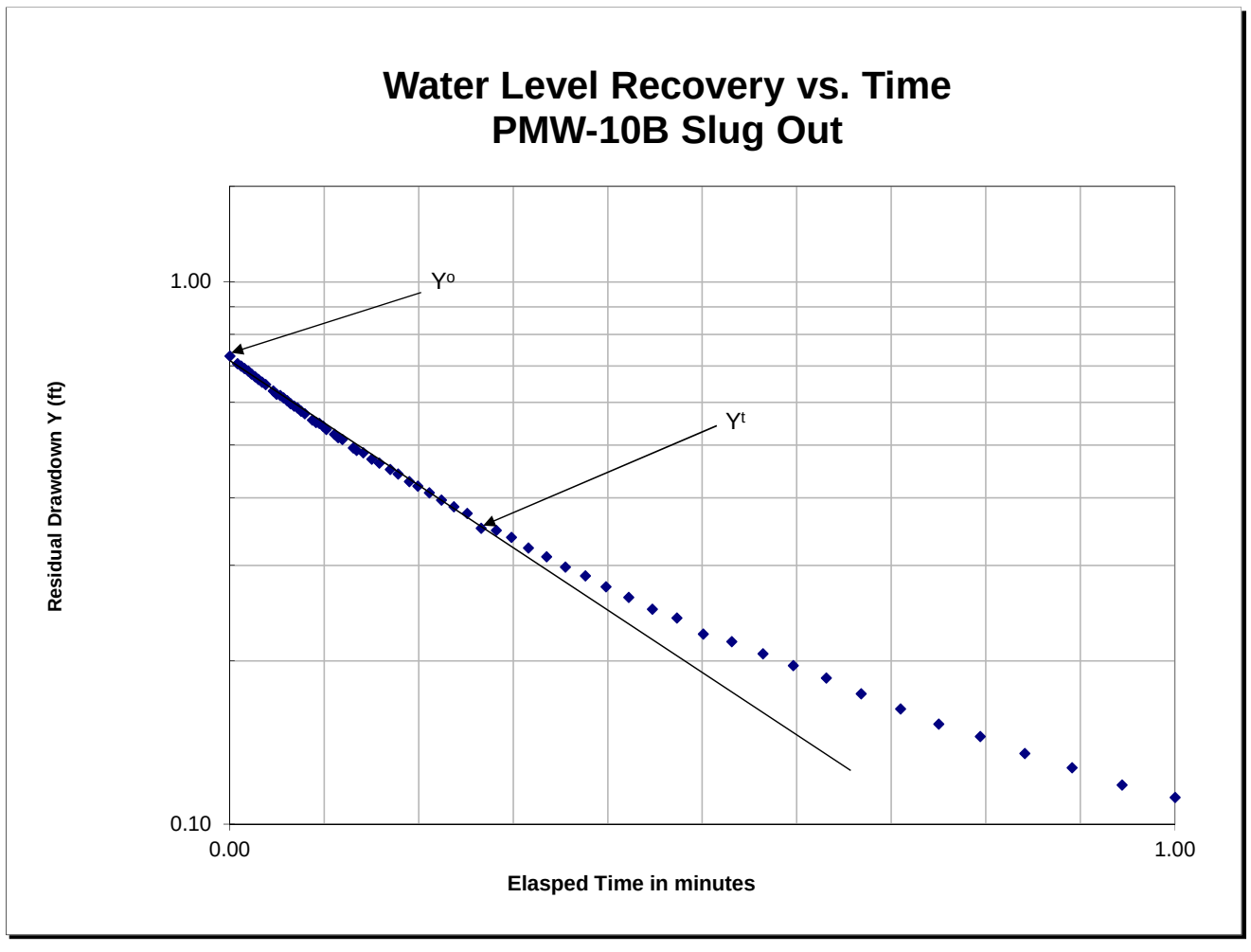
Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90

Reference: Bouwer(1989), Bouwer and Rice(1976)

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.000	-0.14	0.729	8.169
0.008	-0.15	0.706	8.146
0.012	-0.16	0.699	8.139
0.016	-0.16	0.692	8.132
0.019	-0.16	0.685	8.125
0.023	-0.17	0.676	8.116
0.027	-0.18	0.668	8.108
0.030	-0.18	0.661	8.101
0.034	-0.19	0.653	8.093
0.038	-0.19	0.646	8.086
0.046	-0.20	0.629	8.069
0.050	-0.21	0.620	8.060
0.053	-0.21	0.617	8.057
0.057	-0.21	0.611	8.051
0.061	-0.22	0.604	8.044
0.064	-0.22	0.596	8.036
0.068	-0.23	0.590	8.030
0.072	-0.23	0.585	8.025
0.075	-0.24	0.577	8.017
0.079	-0.24	0.571	8.011
0.087	-0.25	0.556	7.996
0.091	-0.26	0.550	7.990
0.095	-0.26	0.548	7.988
0.098	-0.27	0.542	7.982
0.102	-0.27	0.534	7.974
0.111	-0.28	0.523	7.963
0.114	-0.29	0.516	7.956
0.119	-0.29	0.512	7.952
0.130	-0.31	0.494	7.934
0.134	-0.31	0.489	7.929
0.141	-0.32	0.484	7.924
0.150	-0.33	0.471	7.911
0.158	-0.33	0.463	7.903
0.170	-0.35	0.451	7.891
0.178	-0.35	0.442	7.882
0.190	-0.37	0.428	7.868
0.199	-0.38	0.420	7.860
0.211	-0.39	0.408	7.848
0.224	-0.40	0.396	7.836
0.237	-0.41	0.385	7.825
0.251	-0.43	0.374	7.814
0.266	-0.45	0.351	7.791
0.282	-0.46	0.348	7.788
0.298	-0.47	0.338	7.778
0.316	-0.49	0.323	7.763
0.335	-0.51	0.311	7.751
0.355	-0.53	0.298	7.738
0.376	-0.54	0.287	7.727
0.398	-0.56	0.274	7.714
0.422	-0.58	0.262	7.702
0.447	-0.60	0.249	7.689
0.473	-0.62	0.240	7.680
0.501	-0.65	0.224	7.664
0.531	-0.66	0.217	7.657
0.564	-0.69	0.206	7.646
0.596	-0.71	0.196	7.636
0.631	-0.73	0.186	7.626
0.668	-0.76	0.174	7.614
0.710	-0.79	0.163	7.603
0.750	-0.82	0.153	7.593
0.794	-0.84	0.145	7.585
0.841	-0.87	0.135	7.575
0.891	-0.90	0.127	7.567
0.944	-0.93	0.118	7.558
1.000	-0.95	0.112	7.552
1.060	-0.98	0.104	7.544
1.120	-1.00	0.101	7.541
1.190	-1.04	0.092	7.532
1.260	-1.07	0.086	7.526
1.330	-1.10	0.079	7.519
1.411	-1.12	0.075	7.515
1.500	-1.17	0.068	7.508
1.580	-1.20	0.063	7.503
1.680	-1.23	0.059	7.499
1.780	-1.25	0.056	7.496
1.880	-1.30	0.050	7.490
1.990	-1.30	0.050	7.490
2.112	-1.34	0.046	7.486



Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-13B (in)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Slug In	Checked/date:	Bellis 2/18/15

WELL DATA

SWL =	8.61	(ft BTOC)
WD =	102.72	(ft BTOC)
WD =	103.00	(ft BGS)
DTSP =	95.72	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	7	(ft)
Lw =	94.11	(ft)
Le/rw =	21.21	
H =	150.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	1.650	(ft) from plot
yt =	0.460	(ft) from plot
t =	60.000	(minutes) from plot
ln(Re/rw) =	2.70	
K =	**4.0E-02**	**(ft/day)**
K =	**1.4E-05**	**(cm/sec)**

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.250	0.22	1.650	6.96
0.500	0.21	1.640	6.97
0.750	0.21	1.620	6.99
1.000	0.21	1.610	7.00
1.250	0.20	1.600	7.01
1.500	0.20	1.600	7.01
2.000	0.20	1.580	7.03
2.500	0.19	1.560	7.05
3.000	0.19	1.550	7.06
3.500	0.18	1.530	7.08
4.000	0.18	1.520	7.09
4.500	0.18	1.510	7.10
5.000	0.17	1.490	7.12
6.000	0.16	1.460	7.15
7.000	0.15	1.420	7.19
8.000	0.14	1.390	7.22
9.000	0.13	1.360	7.25
10.000	0.12	1.330	7.28
12.000	0.11	1.280	7.33
14.000	0.09	1.220	7.39
16.000	0.07	1.180	7.43
18.000	0.05	1.120	7.49
20.000	0.04	1.090	7.52
25.000	0.00	0.990	7.62
30.000	-0.05	0.890	7.72
40.000	-0.14	0.720	7.89
50.000	-0.24	0.580	8.03
60.000	-0.34	0.460	8.15
90.000	-0.66	0.220	8.39
118.000	-0.96	0.110	8.50

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 2.70

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 3.70

Calculation of Coefficients
Value range for Le/rw from Table of Coefficients

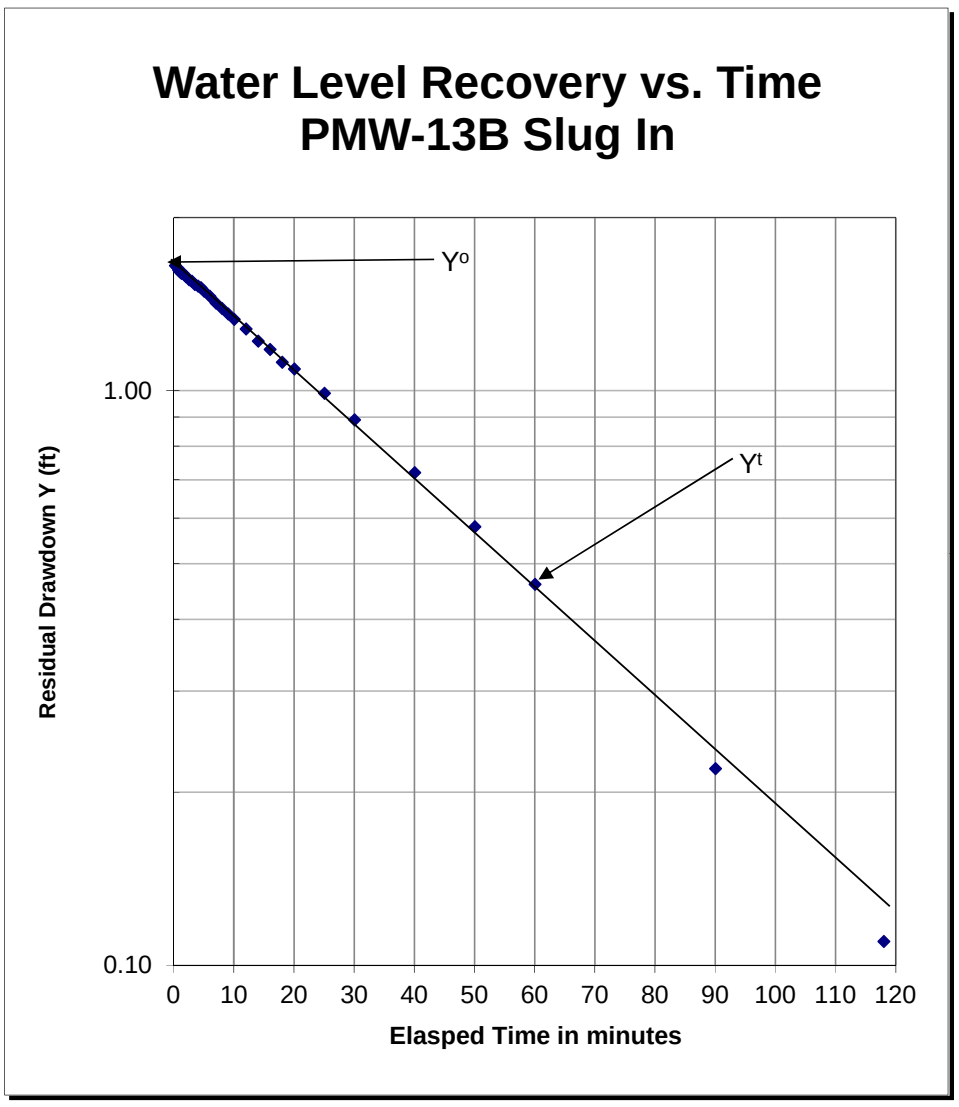
Le/rw	A	B	C
20	2.23	0.29	1.75
30	2.5	0.35	2.1

Interpolated values of A, B and C for Le/rw

21.21	2.26	0.30	1.79

Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90



Reference: Bouwer(1989), Bouwer and Rice(1976)

Trex Properties, Charlotte NC
Hydraulic Conductivity (K) Calculation Worksheet
W&R Project No. 03130430.01

Well:	PMW-13B (out)	Conducted by:	Fay
Test Date:	1/27/2015	Entered/date:	02/05/15
Test Type:	Recovery	Checked/date:	Bellis 2/18/15

WELL DATA

SWL =	8.61	(ft BTOC)
WD =	102.72	(ft BTOC)
WD =	103.00	(ft BGS)
DTSP =	95.72	(ft BTOC)
rc =	0.083	(ft)
n =	0.30	
rw =	0.33	(ft)
rc (adjusted) =	0.08	(ft)
Le =	7	(ft)
Lw =	94.11	(ft)
Le/rw =	21.21	
H =	150.00	(ft)

CALCULATION OF K

K = [(rc^2 ln(Re/rw))/2Le]*(1/t)ln(yo/yt)

yo =	1.600	(ft) from plot
yt =	0.810	(ft) from plot
t =	60.000	(minutes) from plot
ln(Re/rw) =	2.70	
K =	**2.1E-02**	**(ft/day)**
K =	**7.5E-06**	**(cm/sec)**

TEST DATA

Elapsed time (min)	Log y	y (ft)	WL (ft BTOC)
0.25	0.20	1.600	10.21
0.50	0.20	1.590	10.20
0.75	0.20	1.580	10.19
1.00	0.20	1.580	10.19
1.25	0.20	1.570	10.18
1.50	0.19	1.560	10.17
1.75	0.19	1.560	10.17
2.00	0.19	1.550	10.16
2.50	0.19	1.540	10.15
3.00	0.19	1.540	10.15
3.50	0.18	1.530	10.14
4.00	0.18	1.520	10.13
4.50	0.18	1.510	10.12
5.00	0.18	1.500	10.11
6.00	0.17	1.490	10.10
7.00	0.17	1.480	10.09
8.00	0.16	1.460	10.07
9.00	0.16	1.440	10.05
10.00	0.15	1.420	10.03
12.00	0.14	1.390	10.00
14.00	0.13	1.350	9.96
16.00	0.12	1.310	9.92
18.00	0.11	1.280	9.89
20.00	0.09	1.240	9.85
25.00	0.08	1.200	9.81
30.00	0.05	1.120	9.73
40.00	0.00	1.000	9.61
50.00	-0.05	0.900	9.51
60.00	-0.09	0.810	9.42
90.00	-0.24	0.580	9.19

Calculation of ln(Re/rw)

Where: Lw < H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{A+Bln((H-Lw)/rw)}/(Le/rw)]^-1= 2.70

Where: Lw = H;

ln(Re/rw) = [{1.1/(ln(Lw/rw))}+{C/(Le/rw)}]^-1 = 3.70

Calculation of Coefficients
Value range for Le/rw from Table of Coefficients

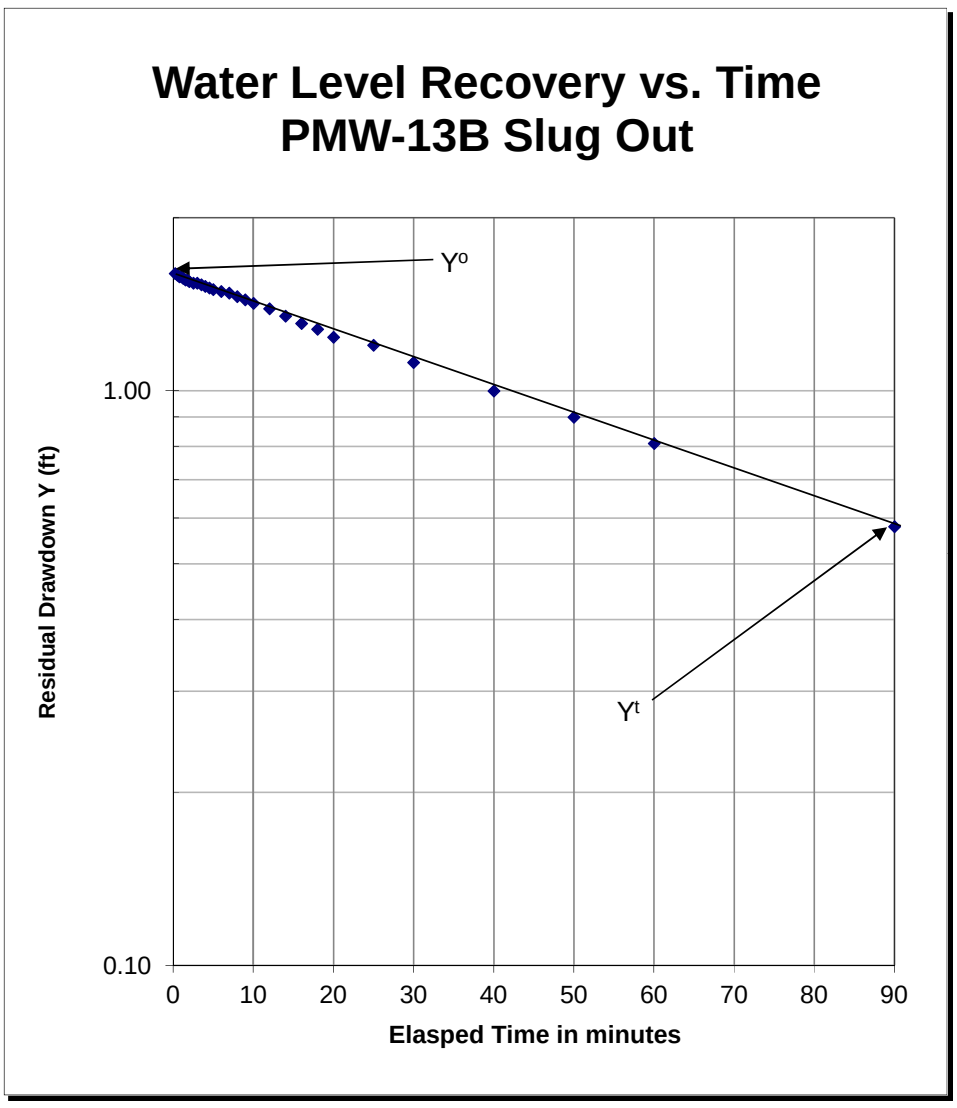
Le/rw	A	B	C
20	2.23	0.29	1.75
30	2.5	0.35	2.1

Interpolated values of A, B and C for Le/rw

21.21	2.26	0.30	1.79

Coefficients Table

Le/rw	A	Le/rw	B	Le/rw	C
4	1.75	4	0.25	4	0.75
5	1.76	5	0.25	5	0.85
6	1.77	6	0.25	6	0.90
7	1.80	7	0.25	7	1.00
8	1.83	8	0.25	8	1.10
9	1.90	9	0.25	9	1.20
10	1.95	10	0.25	10	1.30
15	2.10	15	0.27	15	1.50
20	2.23	20	0.29	20	1.75
25	2.40	25	0.31	25	1.90
30	2.50	30	0.35	30	2.10
40	2.75	40	0.45	40	2.45
50	3.00	50	0.50	50	2.70
60	3.45	60	0.52	60	3.00
70	3.70	70	0.60	70	3.40
80	3.90	80	0.65	80	3.60
90	4.20	90	0.70	90	3.85
100	4.50	100	0.75	100	4.20
150	5.45	150	0.98	150	5.70
200	6.10	200	1.20	200	7.00
250	6.70	250	1.30	250	8.00
300	7.10	300	1.50	300	8.80
400	7.75	400	1.90	400	9.90
500	8.20	500	2.20	500	10.60
600	8.50	600	2.33	600	11.10
700	8.70	700	2.50	700	11.50
800	8.90	800	2.70	800	11.80
900	9.00	900	2.75	900	12.00
1000	9.20	1000	2.83	1000	12.40
1500	9.50	1500	3.18	1500	12.90



Reference: Bouwer(1989), Bouwer and Rice(1976)

Appendix J

Indoor Air Sampling Reports for
3144 and 3110 Cullman Avenue Properties

Updated Draft Phase III RFI Report for
3114 & 3124 Cullman Avenue, Charlotte NC
EPA ID # NCD 049 773 245

WithersRavenel
Our People. Your Success.

