CAP IMP SP2 Meadows of Dan Food Market PC# 2014-2256

GREENE ENVIRONMENTAL SERVICES LLC.

CORRECTIVE ACTION PLAN IMPLEMENTATION REPORT SUB-PHASE 2

Meadows of Dan Food Market
2609 Jeb Stuart Highway
Meadows of Dan, Virginia 24120

PC# 2014-2256
Greene Project# FMMD1007

May 13, 2016

DEQ Case Manager:
Mr. Douglas B. Carl

CORRECTIVE ACTION PLAN
IMPLEMENTATION REPORT
SUB-PHASE 2

Meadows of Dan Food Market
2609 Jeb Stuart Highway
Meadows of Dan, Virginia 24120
PC# 2014-2256

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EXECUTIVE SUMMARY

Corrective Action Plan Implementation Sub-Phase 2

This Corrective Action Plan Implementation Report Sub-Phase 2 (CAP IMP SP2) documents the mobilization, installation, and operation of the Dual Phase Extraction (DPE) system as laid out in the Corrective Action Plan (CAP) submitted to the Virginia Department of Environmental Quality (VA DEQ) on June 30, 2015. These operations are being conducted at the Meadows of Dan Food Market facility (PC 2014-2256) located at 2609 Jeb Stuart Highway in Meadows of Dan, Virginia and the associated reports are to be submitted to the Roanoke Branch of the Blue Ridge Regional Office (BRRO-ROA) of the VA DEQ on a quarterly basis. The information contained within this Quarterly CAP IMP Report covers work conducted from July 1, 2015 to March 31, 2016.

The DPE remediation system was mobilized to the site and installed in February 2016. In addition, electrical power was provided, the discharge line was installed, and the vacuum extraction lines were connected to the remediation system. Following the initial installation and operations checks, long-term operation of the system began on February 23, 2016. The system operated for approximately 851.4 hours and recovered approximately 10,125 pounds of hydrocarbons during CAP IMP SP2. The dual-phase extraction system appears to be operating efficiently both in terms of effectiveness and cost at the Meadows of Dan Food Market facility. Greene recommends continuing with the system operation and maintenance schedule as outlined in the CAP to achieve remedial endpoints. However, Greene will modify the system sampling during next monitoring period to more accurately calculate the hydrocarbon removal and efficiency of the air stripper.

This Executive Summary is an integral part of the Corrective Action Plan Implementation Sub-Phase 2. Greene recommends that the report be read in its entirety.

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CORRECTIVE ACTION PLAN
IMPLEMENTATION REPORT
SUB-PHASE 2
for
Meadows of Dan Food Market
Meadows of Dan, VA

1.0 Introduction

This Corrective Action Plan Implementation Report Sub-Phase 2 (CAP IMP SP2) documents the mobilization, installation, and operation of the Dual Phase Extraction (DPE) system as described in the Corrective Action Plan (CAP) submitted to the Virginia Department of Environmental Quality (VA DEQ) on June 30, 2015. These operations are being conducted at the Meadows of Dan Food Market facility (PC 2014-2256) located at 2609 Jeb Stuart Highway in Meadows of Dan, Virginia and the associated reports are to be submitted to the Roanoke Branch of the Blue Ridge Regional Office (BRRO-ROA) of the VA DEQ on a quarterly basis. The information contained within this Quarterly CAP IMP Report covers work conducted from July 1, 2015 to March 31, 2016.

2.0 Site Location and Description

The subject property is an approximately 1.07-acre parcel located at 2609 Jeb Stuart Highway in a primarily commercial and residential area within the limits of Patrick County, Virginia. The subject site is improved with a two-story building that serves as the Meadows of Dan Food Market, as well as a coin-operated laundromat and rental apartment. It is believed that the subject site has operated as a retail gasoline station and convenience store from approximately 1976 to present. As part of underground storage tank (UST) system upgrade activities, one 10,000-gallon regular gasoline UST (UST #1) and one 10,000-gallon premium gasoline UST (UST #2) located within a common basin were removed from the ground on December 30, 2013. The subject site currently maintains one 10,000-gallon gasoline UST and one 8,000-gallon compartmental UST containing gasoline and kerosene. In addition, the property maintains two gasoline dispensers and one kerosene dispenser. The subject site is further improved with asphalt access and parking areas. The Meadows of Dan Food Market obtains potable water from a drilled supply well located within the store building approximately 75 feet northwest of the tank basin. The subject site is bordered by Jeb Stuart Highway to the south, Baptist Church Lane to the north, and commercial properties to the east and west. A Site Map documenting pertinent features of the site and surrounding area is included in Appendix B.

3.0 Site Preparation

3.1 Interim Authorization CAP IMP Activities

During the previously performed Interim Authorization CAP IMP, Greene Environmental Services, LLC (Greene) prepared the site for long term utilization of DPE remediation technology to address the observed petroleum contamination observed both onsite and offsite. Greene selected monitoring wells MW01A, MW02, MW03, MW07, MW12, MW14, MW15, MW19, MW21-26, and MW28 to be utilized as remediation system extraction wells at the facility. In an effort to reduce the day-to-day impact to the retail facility, dedicated 2" schedule 40 PVC piping was installed from the monitoring wells in a series of shallow trenches to a 24" x 24" steel vault located in a grassy/gravel area on the north side of the property. In addition, the well covers were removed and replaced with 24" x 24" steel vaults to allow for connection of the PVC piping to the well heads including the installation of the appropriate in-line metering and adjustment equipment. The steel vaults were set in concrete and resurfaced with concrete pads in an effort to eliminate shifting or settling due to the significant vehicle traffic at the facility.

3.2 Electrical Service

On September 3, 2015, Greene contracted Jamison Electric, Inc. (Jamison) of Callaway, Virginia to install the power pole required by Appalachian Power (AEP) to provide the 240-volt, Wye 3-phase power to the site. Jamison installed a 30 foot class 2 pole to be utilized as the required service pole. In addition, Jamison installed the meter base (provided by AEP) and a 200 amp disconnect to the newly installed power pole. Subsequent to approval by the Patrick County Building Inspections Department, AEP provided an electrical drop to the service pole and installed the electrical meter. Finally, following Greene positioning the remediation trailer onsite, Jamison returned to the property on February 18, 2016 and February 19, 2016 to complete the electrical hookup. Jamison installed underground conduit and the required wiring from the 200 amp disconnect to the control panel located on the remediation trailer. A copy of the building permit for electrical service is included in Appendix G.

3.3 Discharge Piping

As part of CAP activities, Greene obtained a Virginia Pollutant Discharge Elimination System (VPDES) General Permit to discharge the treated liquid effluent to a vegetated ditch draining to an unnamed intermittent tributary to Tuggle Creek. Due to the location of the proposed discharge piping being within the Virginia Department of Transportation (VDOT) right-of-way proximal to Baptist Church Lane (Route 614) a VDOT Land Use Permit was required. Further, due to the type of right-of-way along Baptist Church Lane, a prescriptive easement, Greene also obtained Site Access Agreements from Kaye-Reed, LLC and Mr. Ledford Stanley to allow for the installation of the discharge piping across the 2685 Jeb Stuart Highway and 2727 Jeb

Stuart Highway properties, respectively. Finally, based on the outfall being located within a Limited Access portion of Route 58 a design plan was required to be submitted and approved prior to submitting the VDOT Land Use Permit application.

On, September 23, 2015, Greene submitted design plans for installation of the discharge piping to the Salem, VA Branch of the VDOT. Subsequent to review of the design plans, VDOT personnel requested additional information and revisions to the plans in a letter dated September 25, 2015. On October 14, 2015, Greene submitted the revised discharge installation design plans, which were approved by the VDOT in a letter dated November 4, 2015. Greene then submitted the required VDOT Land Use Permit application on December 23, 2015 and obtained the permit on December 30, 2015. A copy of the VPDES General Permit Coverage Letter is provided in Appendix E. Copies of the VDOT Land Use Permit and the Site Access Agreements are provided in Appendix G.

Subsequent to obtaining the VDOT Land Use Permit and the Site Access Agreements, Greene contracted Jamison to install the two-inch high-density polyethylene (HDPE) discharge piping from the proposed remediation system location to the vegetated ditch draining to the unnamed intermittent tributary to Tuggle Creek. Per the conditions of the VDOT Land Use Permit, Greene executed a road closure on Baptist Church Lane (Route 614). As required, Greene contacted and informed the Virginia State Police, the Patrick County Sherriff's Office, the Patrick County Fire & Rescue, and the local 911 office approximately one week prior to closure of Baptist Church Lane. On February 10, 2016, following the notification period, Greene utilized traffic control devices to close Baptist Church Lane and allow for the installation of the remediation system discharge piping. In addition, Greene contacted the local VDOT Transportation Operations Center to report the road closure.

Upon completion of the road closure on February 10, 2016, Jamison utilized a Vermeer V8550A vibratory plow to install the 2-inch HDPE pipe and a 12-gauge tracer wire from the vegetated ditch approximately 660 feet along Baptist Church Lane to the anticipated location of the remediation system. In addition to pipe plowing techniques, Jamison utilized a small excavator to install the discharge pipe beneath an existing concrete culvert drain and phone line located proximal to Baptist Church Lane. Jamison returned to the subject site on February 11, 2016 to install erosion control measures at the discharge piping outfall location. A tee fitting was installed on the end of the discharge piping and landscaping fabric and rip-rap material were utilized for erosion control proximal to the outfall location.

Finally, on February 18, 2016 Greene utilized a small excavator to install a trench between the discharge line and the remediation system trailer to allow for final connection. Subsequent to connecting the discharge line to the trailer Greene utilized #8 stone as bedding and backfill material around the subsurface piping and tracer wire. The previously excavated soil was then utilized to complete backfilling activities.

3.4 Remediation System

On February 17, 2016, Greene visited the subject site to oversee the delivery of the remediation system trailer. TJ's Transport of Douglas, Georgia mobilized the remediation system to the subject site and temporarily staged the trailer in the Meadows of Dan Food Market parking lot. Greene performed a visual inspection of the system and assisted in unloading of the free phase petroleum above ground storage tank (AST). Greene personnel returned to the site on February 18, 2016 and February 19, 2016 to complete the groundwork and make the final connections to the remediation system prior to performing start-up activities. Subsequent to placement and leveling of the trailer, the small excavator was utilized to install a trench from the vacuum lines terminated during Interim Authorization CAP IMP activities to the vacuum inlet locations on the remediation system. Following excavation, the small excavator was utilized to place #8 stone in the trench to be utilized as bedding for the pipe. Greene then utilized schedule 40 PVC pipe and fittings below grade and schedule 80 PVC pipe and fittings above grade to connect the 16 dedicated vacuum lines to the remediation system. Greene personnel then utilized the small excavator to backfill the trench to approximately three feet below the ground surface (bgs) with #8 stone. The remainder of the trench was then backfilled with crusher run material. Further, crusher run material was utilized to resurface the area around the remediation system to and allow for placement of the recovered free product AST. Finally, Greene attached four mobile home tie-down straps to the remediation system.

4.0 Operations Summary

4.1 System Start-up

On February 22, 2016, Greene personnel met onsite with a Mid-Atlantic Environmental Equipment, Inc. (MAE2) representative to initiate start-up of the remediation system. MAE2 and Greene personnel confirmed the power supply and electrical connections within the control panel were correct prior to starting the system. MAE2 personnel also inspected the motors, pumps, and additional remediation equipment to confirm proper rotation and/or proper installation. Further, the AST for free product recovery was installed and the float switch was wired into the control panel. Finally, Greene gauged the 28 onsite and offsite monitoring wells to obtain benchmark groundwater elevations prior to starting the remediation system. Table 1 – Summary of Corrective Action Plan Implementation Groundwater Elevation Data is included in Appendix A, Page 1.

Subsequent to performing the gauging event and inspection of the trailer components, the remediation system was started and allowed to operate for approximately one hour. During this initial hour of operation the recovery well vacuum lines remained closed and only dilution air was utilized to confirm the proper operation of the three rotary claw pumps (RCPs). Subsequent to approximately one hour of system operation, the vacuum lines to monitoring wells MW07, MW25, and MW27 (wells without free product) were opened and the recovered groundwater was utilized to fill the oil-water separator (OWS). Subsequent to filling the OWS, Greene opened the vacuum lines to monitoring wells MW01A, MW22, MW02, and MW03 to allow for additional groundwater recovery to fill the remaining system components. Once the two 500-pound liquid granular activated carbon (LGAC) vessels were filled with water the remediation system was turned off to allow the carbon to settle and displace the majority of the air remaining in vessels.

Greene and MAE2 personnel returned to the Meadows of Dan Food Market on February 23, 2016 to continue system start-up activities. The remediation system was started and 10 of the 16 vacuum lines were opened. In addition, the carbon vessels and bag filters were purged of air. Further, the discharge line outfall location was inspected and the operation and effectiveness of the erosion control measures was confirmed. Subsequent to allowing the system to operate with extraction from 10 recovery wells, Greene began to slowly open the remaining six vacuum lines. Once the remediation system was fully operational (extraction from 16 monitoring wells) the transfer pumps and system components were adjusted/balanced to allow for maximum treatment efficiency and the continued operation of the system without shutdown. The remediation system remained operational upon departure and February 23, 2016 should be considered the start date for long-term system operation.

4.2 System Downtime

The DPE system is designed to be operated 24 hours a day 7 days a week until such time as endpoints are met. The system may experience routine downtime to perform normal maintenance of system components or non-routine downtime due to the logic circuit detecting an abnormal operating parameter. During this reporting period, the system was in operation for 851.4 hours of the possible 902 hours from system start-up on February 23, 2016 to March 31, 2016 for a total of 50.6 hours of downtime. Based on this total downtime data, the system was operational for 94.39% of the time during this phase of work. However, the majority of system downtime, approximately 45 hours, was observed during the first week of system operation and is related to routine balancing and optimization of the system components during system start-up. Subsequent to optimization the remediation system was operational for approximately 99.31% of the time during CAP IMP SP2 activities.

4.3 Remediation System Operation & Maintenance

During start-up, the system was observed for approximately seven to eight hours a day until it was sufficiently optimized. Following optimization, Greene performed twice weekly site visits until the completion of CAP IMP SP2 activities to allow for the system to be monitored and for any additional adjustments to be made. As stated in the CAP, Greene will perform weekly monitoring events during CAP IMP SP3 activities and twice monthly monitoring events thereafter for the duration of the project. During the scheduled site visits, the operation of system components and site conditions are observed/monitored and the data is utilized to maximize hydrocarbon recovery and prevent potential downtime conditions.

4.3.1 Remediation System Sampling

As part of CAP IMP SP2 activities, Greene collected six sample sets from the remediation system. Greene collected system sample sets twice during the first week of system operation and then weekly throughout the remainder of this phase of investigation. Each sample set includes two air samples and two water samples. The rotary claw pump exhaust samples, which are labeled RCP## are collected from a sample port located along the RCP exhaust piping and the air stripper exhaust samples, which are labeled AS## are collected from a sample port located on the air stripper exhaust piping. The influent water samples, which are labeled INF## are collected from a sample port located along the piping that transfers water from the oil-water separator to the air stripper and the effluent water samples, which are labeled EFF##, are collected from a sample port located on the piping that discharges water from the carbon units to the outfall location. Greene collected one additional RCP exhaust air sample during CAP IMP SP2 in an attempt to confirm the effectiveness of modifications made to improve hydrocarbon recovery. As stated in the CAP, system samples will continue to be collected approximately once per month for the duration of system operation.

4.3.2 Remediation System Flow Rates & Recovery Volume

By design, Dual-Phase Extraction technology recovers subsurface contamination via liquids removal/treatment and subsurface vapor phase removal. These two streams have been monitored during site visits in order to yield total flows during the CAP IMP SP2 phase of system operation.

4.3.2.1 Groundwater

Groundwater flow volume is measured on the discharge piping of the air stripper sump by a non-resettable totalizer. Upon delivery, the flow meter had registered a total of 240 gallons during system checks performed at the factory. For the purposes of this project, 240 gallons will serve as the zero point for total water flow volume calculations. As of April 1, 2016 at 5:00 A.M., the totalizer had registered a total volume of 164,860 gallons, which indicated the system had discharged a total of 164,620 gallons or approximately 4,332.11 gallons per

day. Greene observed the daily flow rate to fluctuate significantly throughout CAP IMP SP2 activities and this variance was likely due to multiple modifications made to the drop tubes utilized within the recovery wells. Greene anticipates the daily groundwater recovery to slowly decrease as ongoing system operation continues to depress the shallow aquifer/groundwater table.

4.3.2.2 Vapor Phase

It should be noted that the air stripper exhaust stream is not true vapor recovered from the subsurface and the exhaust volume of the air stripper portion of the groundwater treatment will not be included with the vapor stream for the purposes of flow rate/volume reporting. However, the contamination recovered via the air stripper will be used in calculating the vapor phase petroleum emissions as required by the VA DEQ Stationary Source Permit to Construct and Operate obtained by Greene prior to system start-up. A copy of the air permit is included in Appendix D.