October 5, 2015

EnviroAnalytics Group, LLC
1650 Des Peres Road, Suite 303
Saint Louis, MO 63131

Attn.: Ms. Lucia Casabo, Ph.D.
Risk Assessor, Project Manager

RE: **Results of Indoor Air and Outdoor Ambient Air Analyses**
Nexus Church Building
3144 Cullman Avenue, Charlotte NC
W&R Project Number: 03130430.03

Dear Ms. Casabo,

As authorized by EnviroAnalytics Group, LLC (EAG) purchase order #2946 WithersRavenel (W&R) has completed the collection of indoor air and outdoor ambient air samples from the Nexus Church building located at 3144 Cullman Avenue in Charlotte, NC. The samples were submitted to ESC Lab Sciences (ESC) where they were analyzed for 1,1 dichloroethene (1,1 DCE), cis 1,2 dichloroethene (cis 1,2 DCE), trans 1,2 dichloroethene (trans 1,2 DCE), tetrachloroethylene (PCE), trichloroethylene (TCE) and vinyl chloride (VC) by EPA Method TO 15 Selected Ion Method (SIM). This report provides description and documentation of the sampling activities and the results of the laboratory analyses.

Documentation of Sampling Activities

On August 26, 2015 W&R representatives Brian Bellis and Christopher Fay visited the subject site to collect samples of indoor air and outdoor ambient air. W&R met with Pastor Noah Manyika, who is the owner of the building at 3144 Cullman Avenue and leader of the Nexus Church. Pastor Manyika assisted W&R in completing the Indoor Air Building Survey and Sampling Form that is included in **Attachment A** and provided access to the inside of the building. W&R then deployed three individually certified six-liter summa canisters each equipped with 24-hour flow controllers inside the building at the approximate locations shown in **Figure 1**. One of the canisters was placed on a table in the approximate center of the Fellowship Hall (sample ID IA-1 Fellowships). The remaining two canisters were placed side by side on a table located near the approximate center of the sanctuary (sample IDs IA-2 Sanctuary and Dup Sanctuary). Following deployment of the canisters, W&R and Pastor Manyika left the building and locked the door.

W&R then deployed three individually certified six-liter summa canisters with 24-hour flow controllers at locations between five and fifteen feet from the southern, northern and western exterior walls of the building (sample IDs Ambient Air South, Ambient Air North and Ambient

Air West). These ambient air sampling locations were reviewed and approved by Mr. Ken Rhame, an on-site representative of EPA. Photographs showing the locations of the indoor air and outdoor air sampling locations and starting vacuum pressures on the summa canister are provided in **Attachment B.** The canisters were secured using chains and locks to inert features associated with the building to discourage theft of the canisters while they remained outside overnight.

W&R returned to subject site approximately 24 hours later on August 27, 2015 to close and retrieve the six summa canisters. Pastor Manyika provided access to the inside of the church and it appeared that the outdoor ambient air canister were not tampered with overnight. Copies of the W&R field log book pages that document the sampling locations and starting and ending vacuum pressures for each canister are provided in **Attachment C.** W&R then transported the samples under chain of custody to a FedEx location in Matthews NC where they were transported via priority overnight delivery to ESC for analysis.

Results of Laboratory Analyses

The results of TO 15 SIM analysis on the six summa canister samples are summarized below:

Table 1: Indoor Air and Outdoor Ambient Air Sampling Results
Nexus Church Building: 3144 Cullman Avenue, Charlotte NC

Sample ID	Sampling Apparatus	ESC Canister ID Number	Start Sampling Date (mm/dd/yy)	End Sampling Date (mm/dd/yy)	1,1 Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethylene	Trichloroethylene	Vinyl chloride
					(ug/m^3)					
IA-1 FELLOWSHIPS	Six Liter Summa	1055 SIM	8/26/15	8/27/15	<0.0793	<0.0793	<0.0793	**6.24**	**6.15**	<0.0511
IA-2 SANCTUARY	Six Liter Summa	960 SIM	8/26/15	8/27/15	<0.0793	<0.0793	<0.0793	**5.77**	**5.9**	<0.0511
DUP SANCTUARY	Six Liter Summa	716 SIM	8/26/15	8/27/15	<0.0793	<0.0793	<0.0793	**5.64**	**5.71**	<0.0511
AMBIENT AIR SOUTH	Six Liter Summa	811 SIM	8/26/15	8/27/15	<0.0793	<0.0793	<0.0793	**0.198**	**0.244**	<0.0511
AMBIENT AIR NORTH	Six Liter Summa	12 SIM	8/26/15	8/27/15	<0.0793	<0.0793	<0.0793	<0.136	<0.107	<0.0511
AMBIENT AIR WEST	Six Liter Summa	93 SIM	8/26/15	8/27/15	<0.0793	<0.0793	<0.0793	<0.136	**0.18**	<0.0511

Notes: IA = Indoor air sample. See Figure 1 for sample locations.
Ambient = Outdoor ambient air sample. See Figure 1 for sample locations.
All samples were 24-hour composites.
ESC = ESC Lab Sciences: Certified laboratory that performed TO 15 SIM analyses.
Samples analyzed by EPA TO15 Selected Ion Method. See lab report for details.

These results are summarized by location in **Figure 1,** and the ESC analytical report and chain of custody record are provided in **Attachment D.**

Comparison of Indoor Air Sampling Results to NC and EPA Screening Levels

According to the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management the Residential Vapor Intrusion Screening Level for PCE is 8.34 mg/m^3. All of the detected concentrations of PCE in the indoor air samples shown in **Table 1** are below this screening level.

According to an e-mail from on-site EPA representative Ken Rhame to EAG, the screening level established by EPA for TCE in ambient air at the Nexus Church is 8 mg/m^3 (see **Attachment E**). All of the detected concentrations of TCE in the indoor air samples shown in **Table 1** are below this screening level.

W&R has provided a verbal report of the findings contained in this report to Dr. Noah Manyika, who is the owner of the building at 3144 Cullman Avenue property and leader of the Nexus Church. We recommend providing a copy of this report to Dr. Manyika for his records.

W&R appreciates the opportunity to be of assistance to EAG. Should you have any questions or comments regarding the contents of this report, please do not hesitate to contact us at 919-469-3340.

Sincerely,

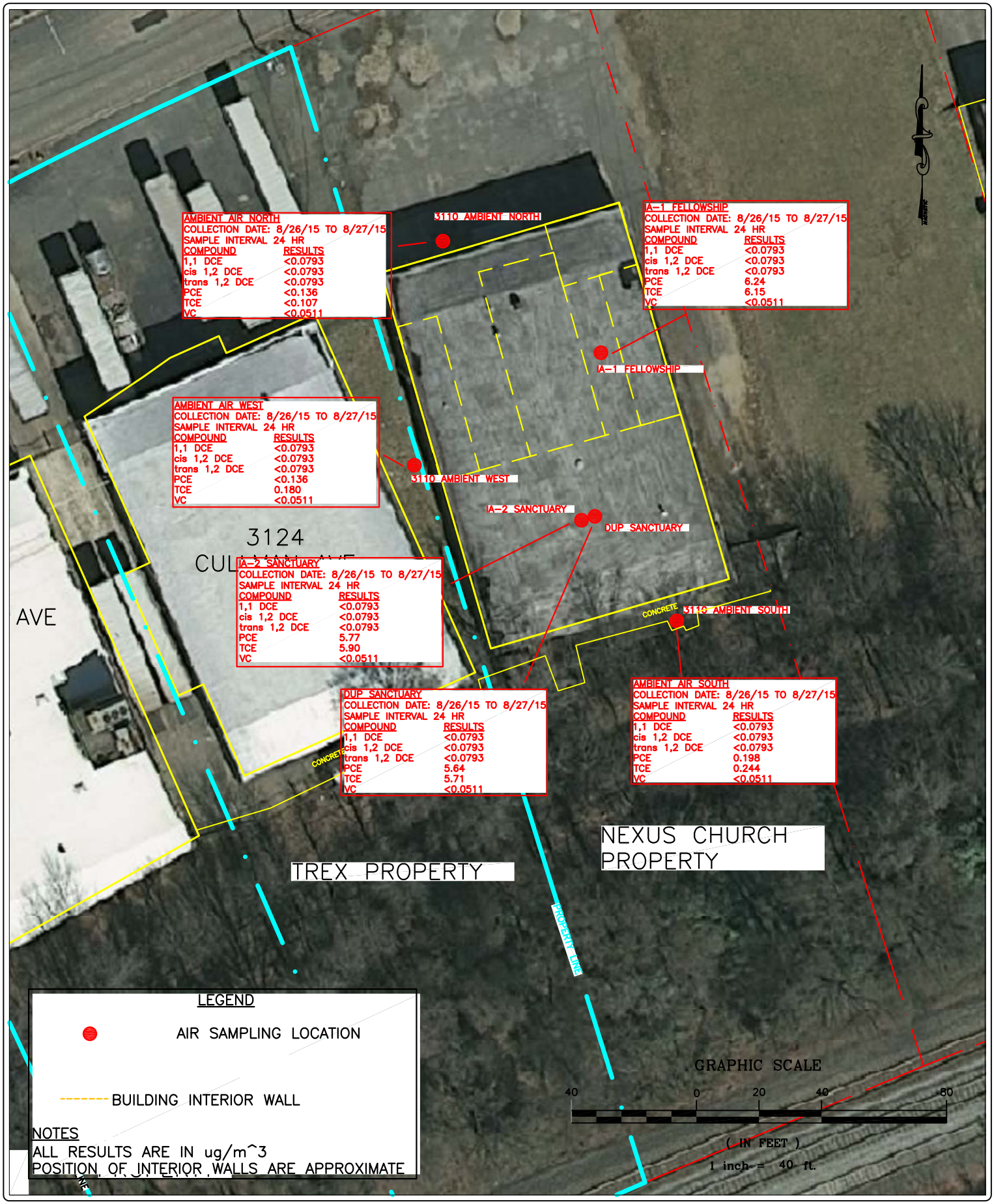
WithersRavenel

Brian J. Bellis, P.G.
Project Manager

Christopher Fay
Project Geologist

Enclosures:

Figure 1:	Indoor Air and Ambient Air Sampling Locations and Analytical Results
Attachment A:	Indoor Air Building Survey and Sampling Form
Attachment B:	Photo Documentation of Indoor Air and Outdoor Ambient Air Sampling
Attachment C:	W&R Field Log Book Pages for August 26 & 27, 2015
Attachment D:	Laboratory Analytical Reports
Attachment E:	EPA Screening Level for TCE



WITHERS & RAVENEL

ENGINEERS I PLANNERS I SURVEYORS

111 MacKenan Drive Cary, North Carolina 27511 tel: 919-469-3340 www.withersravenel.com License No. C-0832

NEXUS CHURCH 3144 CULLMAN AVE.
CHARLOTTE, NORTH CAROLINA

INDOOR AIR AND SUB-SLAB SAMPLING LOCATIONS AND ANALYTICAL RESULTS

DRAWN BY:	SCALE:	FIGURE NO.
CF	1"=40	1
APPROVED BY:	DATE:	JOB NO:
BB	9/14/15	03130430

W:\13\13-0430\130430.03-TREX AIR & SOIL VAPORSAMPLING\CAD\TREX PROPERTY - BASEMAP-AIR SAMPLING.DWG 9/14/2015 2:07 PM FAY, CHRISTOPHER 1:1

Attachment A:

Indoor Air Building Survey and Sampling Form
Nexus Church: 3144 Cullman Avenue, Charlotte, NC

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Site Name: Neyles Church DSCAID#: NA

Preparer's name: BRIAN BELLIS Date: 8/26/15

Preparer's affiliation: TREX CONSULTANT Phone #: 919-730-7482

Part I - Occupants

Building Address: 3144 Cullman Ave

Property Contact: NOAH MANYIKA Owner / Renter / other: Owner

Contact's Phone: home (704) 500-9853 work ( ) _____ cell ( ) _____

# of Building occupants: Children under age 13 ____ Children age 13-18 ____ Adults ____ NA

Part II – Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial OTHER

Describe building: FORMER WAREHOUSE Now Church Year constructed: 1960s

Sensitive population: day care / nursing home / hospital / school / other (specify): Church

Number of floors below grade: 0 (full basement / crawl space / slab on grade) Raised Slab above fill dirt

Number of floors at or above grade: 1

Depth of basement below grade surface: NA ft. Basement size: NA ft^2

Basement floor construction: concrete / dirt / floating / stone / other (specify): NA

Foundation walls: poured concrete / cinder blocks / stone / other (specify) _____

Basement sump present? *Yes* / *No* Sump pump? *Yes* / *No* Water in sump? *Yes* / *No*

Type of heating system (circle all that apply):

hot air circulation — hot air radiation — wood — steam radiation
heat pump — hot water radiation — kerosene heater — electric baseboard
other (specify): Gas natural

Type of ventilation system (circle all that apply):

central air conditioning — mechanical fans — bathroom ventilation fans
individual air conditioning units — kitchen range hood fan — outside air intake
other (specify): _____

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? *Yes* / *No* NA

Is there a whole house fan? *Yes* / *No*

Septic system? *Yes* / *Yes (but not used)* / *No*

Irrigation/private well? *Yes* / *Yes (but not used)* / *No*

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? *Yes* / *No* *active / passive*

Sub-slab vapor/moisture barrier in place? *Yes* / *No*
Type of barrier: _____

Part III - Outside Contaminant Sources

Other stationary sources nearby (gas stations, emission stacks, etc.): DiTrex 40 west

Heavy vehicular traffic nearby (or other mobile sources): Yes Truck traffic + heavy Equip for rail Construction

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	None	
Gas-powered equipment	None	
Kerosene storage cans	None	
Paints / thinners / strippers	Formerly but removed	Yes
Cleaning solvents	Removed last week	Yes
Oven cleaners	None	
Carpet / upholstery cleaners	None	
Other house cleaning products	Removed	
Moth balls	None	
Polishes / waxes	None	
Insecticides	None	
Furniture / floor polish	None	
Nail polish / polish remover	None	
Hairspray	None	
Cologne / perfume	None	
Air fresheners	None	
Fuel tank (inside building)	No	NA
Wood stove or fireplace	No	NA
New furniture / upholstery	No	
New carpeting / flooring	No	NA
Hobbies - glues, paints, etc.	No	

Part V – Miscellaneous Items

Do any occupants of the building smoke? *Yes* / *No* How often? _____

Last time someone smoked in the building? Unk hours / *days* *ago*

Does the building have an attached garage directly connected to living space? *Yes* / *No*

If so, is a car usually parked in the garage? *Yes* / *No*

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? *Yes* / *No*

Do the occupants of the building have their clothes dry cleaned? *Yes* / *No* Occasionally

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? *Yes* / *No*

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? *Yes* / *No*

Have any pesticides/herbicides been applied around the building or in the yard? *Yes* / No Unk

If so, when and which chemicals? Not lately

Has there ever been a fire in the building? *Yes* / *No* If yes, when? _____

Has painting or staining been done in the building in the last 6 months? *Yes* / *No*

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: CHRIS FAY DRIAN BELLIS Phone number: (910) 256 - 9277

Sample Source: Indoor Air / Crawlspace Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): 6 Liter

Analytical Method: TO-15 / TO-17 / other: SIM PCE, TCE, cis 1,2 DCE trans 1,2 DCE Cert. Laboratory: ESC NC # ENV375

Sample locations (floor, room):

24hr flow reg #640

Field ID # IA-1 - Fellowship hall Can # 1055 SIM Field ID # IA-2 - Sanctuary Can # 960 SIM 24hr flow reg #660