Air flow volume has been calculated based on RCP runtime hours and the flow rates measured through the use of a pitot tube on the effluent RCP piping. The logic circuit has been programmed to calculate the flow rate in standard cubic feet per minute (SCFM). During the current reporting period observed daily air flow data was averaged and multiplied across the total number of runtime hours to calculate the air flow volume estimate. Based on 851.4 hours of runtime and the average effluent air flow rate of 338.78 SCFM, the total exhaust discharge volume generated during CAP IMP SP2 is approximately 17,306,238 (standardized) cubic feet.

4.3.3 Petroleum Mass Concentrations & Recovery

DPE technology recovers petroleum contamination through the removal of vapor, dissolved, and free phases. During this phase of investigation, very limited free product has been observed in the remediation system components suggesting that the free phase contamination recovered by the system has shifted into the vapor and dissolved phases during the recovery process. As such, mass estimates have been generated for the dissolved and vapor phases only.

4.3.3.1 Dissolved Phase

During CAP IMP SP2 activities, six sets of influent and effluent water samples have been collected and submitted for laboratory analysis. The influent samples were collected from a sample port located along the piping that transfers water from the oil-water separator to the air stripper. The effluent samples were collected from a sample port located on the piping that discharges water from the air stripper sump to the outfall location. All water samples were collected in glass sampling bottles, entered onto a chain of custody document, sealed inside a shipping cooler on ice, and shipped overnight to ESC Lab Sciences of Mt. Juliet, TN. The water

samples were analyzed for total petroleum hydrocarbons-gasoline range organics (TPH-GRO) by EPA method 8015, benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tert-butyl ether (MTBE), and naphthalene by EPA method 8260. In addition, as part of VPDES requirements selected effluent samples were submitted for pH analysis via EPA method 9040 and ethanol analysis via EPA method 8260. Table 2 - Summary of CAP IMP SP2 Remediation System Dissolved Phase Analytical Results is included in Appendix A, Page 10. Copies of the laboratory analytical results and chain of custody documentation for the water samples collected during CAP IMP SP2 are included in Appendix C.

As discussed in the Section 4.3.2.1, 164,620 gallons of contaminated groundwater was recovered and disposed of during this phase of investigation. The dissolved phase mass removal estimate has been calculated by applying averaged constituent concentrations across the entire water discharge volume. For the purposes of determining mass removal through the dissolved phase, the influent water sample results have been used. The calculation process is as follows: The influent water sample laboratory results for each constituent were averaged, converted from micrograms per liter (µg/L) into pounds per gallon (lbs/gal), and then multiplied by the total water discharge. Based on the analytical data obtained during this phase of work, approximately 125.37 pounds of hydrocarbon contamination was recovered in the dissolved phase during CAP IMP SP2. Table 3 - Summary of the Dissolved Phase Mass Recovery Totals is included in Appendix A, Page 10. A Calculation Sheet depicting this process for individual BTEX constituents, MTBE, and TPH-GRO is included in Appendix F.

Greene utilized the effluent laboratory analytical results to prepare the monthly Discharge Monitoring Reports (DMRs) as required by the VPDES General Permit. The monthly DMRs have been submitted to the BRRO-ROA of the VA DEQ. Greene did not observe any concentration exceedances in the water being discharged from the remediation system during CAP IMP SP2. Copies of the DMRs prepared and submitted during this phase of investigation are included in Appendix D.

4.3.3.2 Vapor Phase

During CAP IMP SP2 activities, six sets of RCP and air stripper exhaust air samples have been collected and submitted for laboratory analysis. In addition, Greene collected a seventh RCP exhaust air sample during CAP IMP SP2 in an attempt to confirm the effectiveness of modifications made to improve hydrocarbon recovery. All vapor samples were collected in tedlar bags, entered onto a chain of custody document, sealed inside a shipping cooler on ice, and shipped overnight to ESC Lab Sciences of Mt. Juliet, TN. The air samples were submitted for total volatile petroleum hydrocarbons (TVPH), BTEX, and MTBE analysis via EPA Method 18. Table 4 - Summary of CAP IMP SP2 Remediation System Vapor Phase Analytical Results is included in

Appendix A, Page 11. Copies of the laboratory results and chain of custody documentation are included in Appendix C.

As discussed in the Section 4.3.2.2, 17,306,238 (standardized) cubic feet of RCP exhaust gases were discharged during this phase of investigation. The vapor phase mass removal estimate has been calculated by applying averaged constituent concentrations across the entire exhaust discharge volume. For the purposes of determining mass removal through the vapor phase, the RCP sample results have been used. The calculation process is as follows: The RCP air sample laboratory results were averaged for each constituent, converted from milligrams per cubic meter (mg/m^3) into lbs/gal, and then multiplied by the total RCP exhaust discharge. Based on the analytical data obtained during this phase of work, approximately 10,067.26 pounds of hydrocarbon contamination was recovered in the vapor phase as TVPH during CAP IMP SP2. Table 5 - Summary of the Vapor Phase Mass Recovery Totals is included in Appendix A, Page 11. A Calculation Sheet depicting this process for individual BTEX constituents, MTBE, and TVPH is included in Appendix F.

4.3.3.3 Remediation System Treatment Efficiency

Combined air stripper and LGAC efficiency has been calculated based on the laboratory results for influent and effluent sample sets. Water sample laboratory results were broken down by individual constituents and then average effluent results were compared to the average influent results in order to determine the percentage of each constituent removed through air stripping and carbon polishing. A Calculation Sheet depicting this process for individual BTEX constituents, MTBE, and TPH-GRO is included in Appendix C. Table 6 - Summary of Remediation System Treatment Efficiency is included in Appendix A, Page 12.

4.3.4 Operational Adjustments

During start-up activities multiple adjustments were made to the system components to optimize/balance the recovered waste streams. These adjustments are primarily required during start-up activities and are not considered part of routine system operation and maintenance. As a result, a detailed summary of the start-up adjustments made to the system has not been included with this report.

Throughout this phase of work small adjustments were made to the volume of dilution air entering the vacuum stream. These adjustments were made on an as needed basis during site visits in order to maintain an approximate vacuum of 15.0 inches Hg, which was determined during the pilot study to maximize hydrocarbon recovery. In addition, multiple adjustments were made to the drop tubes utilized in the extraction wells. During the previously performed pilot study, Greene installed drop tubes within each of the recovery wells. The drop tubes were constructed of one-inch PVC pipe and fittings and maintained 1-2, estimated 5/16-inch, holes to aid

in liquid recovery. During CAP IMP SP2 activities, Greene utilized previous gauging data to determine the greatest depth to water measurement recorded for each recovery well. The drop tube lengths were then adjusted and installed approximately 1-2 feet below the greatest observed depth to water in an effort to depress groundwater and expose the soils most likely to have been in contact with free phase petroleum, which will maximize recovery of the adsorbed petroleum contamination. Subsequent to installation of the drop tubes, Greene utilized gauging data obtained during site visits to determine if additional adjustments were required to depress the groundwater at each recovery well. Based on the gauging data, Greene adjusted the number, size, and/or location of holes within the drop tubes to maximize liquid recovery at each extraction well. No other significant adjustments have been made during this reporting period.

4.3.5 Air Emissions Data

As stated in the CAP, Greene submitted a competed Air Operating Permit Application requesting a nonbinding applicability determination to the BRRO-ROA of the VA DEQ on June 30, 2015. In a letter dated July 30, 2015, the VA DEQ determined the DPE remediation system would be subject to air permitting requirements based on the potential to emit VOCs at a rate greater than 25 tons per year (tpy). Over the next few months Greene provided a VA DEQ air permit writer with site specific information regarding the proposed remediation system and potential options for treatment of the air waste stream. Based on the estimated mass of petroleum contamination and the current site and PC conditions it was determined that the vapor phase VOCs associated with the DPE would not require control measures. On October 19, 2015, the VA DEQ issued the air permit for the Meadows of Dan Food Market, which stated emissions from the operation of the DPE remediation system will not exceed 65 tpy. Further, the permit requires monthly sampling of the air waste stream and the preparation monthly and annual air emissions calculations. Copies of the VA DEQ Stationary Source Permit to Construct and Operate and the monthly air emissions calculations are included Appendix D.

Operation of the DPE system during this reporting period has resulted in measurable VOC emissions from the RCP and air stripper. As a result, Greene generated monthly emissions rates as well as the total emissions to date. Further, Greene predicted the annual emissions (observed monthly rates across one full year). Emissions calculations reveal that emissions of total VOCs is below the annual emission limit of 65 tpy. It should be noted that the estimated total petroleum mass (approximately 40 tons) in the subsurface at the Meadows of Dan Food Market is below the VA DEQ air permit emission limit for the subject site and Greene does not anticipate exceeding 65 tpy. Table 7 – Summary of DPE Remediation System Air Emissions is included in Appendix A, Page 12. Emissions from the RCP and air stripper exhaust can be seen on the Vapor Phase Mass Recovery Calculation Sheets included in Appendix F.

4.4 Utilities, Consumables, & Waste Disposal

4.4.1 Utilities

Long-term implementation of DPE technology requires the usage of two utilities; electricity and cellular service. Electrical service has been provided since its initial hookup on October 9, 2015. As such, five monthly bills for minimum account charges have been received as of the date of this report. Additionally, two bills depicting actual monthly usage have been received prior to submission of this report. The bills covering the usage period for CAP IMP SP2 averaged approximately $1,725.00; however, the remediation system was not operational for the entire month of February 2016. As a result, future monthly electrical charges are expected to be within a $2,000 to $2,300 range and depend on system runtime during each particular billing cycle as well as current rates. The majority of the electrical usage at the site is thought to be attributed to the three 15-horsepower motors that are operating the rotary claw pumps almost continually. Finally, a cellular service agreement has been implemented to provide offsite access to the system's logic circuit. The agreement is to be billed monthly at approximately $150.00.

4.4.2 Consumables

Consumables used during this reporting period include industrial type bag filters. A total of 11 bag filters have been installed in the bag filter housings within the DPE remediation system. The filters have been replaced on an as needed basis, which has been determined by the pressure differential as observed on either side of the filter housings. No other consumables have been used during this reporting period.

4.4.3 Waste

The only waste generated during the current reporting period is the bag filters discussed in the previous section. No other wastes have been generated during the current reporting period.

4.5 Problems with System Operation

4.5.1 Remediation System

Following optimization/balancing during start-up activities, the DPE remediation system has functioned properly. There have been no major operational issues noted during this reporting period.

4.5.2 Subsurface Components

During this reporting period a snow plow damaged two of the vaults installed at the Meadows of Dan Food property. During plowing activities access covers installed within two vault lids were damaged. Greene

replaced and secured the damaged access covers to the vaults lids. There have been no additional major issues noted with any of the subsurface components during CAP IMP SP2.

4.6 DPE Remediation System Components Maintenance & Modifications

4.6.1 Routine Maintenance

There has been no true maintenance performed on the remediation system or any subsurface components. Throughout this reporting period Greene adjusted the automatic oiler to achieve the correct addition of oil for the rotary claw pumps. In addition, during each site visit the oil water separator is checked for the presence of free phase petroleum. To date, only a limited layer of petroleum (sheen) has been observed within the oil water separator. Additional routine maintenance includes the cleaning of site glasses and wye-strainers on an as needed basis. Further, the LGAC vessels were backwashed once during this reporting period and will continue to be backwashed as needed based on pressure readings and to prevent significant breakthrough of petroleum hydrocarbons. As previously mentioned, the bag filters are removed and replaced on an as needed basis. Finally, locks have been installed on the system doors, system control panel, and power disconnects.

4.6.2 Modifications & Non-Routine Maintenance

There have been no system modifications during this reporting period. No non-routine maintenance was performed during this reporting period and is not anticipated for the upcoming reporting period.

5.0 Subsurface Data

5.1 Water Level Measurements

During the current reporting period the site wells were monitored for depth to product and depth to water. These measurements were collected relative to the tops of the well casings and have been corrected to a relative elevation based on the surveyed well casing elevations. The depth to product and depth to water observations were made once during each scheduled site visit. Table 1 – Summary of Corrective Action Plan Implementation Groundwater Elevation Data is included in Appendix A, Page 1.

Groundwater elevation data collected immediately prior to starting the remediation system on February 22, 2016 and groundwater elevation data collected during the last site visit of this reporting period on March 29, 2016, were selected for the generation of potentiometric surface maps. The Surfer Version 11.6 program was employed to generate the potentiometric surface contour array over the base map created in DesignCAD. A minimum of pseudo data points were used and these were applied only when the kriging algorithm clearly

interpolated the contour lines into certain regions where a paucity of data resulted in an unnatural contour distribution. When pseudo points were used, they were based on nearest neighbors. The potentiometric surface maps generated from the relative elevations of equilibrated groundwater as measured on February 22, 2016 and March 29, 2016 are included in Appendix B. Relative groundwater elevations measured on February 22, 2016 depict a primarily southeast hydraulic gradient. However, as mentioned during previous site characterization activities, free product movement appears to be primarily to the southwest, which is contrary to the observed hydraulic gradient to the southeast. It is likely groundwater flow is also affected by the same anisotropic condition, and if so groundwater flow would be primarily to the southwest. This is likely due to the schistose bedrock, which gives rise to micaceous soils with relict structure that retain the northeast-southwest orientations. However, the potentiometric surface map generated from gauging data following approximately one month of system operation indicates a groundwater gradient pattern that slopes towards the recovery wells. It appears that DPE operation is effectively influencing groundwater flow in a manner which will promote system performance. This is further depicted in a Drawdown Map included in Appendix B, which documents the change in groundwater elevation on March 29, 2016 following approximately one month of system operation as compared to the groundwater elevations observed immediately prior to system operation on February 22, 2016.

5.2 Free Phase Petroleum

During this phase of investigation measurable free product was observed at monitoring wells MW01A, MW02, MW03, MW12, MW14, MW15, MW19, MW21, MW22, MW23, MW24, MW26, and MW28. Greene generated a free product plume map utilizing product thicknesses observed on February 22, 2015 prior to starting the DPE remediation system. The free phase plume map indicates a free product plume extending northeast to southwest approximately 200 feet. Due to observed anisotropy at the site, the contour map was constructed using a kriging algorithm in Surfer version 11.6, with anisotropy introduced into the kriging consistent with the observed anisotropy of the aquifer. It should be noted that the distribution of the data points used in the contouring may suggest less symmetry of the plumes than actually exists. In addition, gauging events performed during routine DPE operation and maintenance yielded limited and intermittent free phase petroleum. A copy of the Free Phase Petroleum Plume Map (02/22/2016) is included in Appendix B. Table 8 – Summary of Corrective Action Plan Implementation Free Product Thicknesses is included in Appendix A, Page 12.

5.3 Dissolved Phase Petroleum

5.3.1 Groundwater Monitoring Wells

On February 10-11, 2016, groundwater samples were collected from the 28 monitoring wells associated with the Meadows of Dan Food Market investigation to be utilized as benchmark data prior to starting the DPE remediation system. Despite the presence of free phase petroleum within monitoring wells MW01A, MW02, MW03, MW12, MW14, MW15, MW21, MW22, MW23, MW24, MW26, and MW28, Greene collected groundwater samples from beneath the free product layer. The groundwater samples were collected in an effort to obtain dissolved phase analytical data to generate Isoconcentration maps. The groundwater samples collected from beneath free product layers were collected using dedicated, disposable, HDPE bailers and were transferred directly into the appropriate sample containers. Further, the monitoring well MW04, MW05, MW06, MW07, MW08, MW09, MW10, MW11, MW13, MW16, MW17, MW18, MW19, MW20, MW25, and MW27 groundwater samples were collected using a 12-volt S.S. Monsoon Proactive Environmental Products submersible pump with a low-flow controller. Dedicated, disposable, LDPE tubing was used to purge the wells and transfer the groundwater samples directly into the appropriate sample containers. The wells were purged until dry or a minimum of three well volumes had been displaced. Water samples were collected in the appropriate sample containers, stored on ice, and transported via courier to the REI Consultants, Inc. laboratory in Beaver, WV. The groundwater samples collected from the 28 monitoring wells were submitted for TPH-GRO via EPA method 8015, BTEX, MTBE, and naphthalene via EPA method 8260. Copies of the laboratory results and chain of custody documentation are included in Appendix C. Isoconcentration Maps are provided in Appendix B.

The water samples collected from monitoring wells MW01A-MW16, MW18-MW26, and MW28 yielded measurable levels of petroleum contamination. However, selected results were flagged with J qualifiers and the concentrations are considered estimates due to the reported results being below the practical quantitation limits (PQLs) and equal to or above the method detection limits (MDLs). As a result, it is likely the analytes are present in the samples, but the results should be viewed only as qualitative and not quantitative. The water samples collected from monitoring wells MW17 and MW27 yielded Non Detected at MDLs. Table 9 - Summary of Monitoring Well Dissolved Phase Analytical Results is included in Appendix A, Page 18. A summary of the monitoring well dissolved phase analytical results is provided below:

> The groundwater sample from monitoring well MW01A was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination. This sample yielded the highest benzene concentration (8,140 µg/L) and toluene concentration

(45,400 µg/L) observed during CAP IMP SP2 monitoring well sampling activities. However, the reported TPH-GRO concentration was flagged with a J qualifier.