Field ID # DUP IA-2 - Sanctuary Can # 716 SIM Field ID # ____ - _____

24hr flow reg #598

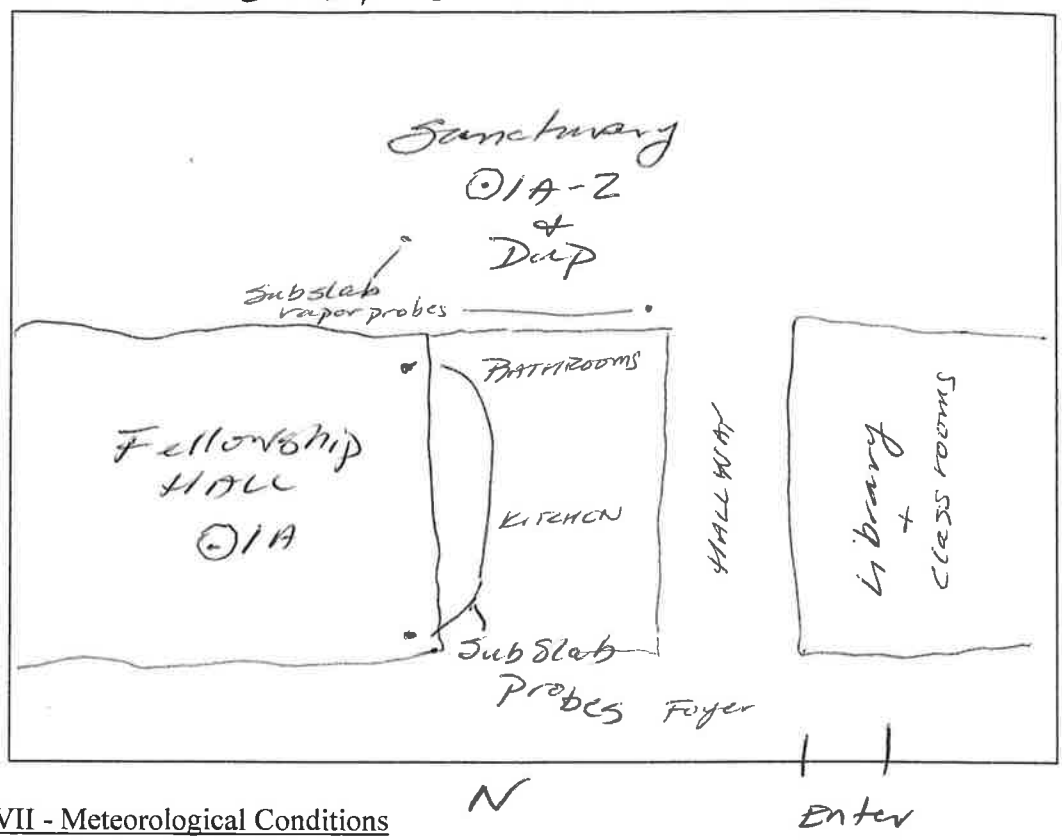
Were "Instructions for Occupants" followed? *Yes* / *No* NA

If not, describe modifications: _____

5

Provide Drawing of Sample Location(s) in Building

3144 Cullman Ave



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? *Yes / No*

Describe the general weather conditions: Sunny Clear. Breeze out of the northeast

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process (e.g., observed that drycleaner operated with door or windows propped open for ventilation).

Windows and doors all closed. Interior of building neat and orderly. Building locked by owner following deployment of canisters

(Adapted from the NJDEP Vapor Intrusion Guidance, October 2005)

Attachment B

Photo Documentation of Indoor Air and
Outdoor Ambient Air Sampling
Nexus Church:3144 Cullman Avenue, Charlotte, NC

Photo #1: Southeast looking view of 3144 Cullman Avenue, which is currently occupied by Nexus Church.

Photo #2: Six liter summa canister secured below stairs that provide access to Nexus Church.

Photo #3: Summa canister under stairs concealed with plastic bag for added security.

Photo #4: Six liter summa canister deployed on former loading dock to south of 3144 Cullman Avenue. Note ~-30 inches mercury vacuum at start of 24 hour composite sampling.

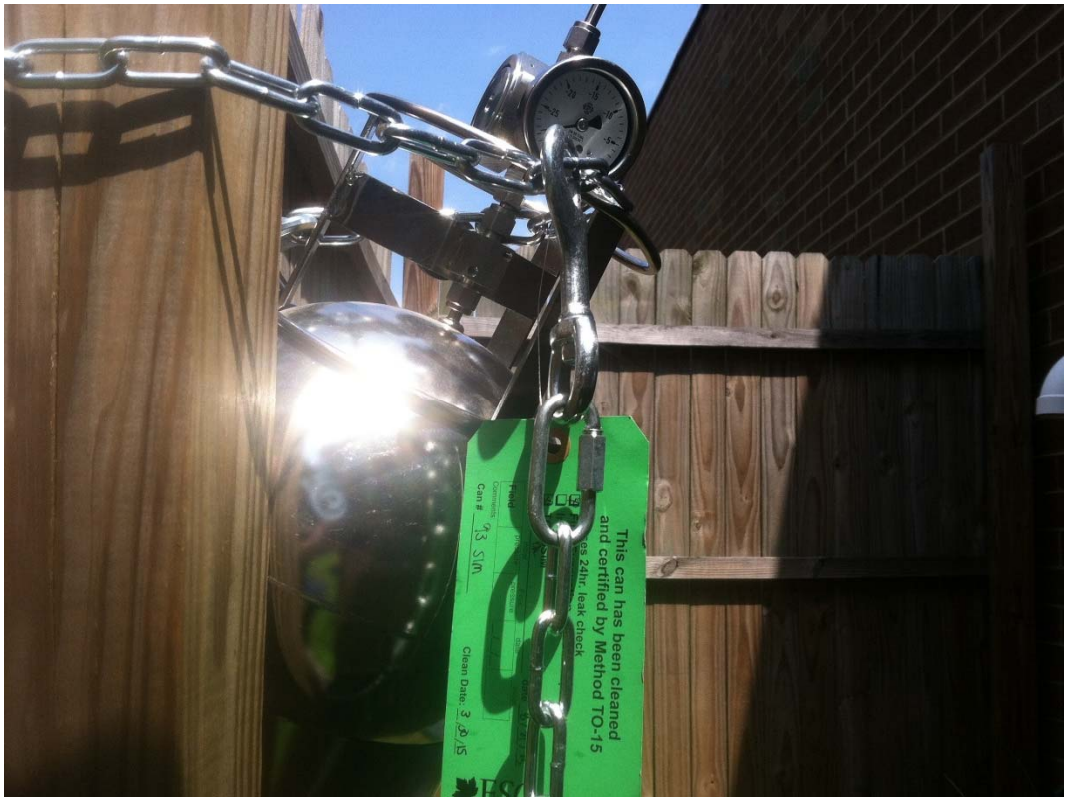


Photo #5: Six liter summa canister secured to wooden fence that formerly surrounded air conditioning unit to west of 3144 Cullman Avenue.

Photo #6: Prevailing wind direction was out of the northeast on the date of outdoor ambient air sample collection at 3144 Cullman Avenue. Wind sock in northern portion of Trex property at 3124 Cullman Ave

Photo #7: Sub slab vapor probe installed by EPA in sanctuary portion of Nexus Church.

Photo #8: Six liter summa canister and its duplicate at start of 24-hour composite indoor air sampling within Nexus Church sanctuary.

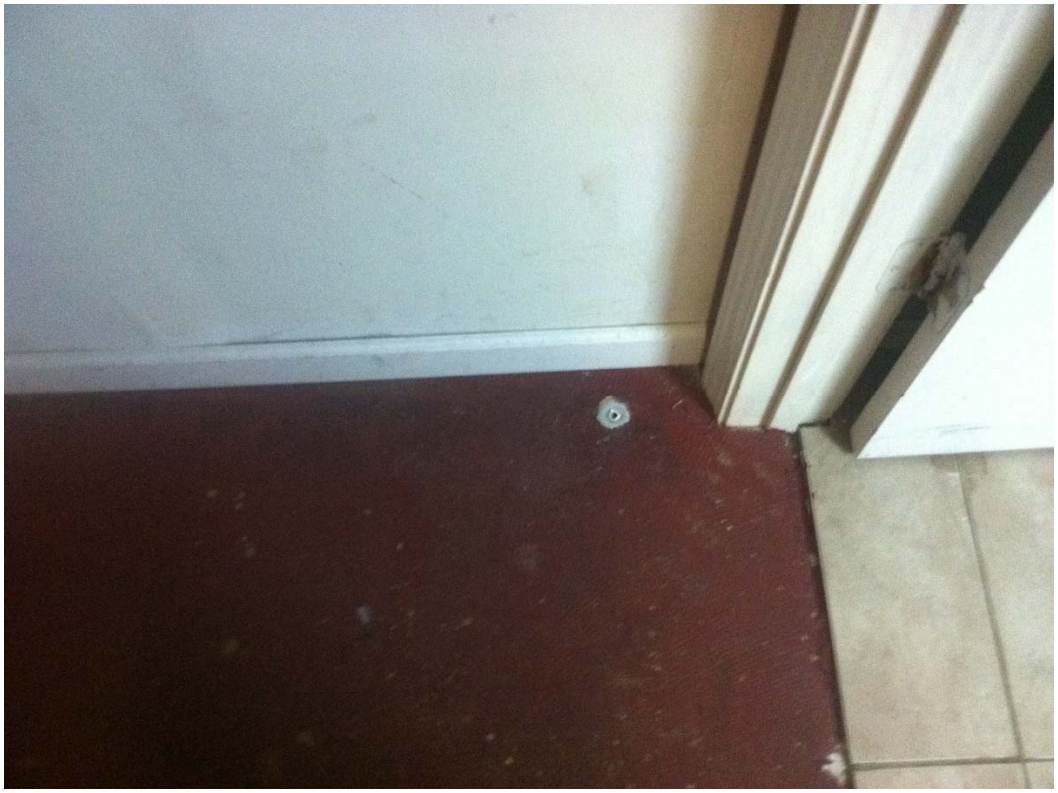


Photo #9: Sub slab vapor probe installed by EPA in fellowship hall portion of Nexus Church.

Photo #8: Six liter summa canister at start of 24-hour composite indoor air sampling in fellowship hall.

Attachment C

W&R Field Log Book Pages for August 26 & 27, 2015
Nexus Church:3144 Cullman Avenue, Charlotte, NC

Trex Property, Inc.

Pine Environmental Services, Inc.

The Environmental Supply and Support People
Rentals - Sales - Repairs

Field Book

Project # 03130430.01

Trex Property, Inc.

12/12/14 Trex CFAJ

drum count

35 water
37 soil

1230 leave site

mob 1230 - 1730

8/26/15 TREX B. Bellis

0600hrs Leave Wilmington NC w/ Chris Fay in WTR vehicle NR 645

0930hrs Arrive @ Swagelok in Matthews NC to pick up fitting for sampling port of sub-slab vapor probes we will be installing in "Leather Trimmins" building.

1020hrs Arrive @ 3114 Cullman Ave meet w/ David Craig of EAG

10^30 hrs Move to Rexus Church parking lot and wait for Pastor Noah Manyika
- Fill out 1A sampling for w/ assistance from pastor
- Deploy 6-Liter Summa Sim canisters in Fellowship Hall & Sanctuary

8/20/15 BJB 8/20/15 Trey B. Bellis

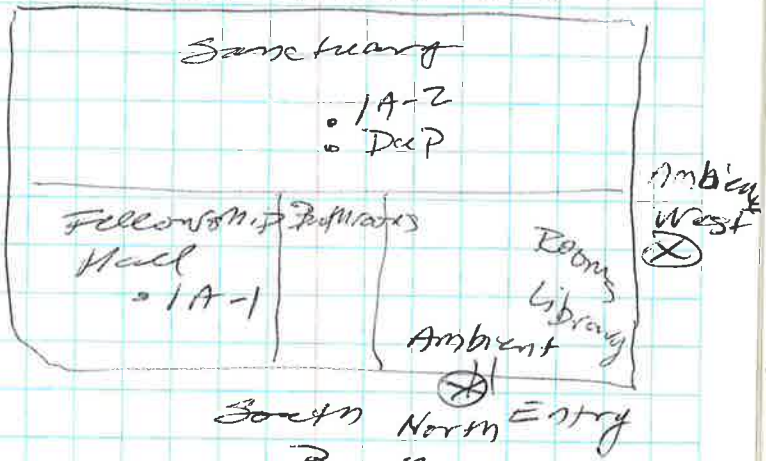
Canisters Labelled as follows

1A-1 Fellowship Can #1055SIA
24 hr Flow Reg #640
START SAMPLE 11:15 AM
START VAC - 29" Hg
1A-2 Sanctuary Can #960SIM
24 hr Flow Reg #660
START SAMPLE 11:16 AM
START VAC - 30" Hg
Dup Sanctuary Can #716SIM
24 hr Flow Reg # ~~X~~ 598
BJB 8/20/15
START SAMPLE 11:17 AM
START VAC - 29" Hg

11:20hrs Take photos of canisters & subslab probe points & clear Bldg. pester cocks for tonight + will return tomorrow to etc. & retrieve samples

8/20/15 Trey B. Bellis

North & ambient South
3144 Lellman AVE



- 11:30 Brent A from NE Hazwaste Section arrives + Chris from State Pur. of Investig arrives. Show Brent 1A sample locations

- 11:35 Ken Rhemmes of EPA arrives. Discuss 1A sample placement + candidate location for outdoor ambient air samples.

8/26/15 Trey B. Bellis

- Deploy Ambient Air South chained to chain link fences
  Can # 811 SIM
  24hr flow reg # 533
  Start Sample: 1208 pm
  Vac Start - 30" Hg

- Deploy Ambient Air North chained to wooden stair case at Bldg. entry below stair
  Can # 12 SIM 1
  24hr Flow reg # 645 pm
  Start Sample 12:05 pm
  Start Vac - 29" Hg
  BJB 8/26/15

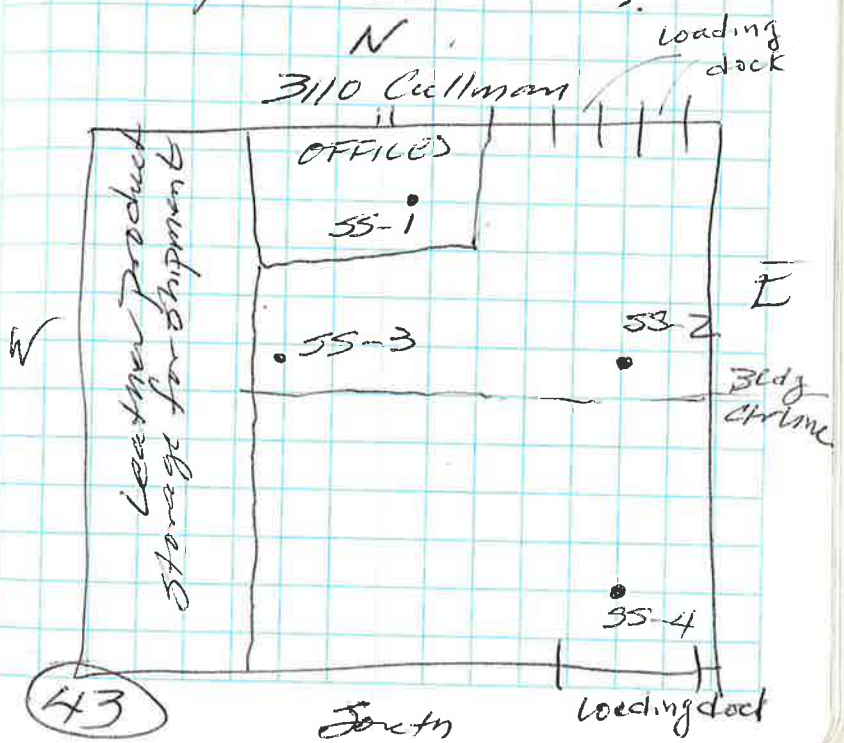
- Deploy ambient air West between 3144 + 3124 Cullman ave chained to wooden fence
  Can # 93 SIM
  24hr Flow reg # 659
  Start Sample 12:04 pm
  Start vac - 28.5" Hg

(42) Wind out of northeast accdg to wind sock @ 3114 and real time App.

8/26/15 Trey B. Bellis

- 1200 hrs disguise/hide North ambient air sample, in plastic bag w/ Ken Rhemmes approval

- 1215 hrs move to Leather Trimm facility meet w/ Patrick Speckman, discuss plan for sub slab probes.
  - Take pictures of facility and plan probe locations.

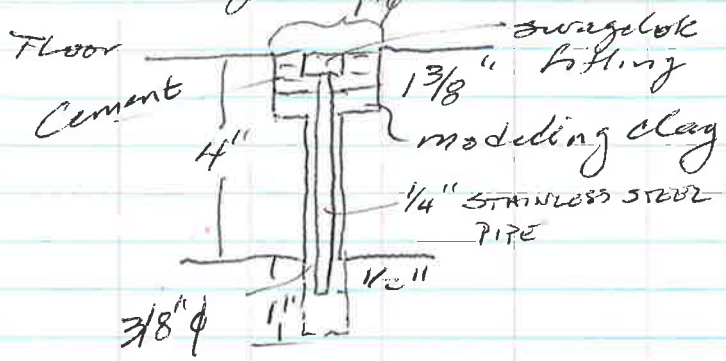


(43)

8/26/15 Trex B. Bellis

- Begin drilling through concrete floor @ location 55-2 @ 1300hrs
  - Slab is ~4" Thick
  - Extend boring an additional 1" and cut 1/4" stainless steel pipe length of 4.5"

- Diagram of 3110 Cullman 55-2

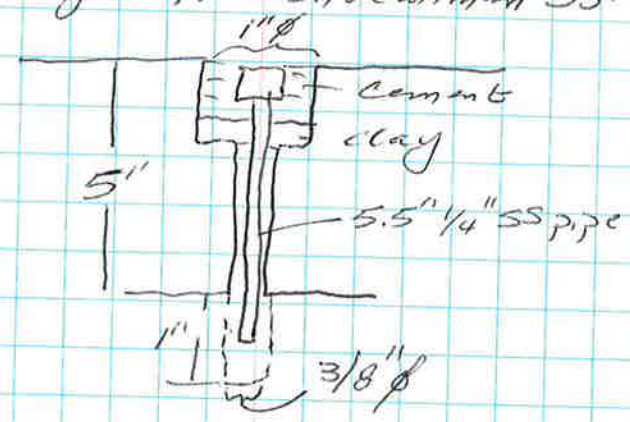


- Finish 55-2 @ 1330hrs
- Move to 55-4 by rear loading dock

1335hrs Begin drilling 55-4
- Concrete is 5" Thickher
- Drill additional 1" to access subslab vapor

8/26/15 TREX B. Bellis

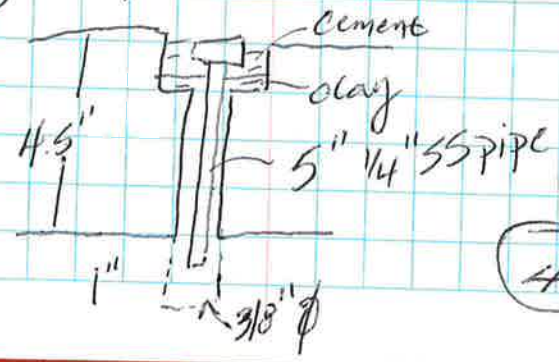
- Diagram for 3110 Cullman 55-4



- Finish 55-4 installation @ 1350hrs

- Begin 3110 Cullman Ave 55-3 @ 1355hrs
  - Concrete slab is ~4.5" Thickher
  - Advance 3/8" Boring additional 1" into subslab.