The groundwater sample from monitoring well MW02 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination. This sample yielded the highest MTBE concentration (17,700 µg/L) observed during CAP IMP SP2 monitoring well sampling activities. However, the reported TPH-GRO concentration was flagged with a J qualifier.

The groundwater sample from monitoring well MW03 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination. This sample yielded the highest TPH-GRO concentration (124,000 µg/L) observed during CAP IMP SP2 monitoring well sampling activities. However, the reported TPH-GRO concentration was flagged with a J qualifier.

The groundwater sample collected from monitoring well MW04 yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene concentrations during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW05 yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene concentrations during CAP IMP SP2 sampling activities. However, the reported TPH-GRO and naphthalene concentrations were flagged with J qualifiers.

The groundwater sample collected from monitoring well MW06 yielded measurable TPH-GRO and BTEX concentrations during CAP IMP SP2 sampling activities. However, the reported TPH-GRO concentration was flagged with a J qualifier.

The groundwater sample collected from monitoring well MW07 yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene concentrations during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW08 yielded only a measurable toluene concentration during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW09 yielded only a measurable MTBE concentration during CAP IMP SP2 sampling activities. However, the reported MTBE concentration was flagged with a J qualifier.

The groundwater sample collected from monitoring well MW10 yielded only a measurable MTBE concentration during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW11 yielded measurable TPH-GRO and BTEX concentrations during CAP IMP SP2 sampling activities.

The groundwater sample from monitoring well MW12 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW13 yielded only a measurable MTBE concentration during CAP IMP SP2 sampling activities.

The groundwater sample from monitoring well MW14 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination. This sample yielded the highest ethylbenzene concentration (4,520 µg/L), xylenes concentration (39,400 µg/L), and naphthalene concentration (1,530 µg/L) observed during CAP IMP SP2 monitoring well sampling activities.

The groundwater sample from monitoring well MW15 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, and MTBE contamination during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW16 yielded only a measurable MTBE concentration during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW17 yielded Non Detected for petroleum contamination during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW18 yielded only a measurable xylenes concentration during CAP IMP SP2 sampling activities. However, the reported xylenes concentration was flagged with a J qualifier.

The groundwater sample collected from monitoring well MW19 yielded measurable TPH-GRO, BTEX, and naphthalene concentrations during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW20 yielded measurable TPH-GRO, benzene, toluene, and xylenes concentrations during CAP IMP SP2 sampling activities. However, the reported TPH-GRO concentration was flagged with a J qualifier.

The groundwater sample from monitoring well MW21 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination during CAP IMP SP2 sampling activities.

The groundwater sample from monitoring well MW22 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination during CAP IMP SP2 sampling activities.

The groundwater sample from monitoring well MW23 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination during CAP IMP SP2 sampling activities.

The groundwater sample from monitoring well MW24 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination during CAP IMP SP2 sampling activities. However, the reported TPH-GRO concentration was flagged with a J qualifier.

The groundwater sample collected from monitoring well MW25 yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene concentrations during CAP IMP SP2 sampling activities. However, the reported benzene and MTBE concentrations were flagged with J qualifiers.

The groundwater sample from monitoring well MW26 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, MTBE, and naphthalene contamination during CAP IMP SP2 sampling activities.

The groundwater sample collected from monitoring well MW27 yielded Non Detected for petroleum contamination during CAP IMP SP2 sampling activities.

The groundwater sample from monitoring well MW28 was collected from beneath a layer of free phase petroleum and yielded measurable TPH-GRO, BTEX, and naphthalene contamination. This sample yielded the highest ethylbenzene concentration (4,520 µg/L) observed during CAP IMP SP2 monitoring well sampling activities.

5.3.2 Supply Wells

During CAP IMP SP2 activities, Greene identified three recently installed supply wells within approximately ¼-mile of the Meadows of Dan Food Market facility. Supply wells DW21 and DW22 are installed on residential properties and supply well DW23 is installed on the Meadows of Dan Community Center property. Additional information regarding the potential receptors, including the recently installed supply wells, located proximal to the Meadows of Dan Food Market is included in the Summary of the ¼-Mile Radius Receptor Survey Results presented in Table 10 included in Appendix A, Page 21. A Potential Receptors Location Map is included in Appendix B.

As part of CAP IMP SP2 activities, groundwater samples were collected from receptor IDs DW01, DW07, DW13, DW14, MW17, DW19, DW21, and DW22. Due to the power being disconnected, Greene was unable to collect a drinking water sample from receptor ID DW16. Further, due to the pump not yet being installed, Greene was unable to collect a drinking water sample from DW23, which was installed on the Meadows of Dan Community Center property during CAP IMP SP2 activities. Greene will attempt to collect DW16 and DW23 samples during CAP IMP SP3 activities. Clean, disposable nitrile gloves were used during all phases of sample collection. All drinking water samples were collected in glass sampling bottles, entered onto a chain of custody document, placed on ice, and submitted to either REI Consultants, Inc. of Beaver, WV or ESC Lab Sciences of Mt. Juliet, TN. The drinking water samples were submitted for VOCs analysis via EPA method 8260.

As documented in the previously submitted site characterization and CAP Development reports, offsite receptors DW02, DW03, DW04/DW05/DW06, DW12, and DW15 have been impacted with petroleum, and as

a result, to mitigate concern associated with ingestion of petroleum impacted drinking water, carbon filtration unit (CFU) systems have been installed as part of the VA DEQ Alternate Water Supply (AWS) program. As part of CFU system installation and maintenance activities pre-treatment drinking water samples are routinely collected. As a result, Greene did not collect a sample from receptors DW02, DW03, DW04/DW05/DW06, DW12, or DW15 during this phase of investigation.

The water samples collected from receptors DW01, DW07, DW13, DW14, MW17, DW21, and DW22 yielded Non Detected for chemicals typically associated with petroleum contamination at method detection limits. However, the water sample collected from the offsite supply well (DW19) on February 11, 2016 yielded a toluene concentration of 3.87 µg/L. Upon receiving these results on February 25, 2016, Greene contacted CenturyLink and VA DEQ personnel to report the potential petroleum impact to the supply well. On February 26, 2016, Greene delivered a case of water to the CenturyLink facility in Meadows of Dan and collected a confirmation sample from receptor DW19. Analytical results of the water sample collected on February 26, 2016 yielded a di-isopropyl ether (DIPE) concentration of 1.41 µg/L. Upon obtaining these results, Greene personnel contacted the VA DEQ and CenturyLink on March 11, 2016 to report the potential petroleum impact to the supply well. Due to the low level contamination observed and the lack of consistent analytical results, VA DEQ personnel requested an additional sample be collected. Greene collected the requested water sample from the Meadows of Dan CenturyLink facility on March 15, 2016. Analytical results of the water sample collected on March 15, 2016 yielded a DIPE concentration of 1.48 µg/L, a 1,1-Dichloroethane concentration of 0.413 µg/L, a 1,2-Dichloroethane concentration of 0.758 µg/L, and an MTBE concentration of 0.773 µg/L. Upon obtaining these results, Greene personnel contacted the VA DEQ and CenturyLink on March 28, 2016 to report the potential petroleum impact to the supply well. Based on the results of the DW19 samples, Greene submitted an Alternate Water Supply Referral Form to the BRRO-ROA of the VA DEQ on March 31, 2016. Copies of the laboratory results and chain of custody documentation are included in Appendix D. Table 11 - Summary of Drinking Water Dissolved Phase Analytical Results is included in Appendix A, Page 23. A summary of the drinking water dissolved phase analytical results is provided below:

> The drinking water sample collected from onsite receptor DW01 yielded Non Detected for chemicals typically associated with petroleum contamination at MDLs.
>
> The drinking water sample collected from offsite receptor DW07 yielded Non Detected for chemicals typically associated with petroleum contamination at MDLs.

The drinking water sample collected from offsite receptor DW13 yielded Non Detected for chemicals typically associated with petroleum contamination at MDLs. However, the DW13 water sample did yield a chloroform concentration of 0.620 µg/L. The reported chloroform concentration was flagged with a J qualifier and is considered an estimate due to the reported result being below the practical quantitation limit and equal to or above the method detection limit. Chloroform is not typically associated with petroleum products and its presence within the receptor ID DW13 is likely not related to the release of gasoline at the Meadows of Dan Food Market. In addition, the observed result is well below the maximum contaminant level goal (MCLG) of 70.0 µg/L established by the United States Environmental Protection Agency (US EPA). The presence of chloroform in well water is likely a byproduct of the reaction between chlorine used to treat the groundwater and naturally occurring organic matter.