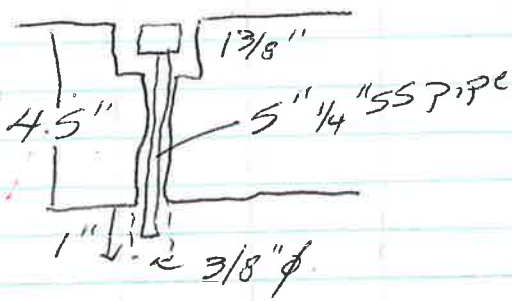
- Diagram for 3110 Cullman 55-3



8/26/15 TREX B. Bellis

1405hrs Finish SS-3
- move to SS-1 near front offices/foyer
3110
Begin Cullman SS-1 @ 1410hrs
- Slab is ~4.5" Thick here
- Advance 3/8"ϕ boring add'l 1"

Diagram for 3110 Cullman SS-1



- Finish SS-1 @ 1430hrs
- Cleanup, move tools to vehicle
- Mix hydraulic cement to seal tops of probes, Take photos
- 1500hrs Vacuum on North ambient air summa = ~24" Hg South = ~26 Hg West = 24" Hg
LEAVE SITE @ 1505hrs E.O.D

8/27/15 TREX B. Bellis

- Arrive on-site 0930hrs w/ Chris Fay. Check vac pressure on three ambient air canisters:

North: -10" Hg : 0935Am
South: -13" Hg : 0936 Am
West: -8" Hg : 0938 Am

- Weather: Partly cloudy/sunny & breezy. Prevailing wind direction out of the north-east according to iphone app "Wundermap" 9:41Am and wind sock @ 3114 Cullman Ave (see photo).

- No rainfall during the night or morning since samplers deployed.

- Check to see if nearby monitor wells are accessible & if they are covered by rail construction supplies & equipment. See photos

BJB 8/27/15

8/27/15 TREX B.Bellis

10:15 hrs: MW-8, 8A, -11, 11A, 9, 9A, 9B appear to be accessible. MW-13 is covered by rock again and large crane. Off-site wells to the NW could not be found.

10:25 hrs Talk w/ Patrick Speckman @ leather shop re ambient air sampling + sub slab sampling next week.

- Mr. Speckman has a shipment coming in Monday so will have to open cargo door to receive, which could bypass sample
- Mr. Speckman suggested it would be better for us to come on Sunday (8/30) to collect sample.
- I will check with client to see if this is ok
- Mr. Speckman will not complete indoor air survey questionnaires until his lawyer approves form.

8/27/15 TREX B.Bellis

10:30 hrs - Take photos of possible ambient air sample locations near leather shop.

- Area behind Hogan furniture to west next to leather shop has saw-dust stained brown stream off their loading dock on the ground.
- Two 55 gal. drums of #3 fuel oil w/ hand pump observed on loading dock (see photos)

- 10:45 hrs return to Nexus church to check canisters

West - 6" Hg 10:45 hrs
South - 12" Hg 10:48 hrs
North - 9" Hg 10:50 hrs

- Retrieve Church canisters after Pastor Arrives at 11:30 AM

8/27/15 TROY B. Bellis

1055SM

1A-1 FELLOWSHIP RETRIEVED @
11:35hrs -6" Hg

1A-2 Sanctuary can 960SM
11:37hrs -6.9" Hg

DUP Sanctuary can #716SM
11:38hrs -5.5" Hg

Retrieve ambient air samples as follows

AMBIENT AIR WEST can # 935SM
12:04hrs - 5" Hg

AMBIENT AIR NORTH can # 125SM
12:05hrs - 7.5" Hg

AMBIENT AIR SOUTH can # 811SM
12:08hrs - 11" Hg

12:20 Stop by 3110 Cullman to see if Mr. Speckman will help fill out 1A sampling form
- Mr. Speckman asked if we could wait until 13:00hrs.

8/27/15 TROY B. Bellis

- 1310hrs Interview Mr. Speckman re indoor air sampling form

- 1330hrs Leave site after talking with David Craig go let him know we are done with site work for this week.
  - Chris will return on March. David gave us key + access code to alarm 0819.

- Arrive @ Fedex 14:13hrs drop canisters to lab

- Arrive in Lexington 1800hrs
E.O.D.

Attachment D

Laboratory Analytical Reports
24-Hour Composite Indoor Air and Outdoor Ambient Air Samples
Nexus Church:3144 Cullman Avenue, Charlotte, NC

ANALYTICAL REPORT

August 31, 2015

Withers & Ravenel Eng. - Standard

Sample Delivery Group:	L785621
Samples Received:	08/28/2015
Project Number:	03130430
Description:	Trex - Charlotte
Report To:	Brian Bellis 115 MacKenan Drive Cary, NC 27511

Entire Report Reviewed By:

Jimmy Hunt
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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1A-1 FELLOWSHIPS L785621-01 Air

Collected by Bellis/Fay | Collected date/time 08/27/15 11:35 | Received date/time 08/28/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG812087	1	08/28/15 12:35	08/28/15 12:35	MBF

1A-2 SANCTUARY L785621-02 Air

Collected by Bellis/Fay | Collected date/time 08/27/15 11:37 | Received date/time 08/28/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG812087	1	08/28/15 13:20	08/28/15 13:20	MBF

DUP SANCTUARY L785621-03 Air

Collected by Bellis/Fay | Collected date/time 08/27/15 11:38 | Received date/time 08/28/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG812087	1	08/28/15 14:05	08/28/15 14:05	MBF

AMBIENT AIR SOUTH L785621-04 Air

Collected by Bellis/Fay | Collected date/time 08/27/15 12:08 | Received date/time 08/28/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG812087	1	08/28/15 14:50	08/28/15 14:50	MBF

AMBIENT AIR NORTH L785621-05 Air

Collected by Bellis/Fay | Collected date/time 08/27/15 12:05 | Received date/time 08/28/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG812087	1	08/28/15 15:37	08/28/15 15:37	MBF

AMBIENT AIR WEST L785621-06 Air

Collected by Bellis/Fay | Collected date/time 08/27/15 12:04 | Received date/time 08/28/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG812087	1	08/28/15 16:24	08/28/15 16:24	MBF

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the

Jimmy Hunt

Jimmy Hunt
Technical Service Representative

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG812087
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG812087
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG812087
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.919	6.24		1	WG812087
Trichloroethylene	79-01-6	131	0.0200	0.107	1.15	6.15		1	WG812087
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG812087
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*105*				WG812087

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG812087
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG812087
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG812087
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.850	5.77		1	WG812087
Trichloroethylene	79-01-6	131	0.0200	0.107	1.10	5.90		1	WG812087
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG812087
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG812087

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG812087
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG812087
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG812087
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.831	5.64		1	WG812087
Trichloroethylene	79-01-6	131	0.0200	0.107	1.07	5.71		1	WG812087
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG812087
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*106*				WG812087

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG812087
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG812087
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG812087
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.0291	0.198		1	WG812087
Trichloroethylene	79-01-6	131	0.0200	0.107	0.0456	0.244		1	WG812087
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG812087
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*105*				WG812087

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG812087
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG812087
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG812087
Tetrachloroethylene	127-18-4	166	0.0200	0.136	ND	ND		1	WG812087
Trichloroethylene	79-01-6	131	0.0200	0.107	ND	ND		1	WG812087
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG812087
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*105*				WG812087

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG812087
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG812087
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG812087
Tetrachloroethylene	127-18-4	166	0.0200	0.136	ND	ND		1	WG812087
Trichloroethylene	79-01-6	131	0.0200	0.107	0.0336	0.180		1	WG812087
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG812087
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG812087

Method Blank (MB)

(MB) 08/28/15 11:04

Analyte	MB Result ppb	MB Qualifier	MB RDL ppb
1,1-Dichloroethene	ND		0.0200
cis-1,2-Dichloroethene	ND		0.0200
trans-1,2-Dichloroethene	ND		0.0200
Tetrachloroethylene	ND		0.0200
Trichloroethylene	ND		0.0200
Vinyl chloride	ND		0.0200
(S) 1,4-Bromofluorobenzene	*95.7*		*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 08/28/15 09:32 • (LCSD) 08/28/15 10:18

Analyte	Spike Amount ppb	LCS Result ppb	LCSD Result ppb	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1-Dichloroethene	0.500	0.421	0.422	84.2	84.3	70.0-130			0.0700	25
cis-1,2-Dichloroethene	0.500	0.419	0.415	83.9	83.1	70.0-130			0.960	25
trans-1,2-Dichloroethene	0.500	0.430	0.426	86.0	85.2	70.0-130			0.890	25
Tetrachloroethylene	0.500	0.420	0.420	84.0	84.1	70.0-130			0.130	25
Trichloroethylene	0.500	0.411	0.413	82.1	82.6	70.0-130			0.580	25
Vinyl chloride	0.500	0.419	0.420	83.8	84.0	70.0-130			0.260	25
(S) 1,4-Bromofluorobenzene				*97.4*	*97.8*	*60.0-140*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

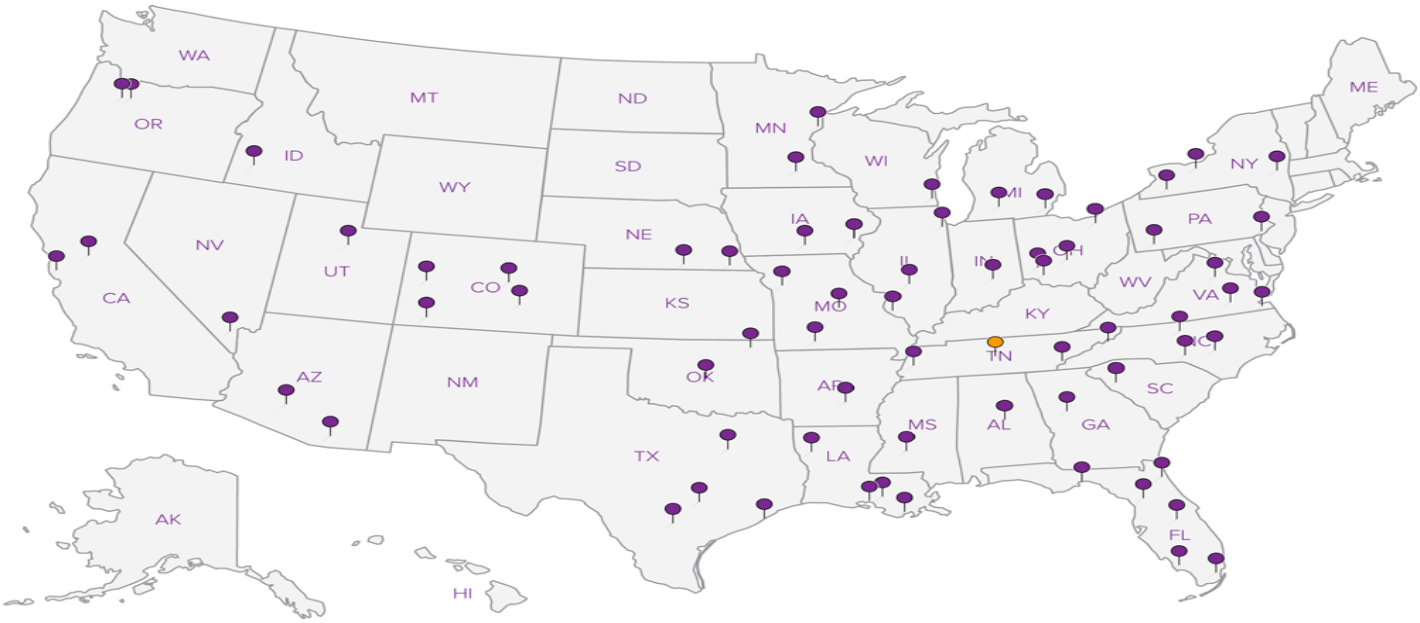
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Withers & Ravenel Eng. - Standard

115 MacKenan Drive
Cary, NC 27511

Billing Information:
Accounts Payable
115 MacKenan Drive
Cary, NC 27511

Report to: Brian Bellis

Email To: bbellis@withersravenel.com

Project Description: Trex - Charlotte

City/State Collected: Charlotte, NC 8/27/15

Phone: 919-469-3340
Fax: 919-467-6008

Client Project # 03130430

Lab Project # WITHRAVS-03130430

Collected by (print): BELLIS/FAY

Site/Facility ID #

P.O. #

Collected by (signature): Brian Bellis

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
X Three Day 25%

Date Results Needed: 8/31/15 IF POSSIBLE

Email? ___No X Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15SIM Summa Trans 1,2 DCE + 11 DCE only (PCE, TCE, CS1,2DCE, Vinylchloride)										Rem./Contaminant	Sample # (lab only)
1A-1 FELLOWSHIP CAN # 1055 SIM	24hr C	Air	NA	8/26/15 8/27/15	11:15 AM 11:30 AM	1	X											-01
1A-2 SANCTUARY CAN # 960 SIM	24hr C	Air		8/26/15 8/27/15	11:16 AM 11:37 AM	1	X											-02
DUP SANCTUARY CAN # 716 SIM	24hr C	Air		8/26/15 8/27/15	11:17 AM 11:38 AM	1	X											-03
AMBIENT AIR SOUTH CAN # 811 SIM	24hr C	Air		8/26/15 8/27/15	12:08 PM 12:08 PM	1	X											-04
AMBIENT AIR NORTH CAN # 12 SIM	24hr C	Air		8/26/15 8/27/15	12:05 PM 12:05 PM	1	X											-05
AMBIENT AIR WEST CAN # 93 SIM	24hr C	Air		8/26/15 8/27/15	12:07 PM 12:07 PM	1	X											-06
		Air				1	X											

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: ****Log for a 3 day TAT****

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page ___ of ___

ESC LABS SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 785621
L173
Acctnum: WITHRAVS
Template: T105071
Prelogin: P521198
TSR: 350 - Jimmy Hunt
PB: BAK 8-21-15
Shipped Via: FedEX Ground

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Brian Bellis	8/27/15	12:15PM	FEDEX
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Shey Neam

Samples returned via: ☑ FedEx ☐ UPS ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 6

Date: 8-28-15 Time: 900

Condition: (lab use only) 24 hr Fedex AV 6

COC Seal Intact: ___Y ___N ✓ NA

pH Checked: NCF:

Attachment E

EPA Screening Level for TCE
Nexus Church:3144 Cullman Avenue, Charlotte, NC

Bellis, Brian

Subject: FW: Additional Vapor Intrusion Work

From: Lucia Casabo [mailto:lcasabo@enviroanalyticsgroup.com]
Sent: Monday, October 05, 2015 3:51 PM
To: Bellis, Brian <bbellis@withersravenel.com>
Subject: FW: Additional Vapor Intrusion Work

Lucia Casabo

EnviroAnalytics Group

Ph: 919.960.9311

From: Kenneth Rhame [mailto:Rhame.Kenneth@epa.gov]
Sent: Tuesday, September 1, 2015 11:20 AM
To: Lucia Casabo <lcasabo@enviroanalyticsgroup.com>
Cc: Brent Burch <brent.burch@ncdenr.gov>
Subject: Re: Additional Vapor Intrusion Work

Our screening levels for indoor air at the church property is 8 micrograms per cubic meter. This was established considering sensitive populations (women of child bearing age and children) present.

Kenneth B Rhame
US EPA Region 4
On-Scene Coordinator
Raleigh, NC
(919) 475-7397 cell

On Sep 1, 2015, at 11:02 AM, Lucia Casabo <lcasabo@enviroanalyticsgroup.com> wrote:

> Hi Ken,
>
> We are in the process of evaluating potential screening levels for the Church indoor air.
>
> Please let me know which EPA screening level was referenced for TCE in the e-mail below.
>
> Thanks,
>
> Lucia Casabo
> **EnviroAnalytics Group, LLC**
> Ph: 919.960.9311

WithersRavenel
Our People. Your Success.

October 5, 2015

EnviroAnalytics Group, LLC
1650 Des Peres Road, Suite 303
Saint Louis, MO 63131

Attn.: Ms. Lucia Casabo, Ph.D.
Risk Assessor, Project Manager

RE: **Results of Indoor Air, Outdoor Air, and Sub Slab Vapor Analyses**
Leather Trimmings, LTD Building
3110 Cullman Avenue, Charlotte NC
W&R Project Number: 03130430.03

Dear Ms. Casabo,

As authorized by EnviroAnalytics Group, LLC (EAG) purchase order #2946 WithersRavenel (W&R) has completed the collection of indoor air, outdoor ambient air, and sub slab vapor samples from the Leather Trimmings building located at 3110 Cullman Avenue in Charlotte, NC. The indoor and outdoor air samples were submitted to ESC Lab Sciences (ESC) where they were analyzed for 1,1 dichloroethene (1,1 DEC), cis 1,2 dichloroethene (cis 1,2 DCE), trans 1,2 dichloroethene (trans 1,2 DCE), tetrachloroethylene (PCE), trichloroethylene (TCE) and vinyl chloride (VC) by EPA Method TO 15 Selected Ion Method (SIM). The sub slab vapor samples were also submitted to ESC for analysis of the same compounds using the standard EPA Method TO 15. This report provides description and documentation of the sampling activities and the results of the laboratory analyses.

Documentation of Sampling Activities

Installation of Sub Slab Vapor Probes

On August 26, 2015 W&R representatives Brian Bellis and Christopher Fay visited the subject site to install sub slab vapor probes within the floor of the facility. W&R met with Mr. Patrick Speckman, who is the owner of the building and Leather Trimmings business, and selected four candidate soil vapor probe locations. These locations were subsequently approved by Mr. Ken Rhame, an on-site representative of EPA. The approximate locations of the four probes identified as SSV-1 through SSV-4 are shown in **Figure 1**.

Each probe was installed in accordance with Scientific Engineering Response and Analytical Services (SERAS) Standard Operating Procedure (SOP) #2082, which is referenced in the Quality Assurance Project Plan for the Trex Properties Site prepared for the US EPA Environmental Response Team by Lockheed Martin (EPA QAPP) and dated April 18, 2015. Diagrams of each probe prepared at the time of installation are provided in the W&R field log book pages contained in **Attachment A**.

Collection of Indoor Air and Outdoor Ambient Air Samples

On August 31, 2015 W&R representative Christopher Fay returned to the Leather Trimmings site to deploy summa canisters for the collection of indoor air and outdoor ambient air samples. Mr. Fay met with Mr. Speckman who assisted W&R in completing the Indoor Air Building Survey and Sampling Form that is included in **Attachment B**, and who provided access to the inside of the building. W&R then deployed three individually certified six-liter summa canisters each equipped with 24-hour flow controllers inside the building at the approximate locations shown in **Figure 1**. One of the canisters was placed on a table in the in the northern portion of the building where two offices are located (sample ID 3110 IA-3). The remaining two canisters were placed side by side on a box located near the approximate center of the warehouse portion of the building (sample IDs 3110 IA-4 and 3110 Dup). Following deployment of the canisters, W&R and Mr. Speckman left the building and locked the door.

W&R then deployed three individually certified six-liter summa canisters with 24-hour flow controllers at locations between five and fifteen feet from the southern, northern and eastern exterior walls of the building (sample IDs 3110 Ambient South, 3110 Ambient North and 3110 Ambient East). Photographs showing the locations of the indoor air and outdoor air sampling locations and starting vacuum pressures on the summa canister are provided in **Attachment C.**

W&R returned to subject site approximately 24 hours later on September 1, 2015 to close and retrieve the six summa canisters. Mr. Speckman provided access to the inside of the building and it appeared that the outdoor ambient air canister were not tampered with overnight. Copies of the W&R field log book pages that document the sampling locations and starting and ending vacuum pressures for each canister are provided in **Attachment A**. After the six liter summa canisters were removed from the building, W&R proceeded with the collection of sub slab vapor samples as described in the following section.

Collection of Sub Slab Vapor Samples

Sub slab vapor sampling procedures followed by W&R were in accordance with SERAS SOP #2042, which is referenced in the EPA QAPP. Prior to collection of the sub slab vapor sample from each location, the probe was attached to a Foxboro Total Vapor Analyzer Model 1000 using Teflon® tubing and was purged for a ten minute period. The tubing was then attached to a one-liter summa canister equipped with a flow controller that limited the flow of vapor to a rate less than 200 ml/min. The canister valve was then closed and the cap was replaced on the soil vapor probe.

While unscrewing the cap for sub slab vapor probe SSV-2 to start the purging process, the stainless steel probe tubing became detached from the surrounding cement collar. To address this situation Mr. Fay used modeling clay to create a seal between the top of the probe and the Teflon tubing. A photograph that shows this clay seal is provided as Photo #10 of **Attachment C**. Following collection of the sub slab vapor sample from this location, Mr. Fay removed the stainless steel probe and filled the remaining hole in the floor slab with cement.

Copies of the W&R field logbook pages that document the sub slab vapor sampling activities are provided in **Attachment A.** Following collection of the last sub slab vapor sample, W&R transported the indoor air, outdoor ambient air and sub slab vapor samples under chain of custody to a FedEx location in Matthews NC where they were transported via priority overnight delivery to ESC for analysis.

Results of Laboratory Analyses

The results of TO 15 SIM analysis of the indoor air and outdoor ambient air samples are summarized below:

Table 1: Indoor Air and Outdoor Ambient Air Sampling Results
Leather Trimmings Facility: 3110 Cullman Avenue, Charlotte NC

Sample ID	Sampling Apparatus	ESC Canister ID Number	Start Sampling Date (mm/dd/yy)	End Sampling Date (mm/dd/yy)	1,1 Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethylene	Trichloroethylene	Vinyl chloride
					(ug/m^3)					
3110 IA-3	Six Liter Summa	314 SIM	8/31/2015	9/1/2015	**0.298**	<0.0793	<0.0793	**20.2**	**27.8**	<0.0511
3110 IA-4	Six Liter Summa	711 SIM	8/31/2015	9/1/2015	**0.312**	**0.97**	<0.0793	**18.1**	**25.3**	<0.0511
3110 DUP	Six Liter Summa	256 SIM	8/31/2015	9/1/2015	**0.296**	**0.96**	<0.0793	**18.6**	**25.9**	<0.0511
3110 AMBIENT NORTH	Six Liter Summa	452 SIM	8/31/2015	9/1/2015	<0.0793	**0.364**	<0.0793	**1.09**	**1.87**	<0.0511
3110 AMBIENT EAST	Six Liter Summa	16 SIM	8/31/2015	9/1/2015	<0.0793	**0.277**	<0.0793	**3.49**	**3.77**	<0.0511
3110 AMBIENT SOUTH	Six Liter Summa	1592 SIM	8/31/2015	9/1/2015	<0.0793	<0.0793	<0.0793	**1.72**	**2.29**	**0.0962**

Notes: IA = Indoor air sample. See Figure 1 for sample locations.
Ambient = Outdoor ambient air sample. See Figure 1 for sample locations.
All samples were 24-hour composites.
ESC = ESC Lab Sciences: Certified laboratory that performed TO 15 SIM analyses.
Samples analyzed by EPA TO15 Selected Ion Method. See lab report for details.

The results of TO 15 analysis of the sub slab vapor samples are summarized on the following page.

Table 2: Sub Slab Vapor Sampling Results
Leather Trimmings Facility: 3110 Cullman Avenue, Charlotte NC

Sample ID	Sampling Apparatus	ESC Canister ID Number	Sampling Date (mm/dd/yy)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethylene	Trichloroethylene	Vinyl chloride
				(ug/m^3)					
3110 SSV-1	One Liter Summa	# 567	9/1/15	**108**	**214**	**12.2**	**5690**	**29100**	<4.09
3110 SSV-2	One Liter Summa	# 1983	9/1/15	**105**	**7.18**	<1.59	**1200**	**1760**	<1.02
3110 SSV-3	One Liter Summa	# 785	9/1/15	**286**	**1340**	**125**	**2870**	**28500**	<4.09
3110 SSV-4	One Liter Summa	# 1976	9/1/15	**5.99**	**2.19**	<1.59	**1480**	**1880**	<1.02

Notes: SSV = Sub slab vapor sample. See Figure 1 for sample locations.
All samples obtained at a rate less than 200 milliliters per minute.
ESC = ESC Lab Sciences: Certified laboratory that performed TO 15 analyses.
Samples analyzed by EPA TO15. See lab report for details.

These results are summarized by location in **Figure 1**, and the ESC analytical reports and chain of custody records are provided in **Attachment D**.

Comparison of Indoor Air Sampling Results to NC and EPA Screening Levels

According to the North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management the Non-Residential Vapor Intrusion Screening Level for 1,1 DCE is 175 ug/m^3 and that for PCE is 35 mg/m^3. All of the detected concentrations of these two compounds in the indoor air samples shown in **Table 1** are below these screening levels. Neither EPA nor NCDENR has established a screening level for cis 1,2 DCE.

According to an e-mail from on-site EPA representative Ken Rhame to EAG, the screening level established by EPA for TCE in ambient air at the Leather Trimmings site is 8.8 mg/m^3 (see **Attachment E**). The concentrations of TCE reported for the three indoor air samples shown in **Table 1** exceed this screening level by relatively small margins.

W&R has provided a verbal report of the findings contained in this report to Mr. Speckman, the owner of Leather Trimmings property and business. We recommend providing a copy of this report to Mr. Speckman for his records.

W&R appreciates the opportunity to be of assistance to EAG. Should you have any questions or comments regarding the contents of this report, please do not hesitate to contact us at 919-469-3340.

Sincerely,

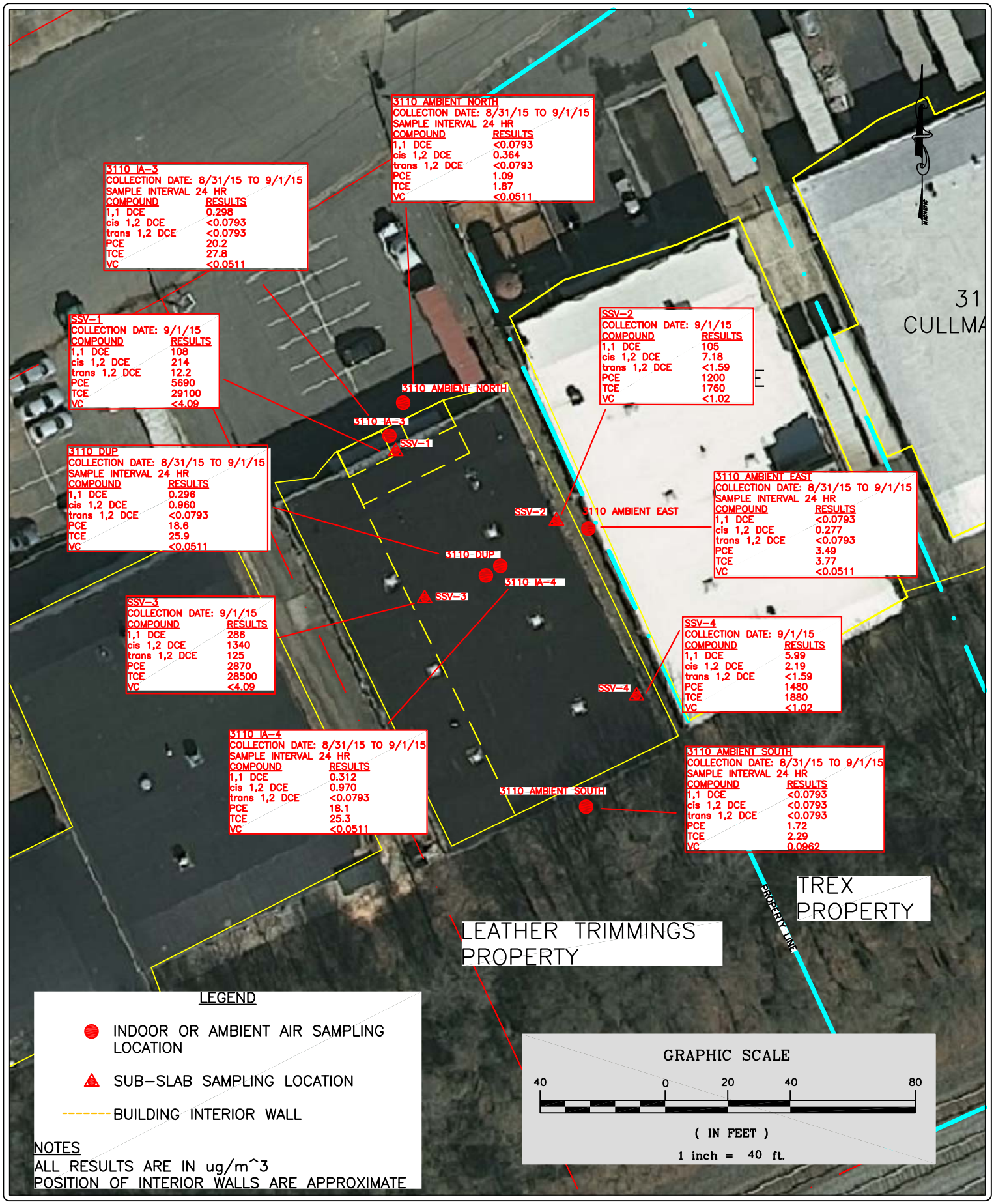
WithersRavenel

Brian J. Bellis, P.G.
Project Manager

Christopher Fay
Project Geologist

Enclosures:

Figure 1: Indoor Air, Ambient Air and Sub Slab Sampling Locations and Analytical Results
Attachment A: W&R Field Log Book Pages
Attachment B: Indoor Air Building Survey and Sampling Form
Attachment C: Photo Documentation
Attachment D: Laboratory Analytical Reports and Chain of Custody Records
Attachment E: EPA Screening Level for TCE



WITHERS & RAVENEL

ENGINEERS I PLANNERS I SURVEYORS

111 MacKenan Drive Cary, North Carolina 27511 tel: 919-469-3340 www.withersravenel.com License No. C-0832

LEATHER TRIMMINGS 3110 CULLMAN AVE
CHARLOTTE, NORTH CAROLINA

INDOOR AIR, AMBIENT AIR AND SUB-SLAB SAMPLING LOCATIONS AND ANALYTICAL RESULTS

DRAWN BY:	SCALE:	FIGURE NO.
CF	1"=40'	1
APPROVED BY:	DATE:	JOB NO:
BB	9/14/15	03130430

W:\13\13-0430\130430.03-TREX AIR & SOIL VAPORSAMPLING\CAD\TREX PROPERTY - BASEMAP-AIR SAMPLING.DWG 9/17/2015 11:21 AM FAY, CHRISTOPHER 1:1

Attachment A:

W&R Field Log Book Pages
Leather Trimmings: 3110 Cullman Avenue, Charlotte, NC

Trex Property, Inc.

Pine Environmental Services, Inc.

The Environmental Supply and Support People
Rentals - Sales - Repairs

Field Book

Project # 03130430.01

Trex Property, Inc.

12/12/14 Trex CFAJ

drum count

35 water
37 soil

1230 leave site

mob 1230 - 1730

8/26/15 TREX B. Bellis

0600hrs Leave Wilmington NC w/ Chris Fay in WTR vehicle NR 645

0930hrs Arrive @ Swagelok in Matthews NC to pick up fitting for sampling port of sub-slab vapor probes we will be installing in "Leather Trimmins" building.

1020hrs Arrive @ 3114 Cullman Ave meet w/ David Craig of EAG

10^30 hrs Move to Rexus Church parking lot and wait for Pastor Noah Manyika
- Fill out 1A sampling for w/ assistance from pastor
- Deploy 6-Liter Summa Sim canisters in Fellowship Hall & Sanctuary

8/20/15 BJB 8/20/15 Trey B. Bellis

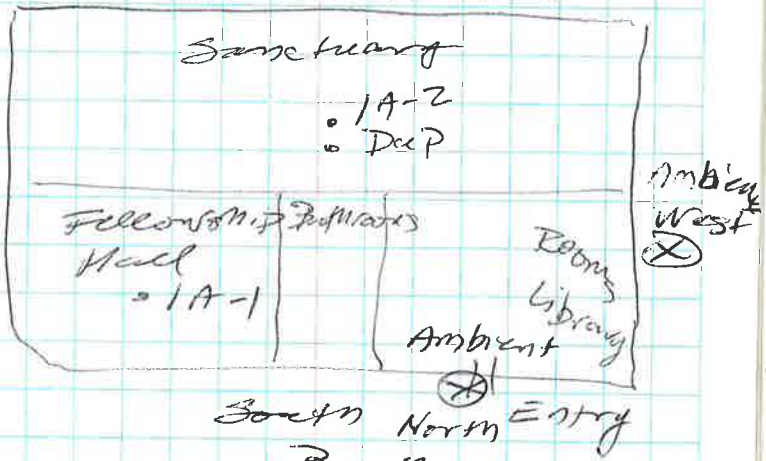
Canisters Labelled as follows

1A-1 Fellowship Can #1055SIA
24 hr Flow Reg #640
START SAMPLE 11:15 AM
START VAC - 29" Hg
1A-2 Sanctuary Can #960SIM
24 hr Flow Reg #660
START SAMPLE 11:16 AM
START VAC - 30" Hg
Dup Sanctuary Can #716SIM
24 hr Flow Reg # ~~X~~ 598
BJB 8/20/15
START SAMPLE 11:17 AM
START VAC - 29" Hg

11:20hrs Take photos of canisters & subslab probe points & clear Bldg. pester cocks for tonight + will return tomorrow to etc. & retrieve samples

8/20/15 Trey B. Bellis

North & ambient South
3144 Lellman AVE



- 11:30 Brent A from NE Hazwaste Section arrives + Chris from State Pur. of Investig arrives. Show Brent 1A sample locations

- 11:35 Ken Rhemmes of EPA arrives. Discuss 1A sample placement + candidate location for outdoor ambient air samples.

8/26/15 Trey B. Bellis

- Deploy Ambient Air South chained to chain link fences
  Can # 811 SIM
  24hr flow reg # 533
  Start Sample: 1208 pm
  Vac Start - 30" Hg

- Deploy Ambient Air North chained to wooden stair case at Bldg. entry below stair
  Can # 12 SIM 1
  24hr Flow reg # 645 pm
  Start Sample 12:05 pm
  Start Vac - 29" Hg
  BJB 8/26/15

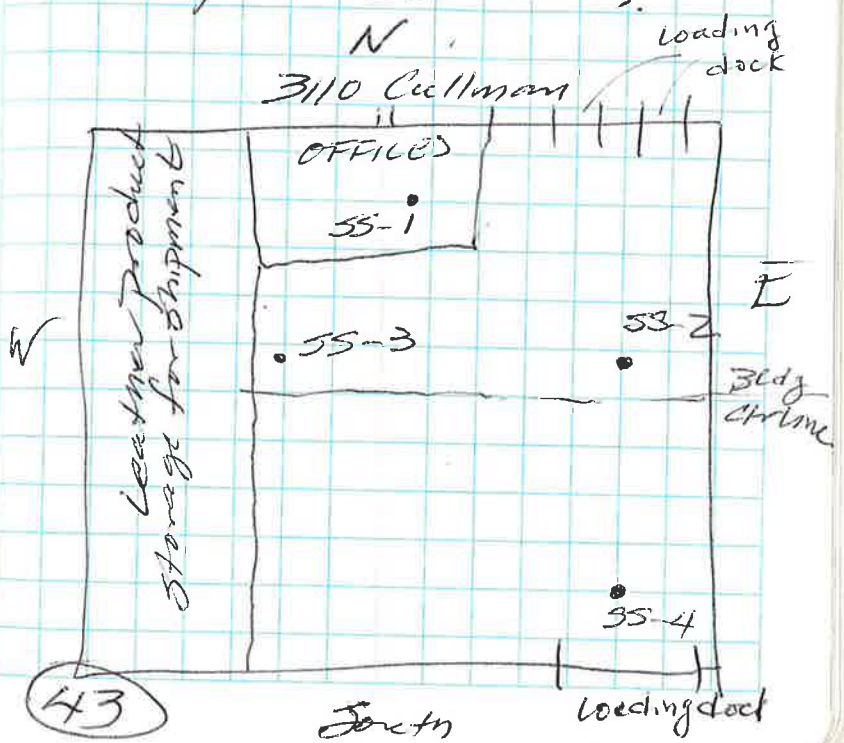
- Deploy ambient air West between 3144 + 3124 Cullman ave chained to wooden fence
  Can # 93 SIM
  24hr Flow reg # 659
  Start Sample 12:04 pm
  Start vac - 28.5" Hg

(42) Wind out of northeast accdg to wind sock @ 3114 and real time App.