The drinking water sample collected from offsite receptor DW14 yielded Non Detected for chemicals typically associated with petroleum contamination at MDLs.

The drinking water sample collected from offsite receptor DW17 yielded Non Detected for chemicals typically associated with petroleum contamination at MDLs.

The drinking water samples collected from offsite receptor DW19 during CAP IMP SP2 activities yielded measureable toluene, DIPE, 1,1-Dichloroethane, 1,2-Dichloroethane, and MTBE concentrations during CAP IMP SP2 activities. However, the reported 1,1-Dichloroethane, 1,2-Dichloroethane, and MTBE concentrations were flagged with J qualifiers and are considered estimates due to the reported results being below the PQL and equal to or above the MDL. As a result, it is likely the analytes are present in the sample, but the results should be viewed only as qualitative and not quantitative. The petroleum impact to the drinking water well has been reported to the VA DEQ and an alternate water supply referral form also has been submitted to the VA DEQ.

The drinking water sample collected from offsite receptor DW21 yielded Non Detected for chemicals typically associated with petroleum contamination at MDLs.

The drinking water sample collected from offsite receptor DW22 yielded Non Detected for chemicals typically associated with petroleum contamination at MDLs.

5.3.3 Vacuum Measurements

During the current reporting period the site wells were monitored for vacuum. The recovery well measurements were obtained from vacuum gauges located within the vaults and from magnehelic gauges installed on the well casings of the remaining monitoring wells. The measurements were recorded in inches of mercury for the recovery wells and inches of water for the monitoring wells and were collected during the site visits. The data obtained during the March 29, 2016 site visit was utilized to generate radius of influence mapping. Monitoring data obtained during CAP IMP SP2 activities indicated a significant radius of influence. An approximate radius of influence of 250 feet was observed during CAP IMP SP2 activities. Throughout the current reporting period significant areas of influence were observed likely indicating acceptable communication throughout the subsurface soils. Table 12 - Summary of CAP IMP SP2 Vacuum Readings is included in Appendix A, Page 28. A copy of the Radius of Influence Map (03/29/16) is included in Appendix B.

6.0 Projected Time to Achieve Endpoints

6.1 Short-Term

As laid out in the CAP, the major goal of system operation is preventing the formation of subsurface free phase gasoline contamination. Based on the gauging data performed during CAP IMP SP2 activities, the remediation system appears to have removed a significant portion of the readily available free phase petroleum within the onsite recovery wells with only intermittent free product thicknesses being observed within recovery wells MW01A, MW03, MW12, MW19, and MW24 since long-term operation of the remediation system. As a result the continued operation of the DPE remediation system is expected to ultimately prevent free product formation at the subject site.

6.2 Long-Term

As stated in the CAP, the major goal of system operation is achieving an endpoint of <0.01 feet of product thickness. In the short-term, the DPE remediation system appears to have reduced the observable free product within the majority of the monitoring wells to <0.01. In the long-term, this means removing sufficient quantities of subsurface contamination to prevent future free product formation. As estimated in the CAP, approximately 81,700 pounds of petroleum contamination existed beneath the site as of the start of system operation. The mass of the free phase removed through free product recovery is thought to be relatively small and as such has not been subtracted from the original estimate. Based on the RCP vapor phase and influent dissolved phase analytical data collected during this reporting period, approximately 10,200 pounds of gasoline range contamination has been recovered from the site during 851.4 hours of system operation.

Using the starting mass of 81,700 pounds of petroleum and the average daily petroleum recovery mass observed during CAP IMP SP2 activities of approximately 288 pounds, the average daily recovery rate was found to be 0.35%. Currently the recovery may best be represented as linear due to the large volumes of free phase contamination that are readily available for removal in the well casings, sand packs, and nearby soils. This recovery is expected to remain linear until the remaining easily accessible free phase petroleum has been removed from the subsurface. Based on a the recovery rate of 288 lbs/day observed during CAP IMP SP2, the remaining petroleum mass is estimated to be removed following approximately 284 days of DPE operation respectively. However, following the removal of the easily accessible free product, the reduction of subsurface petroleum contamination by DPE is expected to be best represented through use of an exponential decay model. The daily recovery rate of 0.35% was applied to an equation expressing exponential decay resulting in a calculated decay constant (k) of -0.00375874. Based on a decay constant of -0.00375874, the remaining petroleum mass is estimated to be reduced to one-half and one-quarter of its current mass following approximately 184 days and 369 days of DPE operation respectively. Greene will continue to adjust the estimated timeframe to achieve remedial endpoints based on the ongoing long-term implementation of the DPE remediation system. Calculation sheets explaining how the recovery rate and length of DPE implementation were calculated are included in Appendix F.

7.0 Recommendations & Suggested System Modifications

The dual-phase extraction system appears to be operating efficiently both in terms of effectiveness and cost at the Meadows of Dan Food Market facility. Greene recommends continuing with the system operation and maintenance schedule as outlined in the CAP. However, Greene will modify the system sample collection procedure during next monitoring period. Due to the nature of the air stripping process and the air sampling procedures there is potential for the air stripper sample results to vary significantly based on the water flow and air flow rates at the time of sample collection. In an effort to more accurately determine the mass of petroleum removed during air stripping activities, Greene will collect pre- and post- air stripper water samples for mass removal/air stripper efficiency calculations. The calculations generated using the water samples will be more reliable and depict a more accurate representation of hydrocarbon recovery and air stripper efficiency. Further, Greene will no longer collect air samples from the air stripper exhaust stack, which will result in a small decrease in costs associated with system sampling.

End of the CAP Implementation Report Sub-Phase 2

APPENDIX A

Tables

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Table 1.

Summary of Corrective Action Plan Implementation Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW01A	02/10/16	2,966.19	27.84	2,938.35
	02/22/16		27.59	2,938.60
	03/01/16		29.46	2,936.73
	03/04/16		28.54	2,937.65
	03/07/16		29.55	2,936.64
	03/11/16		29.37	2,936.82
	03/15/16		29.32	2,936.87
	03/18/16		29.78	2,936.41
	03/22/16		29.05	2,937.14
	03/25/16		30.83	2,935.36
	03/29/16		33.53	2,932.66
MW02	02/10/16	2,966.24	28.14	2,938.10
	02/22/16		27.98	2,938.26
	03/01/16		32.25	2,933.99
	03/04/16		31.39	2,934.85
	03/07/16		32.61	2,933.63
	03/11/16		31.70	2,934.54
	03/15/16		31.50	2,934.74
	03/18/16		31.63	2,934.61
	03/22/16		31.23	2,935.01
	03/25/16		35.21	2,931.03
	03/29/16		36.24	2,930.00
MW03	02/10/16	2,966.05	29.20	2,936.85
	02/22/16		29.14	2,936.91
	03/01/16		32.16	2,933.89
	03/04/16		30.94	2,935.11
	03/07/16		31.03	2,935.02
	03/11/16		31.38	2,934.67
	03/15/16		30.88	2,935.17
	03/18/16		31.21	2,934.84
	03/22/16		33.86	2,932.19
	03/25/16		33.72	2,932.33
	03/29/16		36.70	2,929.35
MW04	02/10/16	2,965.67	28.95	2,936.72
	02/22/16		28.93	2,936.74
	03/01/16		30.08	2,935.59

Table 1 (Cont'd).

Summary of Corrective Action Plan Implementation Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW04 (Cont'd)	03/04/16	2,965.67	30.18	2,935.49
	03/07/16		30.20	2,935.47
	03/11/16		30.43	2,935.24
	03/15/16		30.47	2,935.20
	03/18/16		30.57	2,935.10
	03/22/16		30.57	2,935.10
	03/25/16		31.25	2,934.42
	03/29/16		32.01	2,933.66
MW05	02/10/16	2,965.57	28.71	2,936.86
	02/22/16		28.70	2,936.87
	03/01/16		30.07	2,935.50
	03/04/16		30.01	2,935.56
	03/07/16		30.15	2,935.42
	03/11/16		30.28	2,935.29
	03/15/16		30.32	2,935.25
	03/18/16		30.43	2,935.14
	03/22/16		30.48	2,935.09
	03/25/16		31.20	2,934.37
	03/29/16		32.05	2,933.52
MW06	02/10/16	2,967.63	27.65	2,939.98
	02/22/16		27.61	2,940.02
	03/01/16		28.94	2,938.69
	03/04/16		29.04	2,938.59
	03/07/16		29.23	2,938.40
	03/11/16		29.42	2,938.21
	03/15/16		29.41	2,938.22
	03/18/16		29.60	2,938.03
	03/22/16		29.72	2,937.91
	03/25/16		30.07	2,937.56
	03/29/16		30.61	2,937.02
MW07	02/10/16	2,966.00	27.86	2,938.14
	02/22/16		27.76	2,938.24
	03/01/16		27.79	2,938.21
	03/04/16		26.46	2,939.54
	03/07/16		27.57	2,938.43
	03/11/16		27.42	2,938.58

Table 1 (Cont'd).

Summary of Corrective Action Plan Implementation Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW07 (Cont'd)	03/15/16	2,966.00	27.62	2,938.38
	03/18/16		27.60	2,938.40
	03/22/16		26.75	2,939.25
	03/25/16		27.30	2,938.70
	03/29/16		33.05	2,932.95
MW08	02/10/16	2,966.74	30.44	2,936.30
	02/22/16		30.46	2,936.28
	03/01/16		30.71	2,936.03
	03/04/16		30.79	2,935.95
	03/07/16		30.94	2,935.80
	03/11/16		31.08	2,935.66
	03/15/16		31.16	2,935.58
	03/18/16		31.24	2,935.50
	03/22/16		31.45	2,935.29
	03/25/16		31.65	2,935.09
	03/29/16		32.17	2,934.57
MW09	02/10/16	2,967.40	31.19	2,936.21
	02/22/16		31.21	2,936.19
	03/01/16		31.69	2,935.71
	03/04/16		31.79	2,935.61
	03/07/16		31.95	2,935.45
	03/11/16		32.08	2,935.32
	03/15/16		32.14	2,935.26
	03/18/16		32.25	2,935.15
	03/22/16		32.37	2,935.03
	03/25/16		32.73	2,934.67
	03/29/16		33.28	2,934.12
MW10	02/10/16	2,966.76	31.87	2,934.89
	02/22/16		31.89	2,934.87
	03/01/16		31.71	2,935.05
	03/04/16		31.63	2,935.13
	03/07/16		31.99	2,934.77
	03/11/16		32.10	2,934.66
	03/15/16		32.10	2,934.66
	03/18/16		32.42	2,934.34
	03/22/16		32.54	2,934.22

Table 1 (Cont'd).

Summary of Corrective Action Plan Implementation Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW10 (Cont'd)	03/25/16	2,966.76	32.56	2,934.20
	03/29/16		32.91	2,933.85
MW11	02/10/16	2,968.11	31.92	2,936.19
	02/22/16		31.91	2,936.20
	03/01/16		32.52	2,935.59
	03/04/16		32.62	2,935.49
	03/07/16		32.75	2,935.36
	03/11/16		32.88	2,935.23
	03/15/16		32.95	2,935.16
	03/18/16		33.03	2,935.08
	03/22/16		33.15	2,934.96
	03/25/16		33.57	2,934.54
	03/29/16		34.16	2,933.95
MW12	02/10/16	2,965.94	27.59	2,938.35
	02/22/16		27.56	2,938.38
	03/01/16		31.10	2,934.84
	03/04/16		29.92	2,936.02
	03/07/16		30.18	2,935.76
	03/11/16		30.28	2,935.66
	03/15/16		30.49	2,935.45
	03/18/16		30.56	2,935.38
	03/22/16		30.42	2,935.52
	03/25/16		34.33	2,931.61
	03/29/16		34.89	2,931.05
MW13	02/10/16	2,965.32	28.17	2,937.15
	02/22/16		28.20	2,937.12
	03/01/16		28.92	2,936.40
	03/04/16		30.96	2,934.36
	03/07/16		29.11	2,936.21
	03/11/16		29.29	2,936.03
	03/15/16		29.37	2,935.95
	03/18/16		29.52	2,935.80
	03/22/16		29.62	2,935.70
	03/25/16		30.90	2,934.42
	03/29/16		30.68	2,934.64

Table 1 (Cont'd).

Summary of Corrective Action Plan Implementation Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW14	02/10/16	2,966.11	29.35	2,936.76
	02/22/16		29.34	2,936.77
	03/01/16		30.95	2,935.16
	03/04/16		30.16	2,935.95
	03/07/16		30.20	2,935.91
	03/11/16		30.21	2,935.90
	03/15/16		30.00	2,936.11
	03/18/16		31.37	2,934.74
	03/22/16		29.98	2,936.13
	03/25/16		35.29	2,930.82
	03/29/16		35.87	2,930.24
MW15	02/10/16	2,967.06	30.30	2,936.76
	02/22/16		30.26	2,936.80
	03/01/16		32.13	2,934.93
	03/04/16		31.28	2,935.78
	03/07/16		31.33	2,935.73
	03/11/16		31.16	2,935.90
	03/15/16		31.41	2,935.65
	03/18/16		31.49	2,935.57
	03/22/16		31.25	2,935.81
	03/25/16		35.16	2,931.90
	03/29/16		36.45	2,930.61
MW16	02/10/16	2,965.29	29.40	2,935.89
	02/22/16		29.44	2,935.85
	03/01/16		29.34	2,935.95
	03/04/16		29.34	2,935.95
	03/07/16		29.53	2,935.76
	03/11/16		29.69	2,935.60
	03/15/16		29.78	2,935.51
	03/18/16		29.91	2,935.38
	03/22/16		30.12	2,935.17
	03/25/16		30.18	2,935.11
	03/29/16		30.65	2,934.64
MW17	02/10/16	2,958.98	24.87	2,934.11
	02/22/16		24.79	2,934.19
	03/01/16		23.68	2,935.30

Table 1 (Cont'd).

Summary of Corrective Action Plan Implementation Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW17 (Cont'd)	03/04/16	2,958.98	23.70	2,935.28
	03/07/16		24.10	2,934.88
	03/11/16		24.51	2,934.47
	03/15/16		24.77	2,934.21
	03/18/16		24.90	2,934.08
	03/22/16		25.00	2,933.98
	03/25/16		24.92	2,934.06
	03/29/16		25.53	2,933.45
MW18	02/10/16	2,969.25	31.35	2,937.90
	02/22/16		31.33	2,937.92
	03/01/16		32.34	2,936.91
	03/04/16		32.44	2,936.81
	03/07/16		32.59	2,936.66
	03/11/16		32.77	2,936.48
	03/15/16		32.77	2,936.48
	03/18/16		32.86	2,936.39
	03/22/16		32.93	2,936.32
	03/25/16		33.64	2,935.61
	03/29/16		34.28	2,934.97
MW19	02/10/16	2,968.05	30.27	2,937.78
	02/22/16		30.27	2,937.78
	03/01/16		28.49	2,939.56
	03/04/16		27.96	2,940.09
	03/07/16		27.97	2,940.08
	03/11/16		27.94	2,940.11
	03/15/16		28.14	2,939.91
	03/18/16		28.23	2,939.82
	03/22/16		28.30	2,939.75
	03/25/16		30.74	2,937.31
	03/29/16		35.89	2,932.16
MW20	02/10/16	2,968.47	32.38	2,936.09
	02/22/16		32.35	2,936.12
	03/01/16		32.90	2,935.57
	03/04/16		32.90	2,935.57
	03/07/16		33.14	2,935.33
	03/11/16		33.23	2,935.24

Table 1 (Cont'd).

Summary of Corrective Action Plan Implementation Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW20 (Cont'd)	03/15/16	2,968.47	33.29	2,935.18
	03/18/16		33.41	2,935.06
	03/22/16		33.50	2,934.97
	03/25/16		33.86	2,934.61
	03/29/16		34.44	2,934.03
MW21	02/10/16	2,967.61	30.82	2,936.79
	02/22/16		30.79	2,936.82
	03/01/16		32.51	2,935.10
	03/04/16		31.75	2,935.86
	03/07/16		31.62	2,935.99
	03/11/16		31.86	2,935.75
	03/15/16		31.79	2,935.82
	03/18/16		32.00	2,935.61
	03/22/16		31.84	2,935.77
	03/25/16		36.12	2,931.49
	03/29/16		37.50	2,930.11
MW22	02/10/16	2,966.98	28.69	2,938.29
	02/22/16		28.64	2,938.34
	03/01/16		32.29	2,934.69
	03/04/16		31.24	2,935.74
	03/07/16		31.28	2,935.70
	03/11/16		31.33	2,935.65
	03/15/16		32.14	2,934.84
	03/18/16		31.34	2,935.64
	03/22/16		31.20	2,935.78
	03/25/16		36.51	2,930.47
	03/29/16		37.14	2,929.84
MW23	02/10/16	2,966.33	27.41	2,938.92
	02/22/16		27.25	2,939.08
	03/01/16		34.80	2,931.53
	03/04/16		34.71	2,931.62
	03/07/16		35.00	2,931.33
	03/11/16		35.00	2,931.33
	03/15/16		31.03	2,935.30
	03/18/16		35.25	2,931.08
	03/22/16		34.50	2,931.83

Table 1 (Cont'd).