8/26/15 Trey B. Bellis

- 1200 hrs disguise/hide North ambient air sample, in plastic bag w/ Ken Rhemmes approval

- 1215 hrs move to Leather Trimm facility meet w/ Patrick Speckman, discuss plan for sub slab probes.
  - Take pictures of facility and plan probe locations.

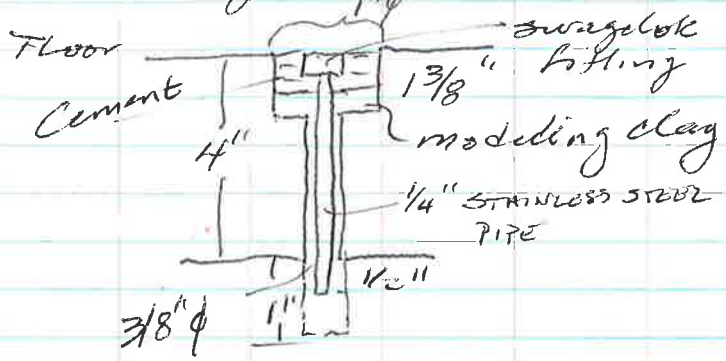


(43)

8/26/15 Trex B. Bellis

- Begin drilling through concrete floor @ location 55-2 @ 1300hrs
  - Slab is ~4" Thick
  - Extend boring an additional 1" and cut 1/4" stainless steel pipe length of 4.5"

- Diagram of 3110 Cullman 55-2

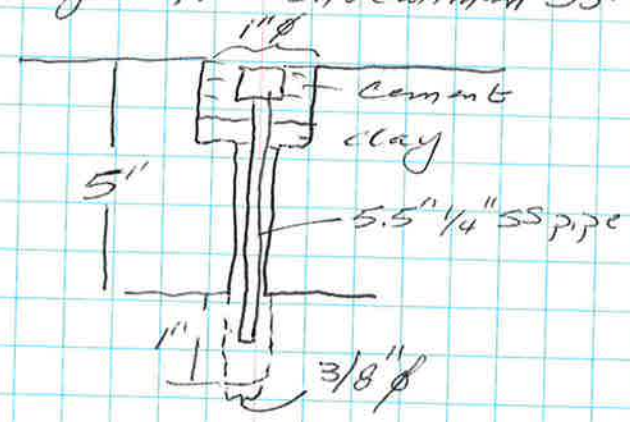


- Finish 55-2 @ 1330hrs
- Move to 55-4 by rear loading dock

1335hrs Begin drilling 55-4
- Concrete is 5" Thickher
- Drill additional 1" to access subslab vapor

8/26/15 TREX B. Bellis

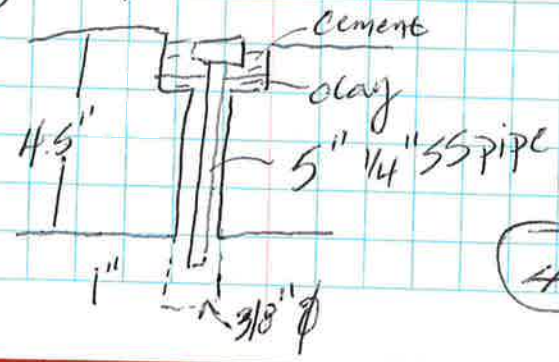
- Diagram for 3110 Cullman 55-4



- Finish 55-4 installation @ 1350hrs

- Begin 3110 Cullman Ave 55-3 @ 1355hrs
  - Concrete slab is ~4.5" Thickher
  - Advance 3/8" Boring additional 1" into subslab.

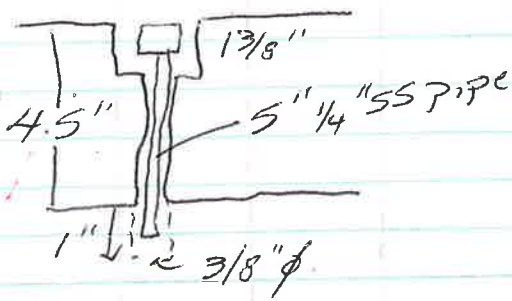
- Diagram for 3110 Cullman 55-3



8/26/15 TREX B. Bellis

1405hrs Finish SS-3
- move to SS-1 near front offices/foyer
3110
Begin Cullman SS-1 @ 1410hrs
- Slab is ~4.5" Thick here
- Advance 3/8"ϕ boring add'l 1"

Diagram for 3110 Cullman SS-1



- Finish SS-1 @ 1430hrs
- Cleanup, move tools to vehicle
- Mix hydraulic cement to seal tops of probes, Take photos
- 1500hrs Vacuum on North ambient air summa = ~24" Hg South = ~26 Hg West = 24" Hg
LEAVE SITE @ 1505hrs E.O.D

8/27/15 TREX B. Bellis

- Arrive on-site 0930hrs w/ Chris Fay. Check vac pressure on three ambient air canisters:

North: -10" Hg : 0935Am
South: -13" Hg : 0936 Am
West: -8" Hg : 0938 Am

- Weather: Partly cloudy/sunny & breezy. Prevailing wind direction out of the north-east according to iphone app "Wundermap" 9:41Am and wind sock @ 3114 Cullman Ave (see photo).

- No rainfall during the night or morning since samplers deployed.

- Check to see if nearby monitor wells are accessible & if they are covered by rail construction supplies & equipment. See photos

BJB 8/27/15

8/27/15 TREX B.Bellis

10:15 hrs: MW-8, 8A, -11, 11A, 9, 9A, 9B appear to be accessible. MW-13 is covered by rock again and large crane. Off-site wells to the NW could not be found.

10:25 hrs Talk w/ Patrick Speckman @ leather shop re ambient air sampling + sub slab sampling next week.

- Mr. Speckman has a shipment coming in Monday so will have to open cargo door to receive, which could bypass sample
- Mr. Speckman suggested it would be better for us to come on Sunday (8/30) to collect sample.
- I will check with client to see if this is ok
- Mr. Speckman will not complete indoor air survey questionnaires until his lawyer approves form.

8/27/15 TREX B.Bellis

10:30 hrs - Take photos of possible ambient air sample locations near leather shop.

- Area behind Hogan furniture to west next to leather shop has saw-dust stained brown stream off their loading dock on the ground.
- Two 55 gal. drums of #3 fuel oil w/ hand pump observed on loading dock (see photos)

- 10:45 hrs return to Nexus church to check canisters

West - 6" Hg 10:45 hrs
South - 12" Hg 10:48 hrs
North - 9" Hg 10:50 hrs

- Retrieve Church canisters after Pastor Arrives at 11:30 AM

8/27/15 TROY B. Bellis

1055SM

1A-1 FELLOWSHIP RETRIEVED @
11:35hrs -6" Hg

1A-2 Sanctuary can 960SM
11:37hrs -6.9" Hg

DUP Sanctuary can #716SM
11:38hrs -5.5" Hg

Retrieve ambient air samples as follows

AMBIENT AIR WEST can # 935SM
12:04hrs - 5" Hg

AMBIENT AIR NORTH can # 125SM
12:05hrs - 7.5" Hg

AMBIENT AIR SOUTH can # 811SM
12:08hrs - 11" Hg

12:20 Stop by 3110 Cullman to see if Mr. Speckman will help fill out 1A sampling form
- Mr. Speckman asked if we could wait until 13:00hrs.

8/27/15 TROY B. Bellis

- 1310hrs Interview Mr. Speckman re indoor air sampling form

- 1330hrs Leave site after talking with David Craig go let him know we are done with site work for this week.
  - Chris will return on March. David gave us key + access code to alarm 0819.

- Arrive @ Fedex 14:13hrs drop canisters to lab

- Arrive in Lexington 1800hrs
E.O.D.

8/31/15 Trex CFAY

03130430.03

mob 0530-1000

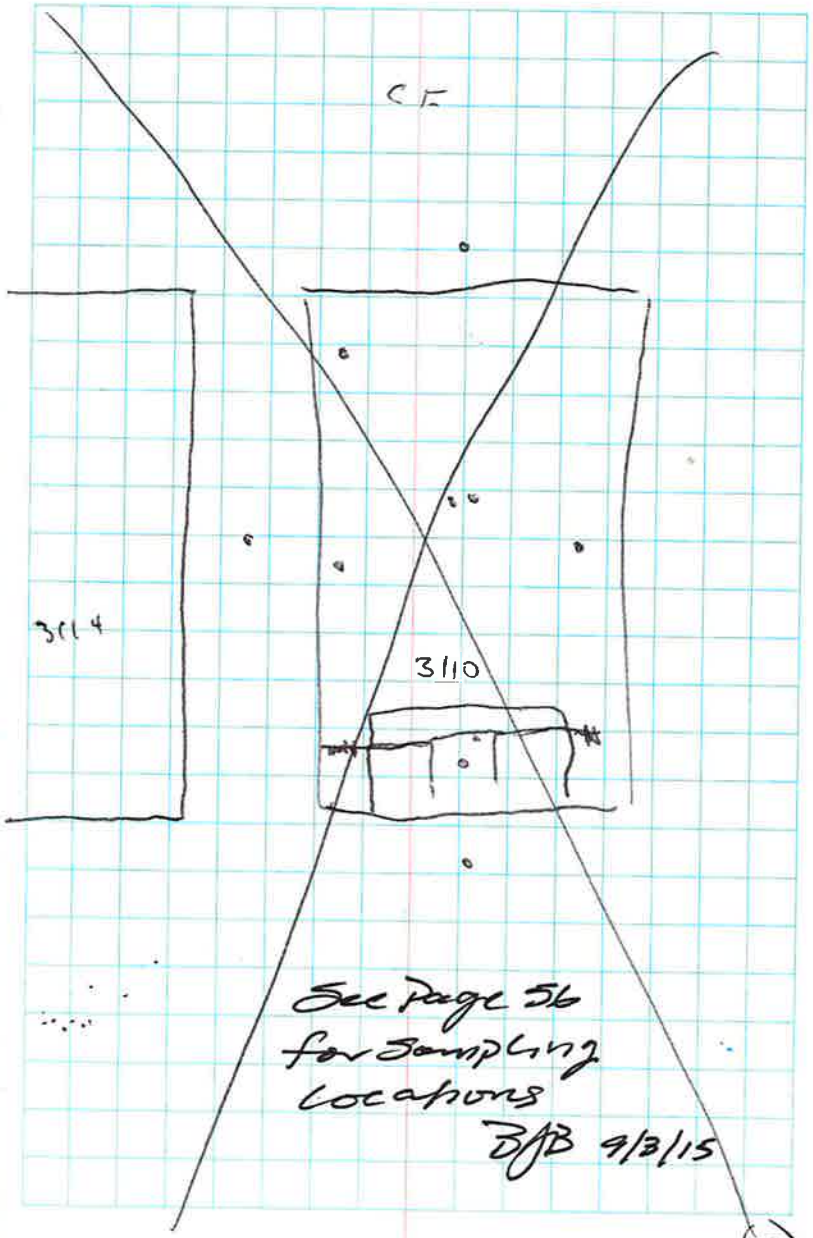
~~Ar~~ onsite, Mr speckman asked if I could start sampling @ 1300
I agreed

1030 locate & open all MW's

1200 weather 79°F light wind out of ENE, scoper out ambient air sampling locations L 70°F H 84°F

Mr speckman leaves site for a meeting, will be back @ 1300

Canister labels as follows
3110 IA-3 can# 31 A SIm
24hr contro # 350
start sample 1306 8/31/15
start vac ~~[illegible]~~ 29"Hg BJB 9/3/15
End sample 1306 9/1/15
End vac 7.5"Hg



See page 56 for sampling locations
BJB 9/3/15

8/31/15 Trex CFAY

3110 IA-4 can# 711 sim
24 hr reg # 650
Start time 1303 8/31/15
Start Vac 30" Hg B/B 9/3/15
End time 1303 9/1/15
End Vac -6" Hg

3110 Dup can# 256 SIM
24hr reg # 658
Start time 1304 8/31/15
Start Vac 29" Hg B/B 9/3/15
End time 1304 9/1/15
End Vac -6" Hg

3110
Ambient South can # 18592 SIM
24hr reg# 530
Start time 1310 8/31/15
Start Vac 29" Hg B/B 9/3/15
End time 1310 9/1/15
End Vac 4.5" Hg

8/31/15 Trex CFAY

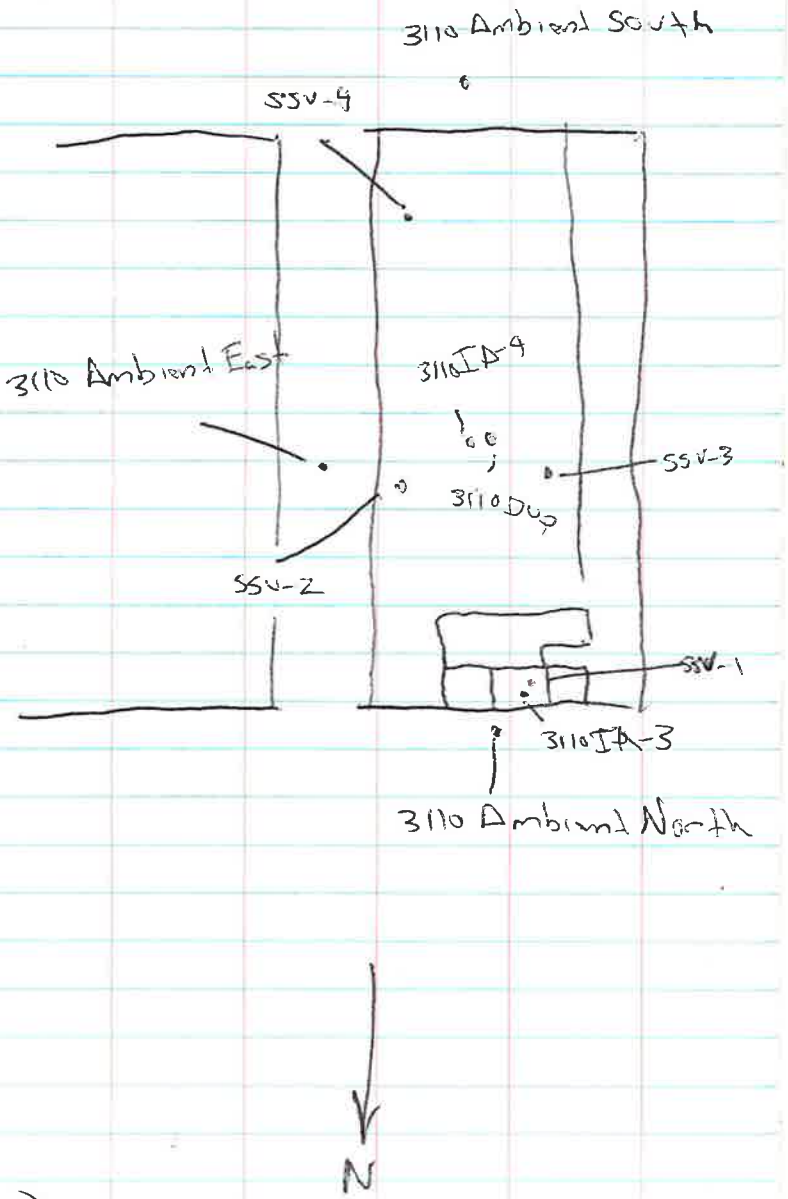
3110 Ambient East can# 16 SIM
24hr reg# 289
Start time 1312 8/31/15
Start Vac 30" Hg B/B 9/3/15
End time 1312 9/1/15
End Vac -5" Hg

3110 Ambient North can# 452 SIM
24hr reg #467
Start time 1308 8/31/15
Start Vac -29" Hg B/B 9/3/15
End time 1308 9/1/15
End Vac 7" Hg

1245 Mr Speelman onsite

set canisters outside in the building

8/31/15 Trex CFAY



8/31/15 Trex CFAY

1300 mr speckman is closing up shop
turn on IA-3, IA-4 & Dup sample
canisters

1330 turn on Ambient samples

1330 mr speckman leaves site
collect WLs

well ID	Depth to Water BTOC
PMW-22A	12.32
PMW-22B	11.96
PMW-11A	9.489
PMW-11B	9.28
PMW-10A	9.11
PMW-10B	9.18
PMW-9A	9.93
PMW-9B	10.21
PMW-9C	10.27
PMW-7A	9.28
PMW-7B	9.36
BMW-21A	8.72
PMW-21B	8.58

8/31/15 Trex CFAY

Well ID	Depth to Water BTOC
PMW-6A	7.42
PMW-5A	7.23
PMW-8A	10.59
PMW-8B	9.898
PMW-2A	9.21
PMW-2B	9.53
PMW-3A	9.29
PMW-1A	9.33
PMW-1B	9.26
PMW-20A	7.61
PMW-20B	8.38

1440 B Bellis calls for project update

1500 check Ambient cans

3110 Ambient North 27" Hg

3110 Ambient East 28.5" Hg

3110 Ambient South 28" Hg

1510 leave site

9/1/15 Trex CFAY

0930-1000 mob

1000 onsite, check Ambient samples

70.5°F light NNE wind

3110 Ambient North -10" Hg

3110 Ambient East -9" Hg

3110 Ambient South -8" Hg

1130 set up SSV canisters

Labled as follows

3110 SSV-1 can #1974 can 1974 no vac to use can #567

1hr reg# 457

start time 1330

start vac -30" Hg

End time 1340

End vac -5" Hg

purge 10 min

time	PID	FID
0	14.4	12.6 ppm
5	18.0	11.8 ppm
10	18.5	9.3 ppm

9/1/15 Trex CFAY

3110 SSV-2 can# 1983
1hr reg# 325
Start time 1345
Start vac -30
End time 1358
End Vac -5" Hg

purge 10 min

Time	PID	FID
0	9.5	0
5	23.3	5.4
10	25.7	5.7

3110 SSV-3 can# 785
1 hr reg# 460
Start time 1400
Start Vac -30
End time 1412
End vac -5" Hg

purge 10 min

Time	PID	FID
0	29.5	16.1
5	29.3	13.4
10	29.1	14.1

9/1/15 Trex CFAY

3110 SSV-4 can# 1976
1hr reg# 452
Start time 1415
~~End time~~ Start vac -30
End time 1422
End vac -5" Hg

purge 10 min

Time	PID	FID
0	13.6	3.6
5	8.2	2.8
10	7.2	2.7

1100
3110 ~~Amb~~ Ambient North -9" Hg
3110 Ambient East -7" Hg
3110 Ambient South -6" Hg

1230 warm up TVA

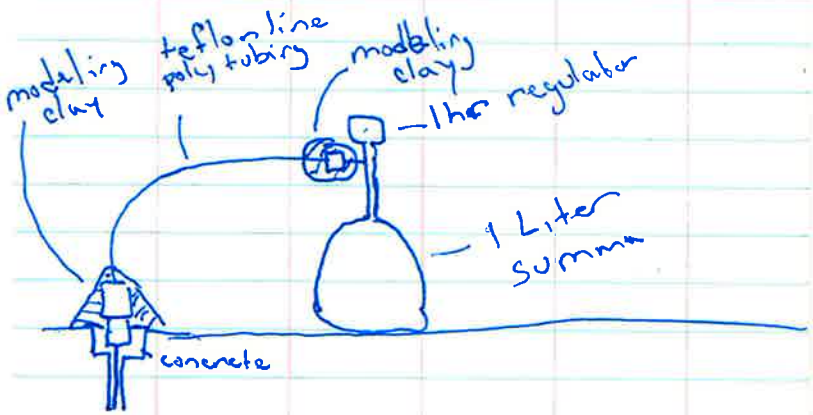
1245 calibrate TVA
used TVA to purge SSV probes

9/2/15 Trex CFM

1315 can # 1974 had no vacuum switched out with can # 567

1335 in taking off cap for SSV-2, the probe broke free of the concrete, used modeling clay to seal probe.