Summary of Corrective Action Plan Implementation Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW23 (Cont'd)	03/25/16	2,966.33	34.64	2,931.69
	03/29/16		34.84	2,931.49
MW24	02/10/16	2,965.79	28.82	2,936.97
	02/22/16		28.78	2,937.01
	03/01/16		28.56	2,937.23
	03/04/16		27.69	2,938.10
	03/07/16		27.98	2,937.81
	03/11/16		28.15	2,937.64
	03/15/16		28.07	2,937.72
	03/18/16		28.23	2,937.56
	03/22/16		27.60	2,938.19
	03/25/16		28.36	2,937.43
	03/29/16		33.42	2,932.37
MW25	02/10/16	2,966.88	28.02	2,938.86
	02/22/16		27.97	2,938.91
	03/01/16		29.11	2,937.77
	03/04/16		29.85	2,937.03
	03/07/16		28.66	2,938.22
	03/11/16		28.83	2,938.05
	03/15/16		29.11	2,937.77
	03/18/16		28.66	2,938.22
	03/22/16		28.90	2,937.98
	03/25/16		29.45	2,937.43
	03/29/16		33.00	2,933.88
MW26	02/10/16	2,965.54	28.65	2,936.89
	02/22/16		28.64	2,936.90
	03/01/16		30.08	2,935.46
	03/04/16		29.52	2,936.02
	03/07/16		29.60	2,935.94
	03/11/16		29.55	2,935.99
	03/15/16		29.59	2,935.95
	03/18/16		29.72	2,935.82
	03/22/16		29.30	2,936.24
	03/25/16		34.21	2,931.33
	03/29/16		35.00	2,930.54

Table 1 (Cont'd).

Summary of Corrective Action Plan Implementation Groundwater Elevation Data

Location	Date	Relative Top of Casing Elevation[1] (feet)	Depth to Groundwater[2] (feet)	Relative Groundwater Elevation (feet)
MW27	02/10/16	2,966.28	26.32	2,939.96
	02/22/16		26.30	2,939.98
	03/01/16		24.88	2,941.40
	03/04/16		24.39	2,941.89
	03/07/16		24.59	2,941.69
	03/11/16		24.86	2,941.42
	03/15/16		25.08	2,941.20
	03/18/16		25.02	2,941.26
	03/22/16		24.90	2,941.38
	03/25/16		29.00	2,937.28
	03/29/16		29.54	2,936.74
MW28	02/10/16	2,967.54	29.46	2,938.08
	02/22/16		29.39	2,938.15
	03/01/16		32.03	2,935.51
	03/04/16		30.93	2,936.61
	03/07/16		31.12	2,936.42
	03/11/16		31.13	2,936.41
	03/15/16		30.93	2,936.61
	03/18/16		31.21	2,936.33
	03/22/16		30.90	2,936.64
	03/25/16		35.81	2,931.73
	03/29/16		38.53	2,929.01

[1]Elevations measured by Fork Mountain Surveying and Mapping, Inc. relative to an approximate site elevation of 2,968 feet.
[2]If free phase petroleum was observed, depth to groundwater was calculated using a site specific gasoline density of 0.7439 g/ml.

Table 2.

Summary of CAP IMP SP2 Remediation System Dissolved Phase Analytical Results

Sample ID	Date	TPH-GRO[1]	Benzene[2]	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	Ethanol	pH[3]
INF01	02/23/16	125,000	1,180	14,500	3,830	22,100	2,970	NA[4]	NA	NA
INF02	02/26/16	65,200	889	8,490	2,100	13,100	3,460	NA	NA	NA
INF03	03/01/16	111,000	708	14,500	4,000	23,800	2,320	ND[5]	NA	NA
INF04	03/07/16	79,600	602	8,430	2,420	14,400	1,950	ND	NA	NA
INF05	03/15/16	6,730	338	4,300	1,230	7,440	1,820	481[6]	NA	NA
INF06	03/22/16	160,000	1,210	18,300	4,630	26,800	1,670	1,140[6]	NA	NA
EFF01	02/23/16	ND	ND	ND	ND	ND	ND	NA	NA	NA
EFF02	02/26/16	ND	ND	ND	ND	ND	2.60	NA	3,640	7.29
EFF03	03/01/16	ND	ND	ND	ND	ND	32.6	ND	NA	NA
EFF04	03/07/16	117	ND	ND	ND	ND	68.4	ND	NA	NA
EFF05	03/15/16	232	ND	ND	ND	ND	142	ND	ND	7.26
EFF06	03/22/16	141	ND	ND	ND	ND	197	ND	NA	NA

[1]TPH (gasoline range organics) analysis via U.S. EPA SW-846 method 8015B; reported in micrograms per liter (µg/L).
[2]BTEX, MTBE, naphthalene, and ethanol analysis via U.S. EPA SW-846 method 8260; reported in µg/L.
[3]pH analysis via U.S. EPA SW-846 method 9040.
[4]NA = Not applicable.
[5]ND = Non detected at reporting limit or method detection limit.
[6]The reported result is an estimate. The reported concentration is less than the reported detection limit (RDL) but equal to or above the method detection limit (MDL).

Table 3.

Summary of the Dissolved Phase Mass Recovery Totals[1]

Reporting Period	TPH-GRO	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
07/01/15-03/31/16	125.37	1.13	15.69	4.17	24.65	3.25
Operation Total	**125.37**	**1.13**	**15.69**	**4.17**	**24.65**	**3.25**

[1]Recovery totals are reported in pounds.

Table 4.

Summary of CAP IMP SP2 Remediation System Vapor Phase Analytical Results

Sample ID	Date	TVPH[1]	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
RCP01	02/23/16	10,800	57.5	951	98.7	377	21.2
RCP02	02/26/16	6,590	59.3	438	85.4	356.5	21.4
RCP03	03/01/16	5,540	38.7	364	78.9	318.7	21.8
RCP04	03/07/16	2,030	20.4	291	33.4	131.4	10.2
RCP05	03/15/16	2,280	17.5	212	39.4	181.3	6.35
RCP06	03/22/16	29,900	86.6	2,890	472	1,899	12.3
RCP07	03/25/16	6,240	67.4	709	140	557	16.3
AS01	02/23/16	997	10.1	139	45.2	221.4	20.4
AS02	02/26/16	8.17	0.189	1.5	0.402	2.066	1.04
AS03	03/01/16	132	1.63	13.8	4.02	21.2	7.21
AS04	03/07/16	79.5	2.72	27.3	4.33	18.55	20.2
AS05	03/15/16	96.3	1.78	21.9	5.83	33.9	8.28
AS06	03/22/16	734	12.0	253	57.2	267.4	14.6

[1]TVPH, BTEX, and MTBE analysis via U.S. EPA SW-846 method 18; reported in milligrams per cubic meter (mg/m^3).

Table 5.

Summary of the Vapor Phase Mass Recovery Totals[1]

Reporting Period	Exhaust Stream	TVPH	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
07/01/15-03/31/16	Rotary Claw Pump	10,067.26	55.18	930.01	150.55	606.91	17.40
Operation Total		**10,067.26**	**55.18**	**930.01**	**150.55**	**606.91**	**17.40**

[1]Recovery totals are reported in pounds.

Table 6.

Summary of Remediation System Treatment Efficiency

Reporting Period	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TPH-GRO
07/01/15-03/31/16	100%	100%	100%	100%	96.88%	99.91%

Table 7.

Summary of DPE Remediation System Air Emissions

Reporting Period	System Component	Average TVPH (mg/m^3)	Calculated Monthly Emissions (tons)	Total Monthly Emissions (tons)	Total Emissions to Date (tons)	Predicted Total Annual Emissions (tons)	Annual Exemption Rate (tons/year)
02/22/16-02/29/16	RCP Exhaust	8,695	0.66	0.68	0.68	8.16	65
	Air Stripper Exhaust	502.59	0.015				
03/01/16-03/31/16	RCP Exhaust	9,198	4.42	4.46	5.14	30.84	65
	Air Stripper Exhaust	260.45	0.038				

Table 8.

Summary of Corrective Action Plan Implementation Free Product Thicknesses

Location	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW01A	02/10/16	27.09	30.03	2.94
	02/22/16	27.29	28.45	1.16
	03/01/16	NA[1]	29.46	0.00
	03/04/16	NA	28.54	0.00
	03/07/16	NA	29.55	0.00
	03/11/16	NA	29.37	0.00
	03/15/16	NA	29.32	0.00
	03/18/