SSV schematic



1500 leave site

1530 drop off cans @ FedEx

1530 - 1900 mob

Attachment B

Indoor Air Building Survey and Sampling Form
Leather Trimmings: 3110 Cullman Avenue, Charlotte, NC

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Site Name: TREX

DSCAID#: Not Applicable

Preparer's name: BRIAN BELLIS

Date: 8/31/15

Preparer's affiliation: Consultant

Phone #: 919-469-3340

Part I - Occupants

Building Address: 3110 Coulimans Ave

Property Contact: PATRICK SPECKMAN (Owner) / Renter / other: _____

Contact's Phone: home ( ) _____ work (704) 347-1718 cell ( ) _____

# of Building occupants: Children under age 13 ____ Children age 13-18 ____ Adults 2

Part II – Building Characteristics

Building type: residential / multi-family residential / office / strip mall / (commercial / industrial)

Describe building: Warehouse Year constructed: 1960s 1963

Sensitive population: day care / nursing home / hospital / school / other (specify): NO

Number of floors below grade: 0 (full basement / crawl space / slab on grade)

Number of floors at or above grade: 1

Depth of basement below grade surface: NA ft. Basement size: NA ft^2

Basement floor construction: concrete / dirt / floating / stone / other (specify): NA

Foundation walls: poured concrete / [cinder blocks] / stone / other (specify) cinder block + brick

Basement sump present? *Yes* / (*No*) Sump pump? *Yes* / (*No*) Water in sump? *Yes* / (*No*)

Type of heating system (circle all that apply):

hot air circulation	hot air radiation	wood	steam radiation
heat pump	hot water radiation	kerosene heater	electric baseboard

other (specify): Gas space heater / Gas furnace

Type of ventilation system (circle all that apply):

central air conditioning	mechanical fans	bathroom ventilation fans
individual air conditioning units	kitchen range hood fan	outside air intake

other (specify): Office only air conditioning

Type of fuel utilized (circle all that apply):

[Natural gas] / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? *Yes* / *No* NA

Is there a whole house fan? *Yes* / *No*

Septic system? *Yes* / *Yes (but not used)* / *No*

Irrigation/private well? *Yes* / *Yes (but not used)* / *No*

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? *Yes* / *No* *active / passive*

Sub-slab vapor/moisture barrier in place? *Yes* / *No*
Type of barrier: _____

Part III - Outside Contaminant Sources

Other stationary sources nearby (gas stations, emission stacks, etc.): Next door Detrey

Heavy vehicular traffic nearby (or other mobile sources): Rail Construction Equip

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans	None	
Gas-powered equipment	None	
Kerosene storage cans	None	
Paints / thinners / strippers	Minor	
Cleaning solvents	Chloroax	
Oven cleaners	None	
Carpet / upholstery cleaners	None	
Other house cleaning products	None Bathroom	
Moth balls	None	
Polishes / waxes	None	
Insecticides	Wasp Spray can	
Furniture / floor polish	None	
Nail polish / polish remover	None	
Hairspray	None	
Cologne / perfume	None	
Air fresheners	Yes small Glade	
Fuel tank (inside building)	None	NA
Wood stove or fireplace	None	NA
New furniture / upholstery	Leather	
New carpeting / flooring	None	NA
Hobbies - glues, paints, etc.	Minor	

Part V – Miscellaneous Items

Do any occupants of the building smoke? *Yes* / *No* How often? _____

Last time someone smoked in the building? unk hours / *days* *ago*

Does the building have an attached garage directly connected to living space? *Yes* / *No*

If so, is a car usually parked in the garage? *Yes* / *No*

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? *Yes* / *No*

Do the occupants of the building have their clothes dry cleaned? *Yes* / *No*

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? *Yes* / *No*

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? *Yes* / *No*

Have any pesticides/herbicides been applied around the building or in the yard? *Yes* / No

If so, when and which chemicals? Round up Occassionally

Has there ever been a fire in the building? *Yes* / *No* If yes, when? _____

Has painting or staining been done in the building in the last 6 months? *Yes* / *No*

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Chris Fay Phone number: (919) 201 - 5768

Sample Source: Indoor Air / Crawlspace Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: _____

Sample locations (floor, room):

Field ID # 3110 IA-3 Field ID # 3110- ~~IA~~ Dup

Field ID # 3110- IA-4 Field ID # 3110- Ambient North

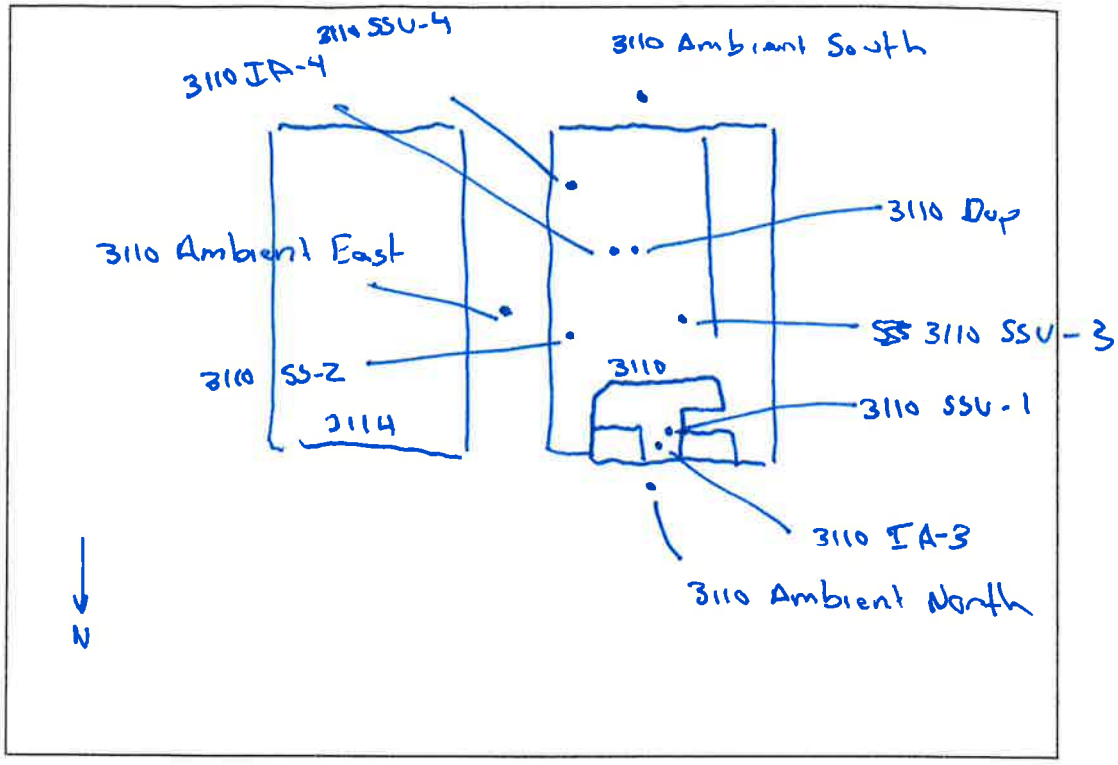
Were "Instructions for Occupants" followed? *Yes* / *No*

If not, describe modifications: _____

3110 Ambient East 3110 Ambient South

3110 SSV-1 3110 SSV-2 3110 SSV-3 3110 SSV-4

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? *Yes* / *No*

Describe the general weather conditions: Low's 70°F High mid 80's Light wind out of ENE mostly sunny - clear skies

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process (e.g., observed that drycleaner operated with door or windows propped open for ventilation).

(Adapted from the NJDEP Vapor Intrusion Guidance, October 2005)

Attachment C

Photo Documentation
Leather Trimmings: 3110 Cullman Avenue, Charlotte, NC

Photo #1: South looking view of 3110 Cullman Ave, which is currently occupied by Leather Trimmings.

Photo #2: Six liter summa canister for collection of 24-hour composite ambient air sample north of 3110 Cullman Avenue.

Photo #3: Summa canister east of 3110 Cullman Avenue showing starting vacuum pressure of ~-30 inches mercury vacuum at start of 24 hour composite sampling.

Photo #4: South looking view of summa canister deployed to east of 3110 Cullman Avenue.

Photo #5: West looking view of six liter summa canister deployed to south of 3110 Cullman Avenue for collection of 24-hour composite ambient air sample.

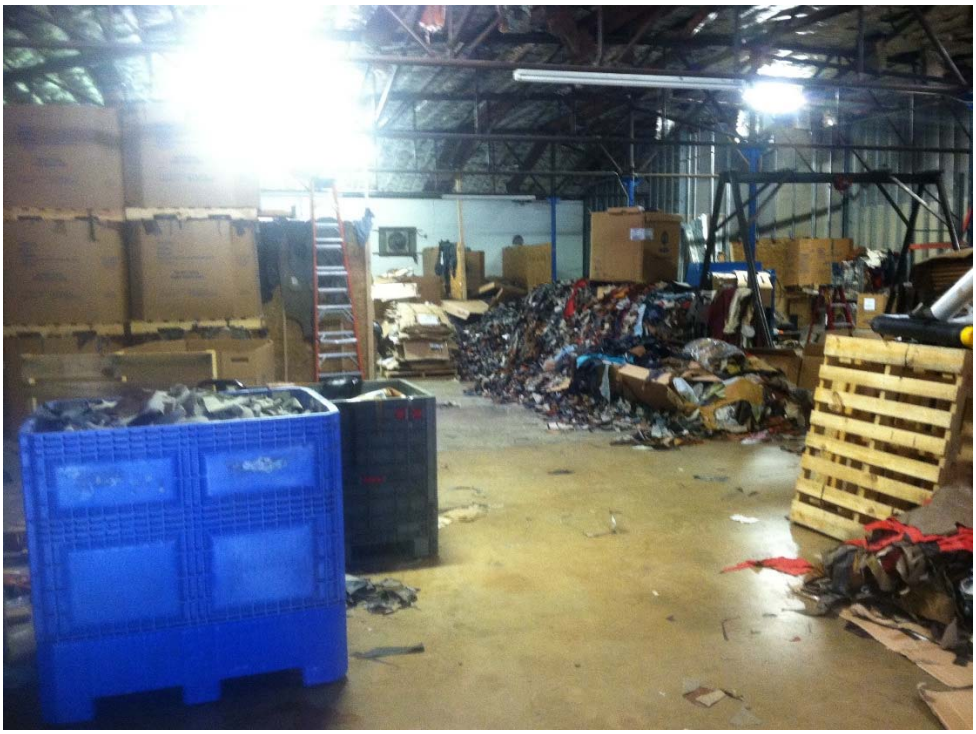


Photo #6: South facing view of inside main portion of Leather Trimmings facility.

Photo #7: Duplicate six liter summa canisters deployed in central portion of 3110 Cullman Avenue for collection of 24-hour composite indoor air samples.

Photo #8: Six liter summa canister deployed in front office area of 3110 Cullman Avenue at start of 24-hour composite indoor air sampling.

Photo #9: Pre-sample purging of sub slab vapor probe installed in office area of 3110 Cullman Avenue.

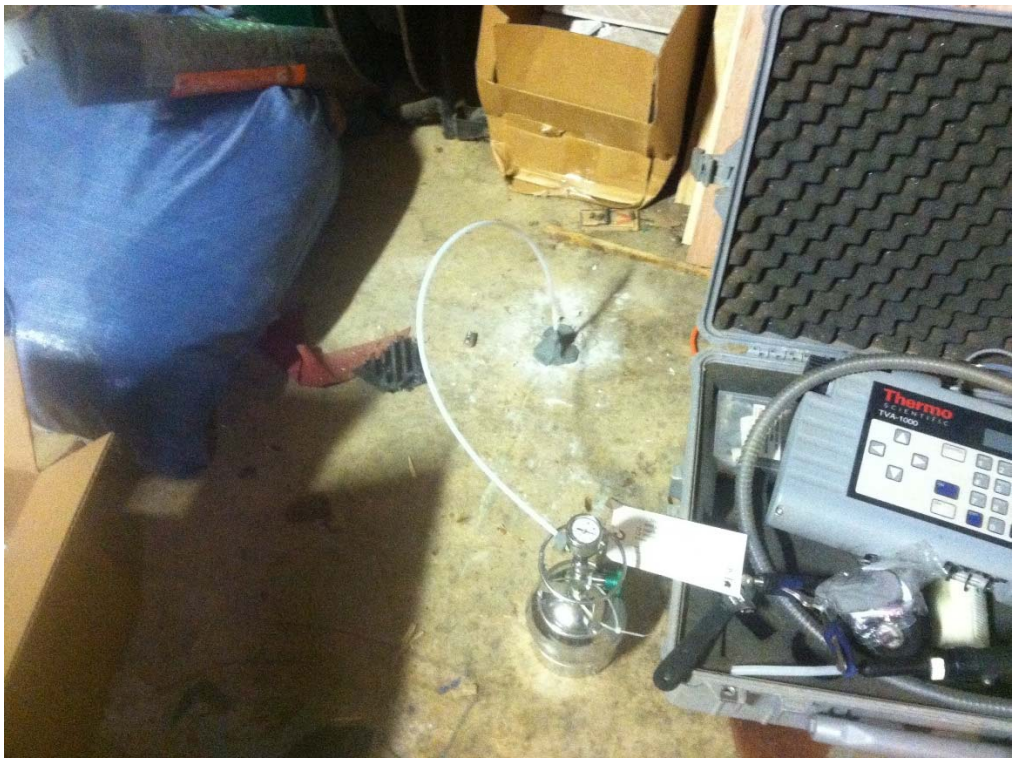


Photo #10: Collecting sub slab vapor sample from probe SSV-2 installed in main portion of 3110 Cullman Avenue. One-liter summa canisters equipped with flow controllers that limited flow to <200 ml/min.

Attachment D

Laboratory Analytical Reports and Chain of Custody Records
Leather Trimmings: 3110 Cullman Avenue, Charlotte, NC

ANALYTICAL REPORT

September 08, 2015

Withers & Ravenel Eng. - Standard

Sample Delivery Group:	L786332
Samples Received:	09/02/2015
Project Number:	03130430.03
Description:	Trex Properties
Report To:	Brian Bellis 115 MacKenan Drive Cary, NC 27511

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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3110 IA-3 L786332-01 Air

Collected by: Chris Fay | Collected date/time: 09/01/15 13:06 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813451	1	09/05/15 11:03	09/05/15 11:03	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG813918	10	09/07/15 15:23	09/07/15 15:23	SNH

3110 IA-4_711 L786332-02 Air

Collected by: Chris Fay | Collected date/time: 09/01/15 13:03 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813451	1	09/05/15 11:48	09/05/15 11:48	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG813918	10	09/07/15 16:02	09/07/15 16:02	SNH

3110 DUP 256 L786332-03 Air

Collected by: Chris Fay | Collected date/time: 09/01/15 13:04 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813451	1	09/05/15 12:33	09/05/15 12:33	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG813918	10	09/07/15 16:44	09/07/15 16:44	SNH

3110 AMBIENT NORTH L786332-04 Air

Collected by: Chris Fay | Collected date/time: 09/01/15 13:08 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813451	1	09/05/15 13:19	09/05/15 13:19	MBF

3110 AMBIENT EAST L786332-05 Air

Collected by: Chris Fay | Collected date/time: 09/01/15 13:12 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813451	1	09/05/15 14:04	09/05/15 14:04	MBF

3110 AMBIENT SOUTH L786332-06 Air

Collected by: Chris Fay | Collected date/time: 09/01/15 13:10 | Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813451	1	09/05/15 14:48	09/05/15 14:48	MBF

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	0.0753	0.298		1	WG813451
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG813451
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG813451
Tetrachloroethylene	127-18-4	166	0.200	1.36	2.98	20.2		10	WG813918
Trichloroethylene	79-01-6	131	0.200	1.07	5.19	27.8		10	WG813918
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG813451
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG813451

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	0.0788	0.312		1	WG813451
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	0.245	0.970		1	WG813451
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG813451
Tetrachloroethylene	127-18-4	166	0.200	1.36	2.66	18.1		10	WG813918
Trichloroethylene	79-01-6	131	0.200	1.07	4.72	25.3		10	WG813918
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG813451
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*108*				WG813451

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	0.0747	0.296		1	WG813451
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	0.242	0.960		1	WG813451
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG813451
Tetrachloroethylene	127-18-4	166	0.200	1.36	2.74	18.6		10	WG813918
Trichloroethylene	79-01-6	131	0.200	1.07	4.83	25.9		10	WG813918
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG813451
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*108*				WG813451

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG813451
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	0.0917	0.364		1	WG813451
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG813451
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.161	1.09		1	WG813451
Trichloroethylene	79-01-6	131	0.0200	0.107	0.349	1.87		1	WG813451
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG813451
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*104*				WG813451

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG813451
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	0.0698	0.277		1	WG813451
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG813451
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.514	3.49		1	WG813451
Trichloroethylene	79-01-6	131	0.0200	0.107	0.704	3.77		1	WG813451
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	ND	ND		1	WG813451
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*104*				WG813451

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.0200	0.0793	ND	ND		1	WG813451
cis-1,2-Dichloroethene	156-59-2	96.90	0.0200	0.0793	ND	ND		1	WG813451
trans-1,2-Dichloroethene	156-60-5	96.90	0.0200	0.0793	ND	ND		1	WG813451
Tetrachloroethylene	127-18-4	166	0.0200	0.136	0.253	1.72		1	WG813451
Trichloroethylene	79-01-6	131	0.0200	0.107	0.427	2.29		1	WG813451
Vinyl chloride	75-01-4	62.50	0.0200	0.0511	0.0377	0.0962		1	WG813451
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG813451

Method Blank (MB)

(MB) 09/05/15 09:12

Analyte	MB Result ppb	MB Qualifier	MB RDL ppb
1,1-Dichloroethene	ND		0.0200
cis-1,2-Dichloroethene	ND		0.0200
trans-1,2-Dichloroethene	ND		0.0200
Tetrachloroethylene	ND		0.0200
Trichloroethylene	ND		0.0200
Vinyl chloride	ND		0.0200
(S) 1,4-Bromofluorobenzene	*96.7*		*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/05/15 07:43 • (LCSD) 09/05/15 08:28

Analyte	Spike Amount ppb	LCS Result ppb	LCSD Result ppb	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,1-Dichloroethene	0.500	0.421	0.428	84.2	85.6	70.0-130			1.59	25
cis-1,2-Dichloroethene	0.500	0.411	0.425	82.2	85.1	70.0-130			3.49	25
trans-1,2-Dichloroethene	0.500	0.429	0.436	85.8	87.2	70.0-130			1.63	25
Tetrachloroethylene	0.500	0.391	0.403	78.1	80.5	70.0-130			3.04	25
Trichloroethylene	0.500	0.383	0.392	76.5	78.3	70.0-130			2.38	25
Vinyl chloride	0.500	0.415	0.422	83.0	84.4	70.0-130			1.67	25
(S) 1,4-Bromofluorobenzene				*97.4*	*97.5*	*60.0-140*				

Method Blank (MB)

(MB) 09/07/15 12:00

Analyte	MB Result ppb	MB Qualifier	MB RDL ppb
Tetrachloroethylene	ND		0.0200
Trichloroethylene	ND		0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/07/15 10:35 • (LCSD) 09/07/15 11:16

Analyte	Spike Amount ppb	LCS Result ppb	LCSD Result ppb	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Tetrachloroethylene	0.500	0.466	0.461	93.2	92.2	70.0-130			1.09	25
Trichloroethylene	0.500	0.462	0.462	92.4	92.3	70.0-130			0.150	25

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

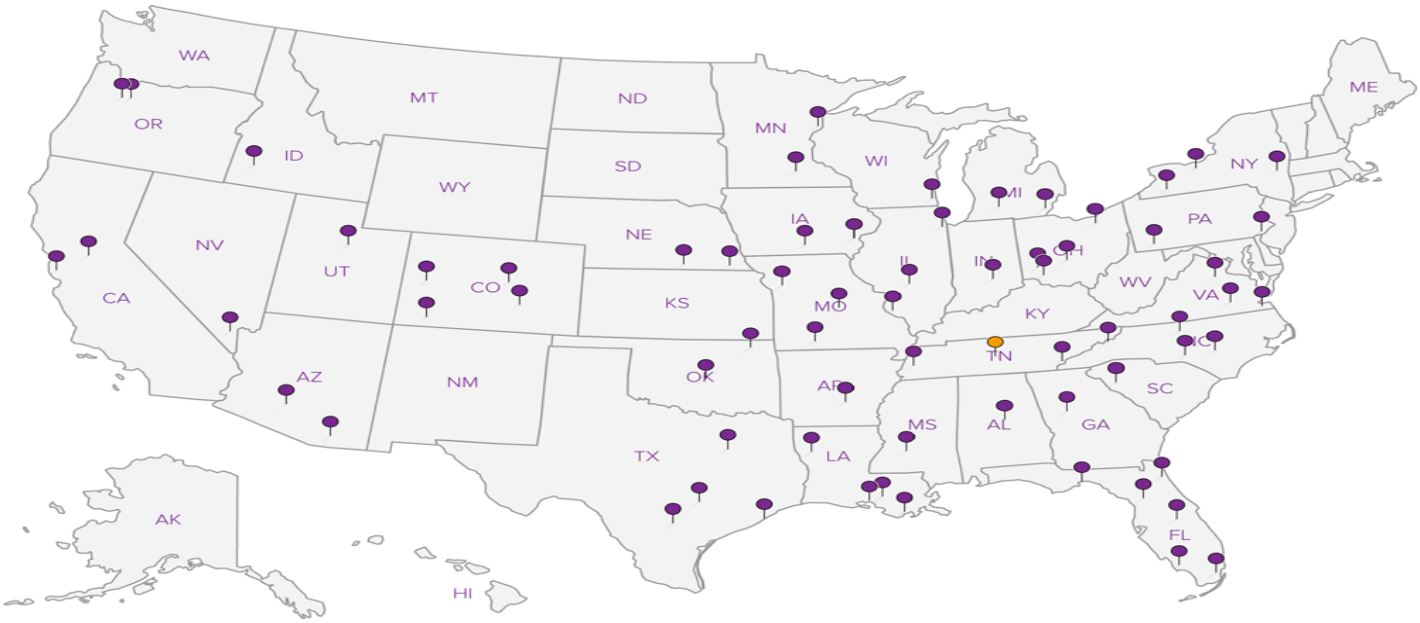
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Withers & Ravenel Eng. - Standard

115 MacKenan Drive
Cary, NC 27511

Billing Information:
Accounts Payable
115 MacKenan Drive
Cary, NC 27511

Report to: Brian Bellis

Email To: bbellis@withersravenel.com

Project Description: Trex Properties

City/State Collected: Charlotte NC

Phone: 919-469-3340
Fax: 919-467-6008

Client Project # 03130430.03

Lab Project # WITHRAVS-03130430.03

Collected by (print): Chris Fay

Site/Facility ID #

P.O. #

Collected by (signature): CF

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
X Three Day 25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L786332

J248

Acctnum: WITHRAVS
Template: T105216
Prelogin: P521698
TSR: 350 - Jimmy Hunt
PB: PAK 8-27-15
Shipped Via: FedEX Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15SIM Summa	Rem./Contaminant	Sample # (lab only)
3110 IA-3 can # 35031 A SIM	Comp	Air	NA	8/31/15 9/1/15	1306/1306	1	X		-01
3110 IA-4 711 can # 650 SIM		Air			1303/1303	1	X		-02
3110 DUP 236 can # 688 SIM		Air			1304/1304	1	X		-03
3110 Ambient North can # 452 SIM		Air			1308/1308	1	X		-04
3110 Ambient East can # 16 SIM		Air			1312/1312	1	X		-05
3110 Ambient South can # 1593 SIM		Air			1310/1310	1	X		-06

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks: 6 individually-certified, SIM, 6-liter summas Report PCE, TCE, cis 1,2 DCE
6 24-hour flow controllers trans 1,2 DCE, VC, & 1,1 DCE only

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
CF	9/1/15	1500	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Greg Weaver

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 6

Date: 9-2-15 Time: 900

Hold #

Condition: (lab use only) 6 24 hr FC lave

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

ANALYTICAL REPORT

September 08, 2015

Withers & Ravenel Eng. - Standard

Sample Delivery Group:	L786358
Samples Received:	09/02/2015
Project Number:	03130430.03
Description:	Trex Properties
Report To:	Brian Bellis 115 MacKenan Drive Cary, NC 27511

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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3110 SSV-1 CAN567 L786358-01 Air

Collected by: Chris Fay
Collected date/time: 09/01/15 13:30
Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813059	8	09/02/15 15:42	09/02/15 15:42	SNH
Volatile Organic Compounds (MS) by Method TO-15	WG813275	800	09/03/15 18:01	09/03/15 18:01	SNH

3110 SSV-2 CAN1983 L786358-02 Air

Collected by: Chris Fay
Collected date/time: 09/01/15 13:45
Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813059	2	09/02/15 16:28	09/02/15 16:28	SNH
Volatile Organic Compounds (MS) by Method TO-15	WG813275	80	09/03/15 18:50	09/03/15 18:50	SNH

3110 SSV-3 CAN785 L786358-03 Air

Collected by: Chris Fay
Collected date/time: 09/01/15 14:00
Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813059	8	09/02/15 17:12	09/02/15 17:12	SNH
Volatile Organic Compounds (MS) by Method TO-15	WG813275	400	09/03/15 19:38	09/03/15 19:38	SNH

3110 SSV-4 CAN1976 L786358-04 Air

Collected by: Chris Fay
Collected date/time: 09/01/15 14:15
Received date/time: 09/02/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG813059	2	09/02/15 17:59	09/02/15 17:59	SNH
Volatile Organic Compounds (MS) by Method TO-15	WG813275	80	09/03/15 20:23	09/03/15 20:23	SNH

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	1.60	6.34	27.3	108		8	WG813059
cis-1,2-Dichloroethene	156-59-2	96.90	1.60	6.34	54.1	214		8	WG813059
trans-1,2-Dichloroethene	156-60-5	96.90	1.60	6.34	3.07	12.2		8	WG813059
Tetrachloroethylene	127-18-4	166	160	1090	838	5690		800	WG813275
Trichloroethylene	79-01-6	131	160	857	5440	29100		800	WG813275
Vinyl chloride	75-01-4	62.50	1.60	4.09	ND	ND		8	WG813059
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*117*				WG813059

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	26.5	105		2	WG813059
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	1.81	7.18		2	WG813059
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG813059
Tetrachloroethylene	127-18-4	166	16.0	109	177	1200		80	WG813275
Trichloroethylene	79-01-6	131	16.0	85.7	328	1760		80	WG813275
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG813059
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*124*				WG813059

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	1.60	6.34	72.2	286		8	WG813059
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	337	1340		400	WG813275
trans-1,2-Dichloroethene	156-60-5	96.90	1.60	6.34	31.5	125		8	WG813059
Tetrachloroethylene	127-18-4	166	80.0	543	422	2870		400	WG813275
Trichloroethylene	79-01-6	131	80.0	429	5310	28500		400	WG813275
Vinyl chloride	75-01-4	62.50	1.60	4.09	ND	ND		8	WG813059
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*113*				WG813059

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	ppbv ppb	ug/m3	Qualifier	Dilution	Batch
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	1.51	5.99		2	WG813059
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	0.552	2.19		2	WG813059
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG813059
Tetrachloroethylene	127-18-4	166	16.0	109	218	1480		80	WG813275
Trichloroethylene	79-01-6	131	16.0	85.7	351	1880		80	WG813275
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	WG813059
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*111*				WG813059

QUALITY CONTROL SUMMARY

L786358-01,02,03,04

Method Blank (MB)

(MB) 09/02/15 13:11

Analyte	MB Result ppb	MB Qualifier	MB RDL ppb
1,1-Dichloroethene	ND		0.200
cis-1,2-Dichloroethene	ND		0.200
trans-1,2-Dichloroethene	ND		0.200
Vinyl chloride	ND		0.200
(S) 1,4-Bromofluorobenzene	*94.0*		*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/02/15 11:37 • (LCSD) 09/02/15 12:23

Analyte	Spike Amount ppb	LCS Result ppb	LCSD Result ppb	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Vinyl chloride	3.75	3.62	3.58	96.6	95.5	70.0-130			1.16	25
1,1-Dichloroethene	3.75	3.38	3.43	90.1	91.6	70.0-130			1.60	25
trans-1,2-Dichloroethene	3.75	3.53	3.54	94.1	94.4	70.0-130			0.330	25
cis-1,2-Dichloroethene	3.75	3.47	3.48	92.6	92.9	70.0-130			0.330	25
(S) 1,4-Bromofluorobenzene				*100*	*101*	*60.0-140*				

Method Blank (MB)

(MB) 09/03/15 11:27

Analyte	MB Result ppb	MB Qualifier	MB RDL ppb
cis-1,2-Dichloroethene	ND		0.200
Tetrachloroethylene	ND		0.200
Trichloroethylene	ND		0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 09/03/15 09:53 • (LCSD) 09/03/15 10:39

Analyte	Spike Amount ppb	LCS Result ppb	LCSD Result ppb	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	3.75	3.58	3.80	95.4	101	70.0-130			6.00	25
Trichloroethylene	3.75	3.60	3.72	96.1	99.3	70.0-130			3.25	25
Tetrachloroethylene	3.75	3.66	3.67	97.5	98.0	70.0-130			0.530	25

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

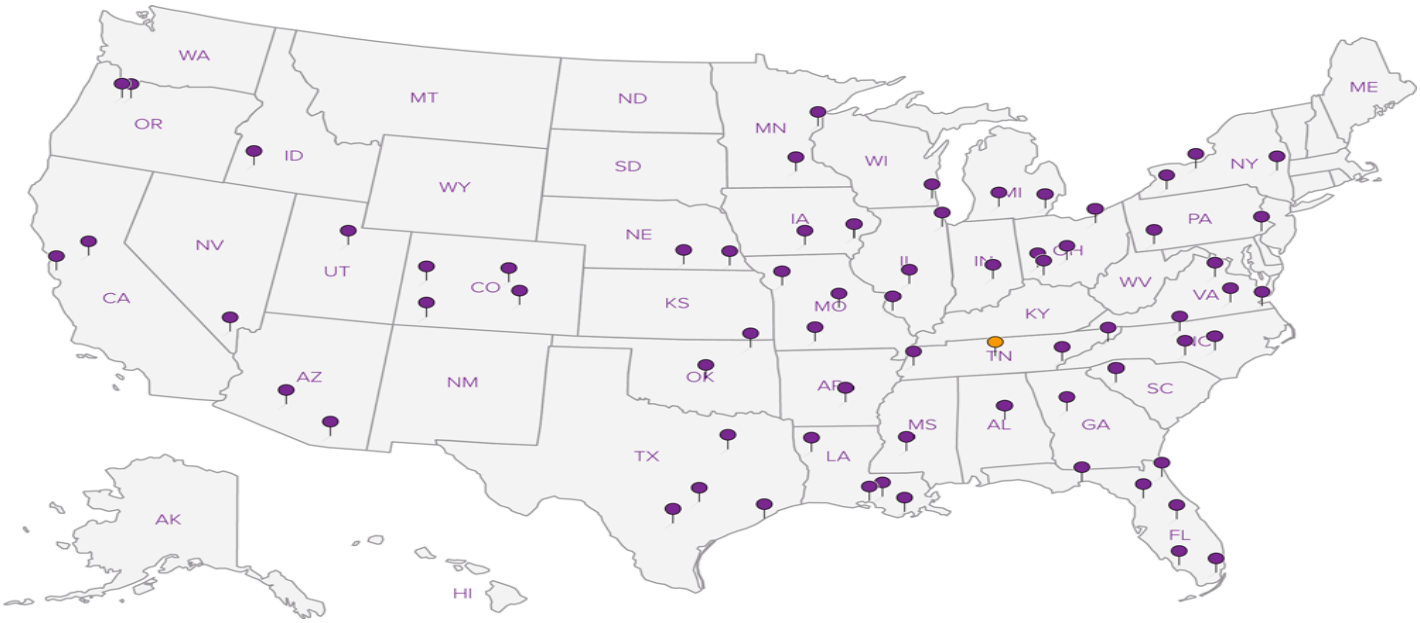
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Withers & Ravenel Eng. - Standard

115 MacKenan Drive
Cary, NC 27511

Billing Information:
Accounts Payable
115 MacKenan Drive
Cary, NC 27511

Report to: Brian Bellis

Email To: bbellis@withersravenel.com

Project Description: Trex Properties

City/State Collected: Charlotte NC

Phone: 919-469-3340
Fax: 919-467-6008

Client Project # 03130430.03

Lab Project # WITHRAVS-03130430.03

Collected by (print): Chris Fry

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N X Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
X Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L786358
L188

Acctnum: WITHRAVS
Template: T105107
Prelogin: P521355
TSR: 350 - Jimmy Hunt
PB: 8-24-15
Shipped Via: FedEx Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa	Rem./Contaminant	Sample # (lab only)
3110 SSV-1 Can # 1974 567	Grab	Air		9/1/15	1330	1	X		-01
3110 SSV-2 Can # 1983		Air			1345	1	X		02
3110 SSV-3 Can # 785		Air			1400	1	X		03
3110 SSV-4 Can # 1976		Air			1415	1	X		04
		Air				1	X		
		Air				1	X		
		Air				1	X		
		Air				1	X		
		Air				1	X		
		Air				1	X		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

6436 7137 7486

Remarks: 10 Batch-certified, 1-liter summas; 10 1-hour flow controllers; 10 3-ft sections of tubing

Report PCE, TCE, cis 1,2 DCE, trans 1,2 DCE, VC, 1,1 DCE only

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	9/1/15	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: °C Bottles Received: 4

Date: 9-2-15 Time: 0900

Condition: 4=FC (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF: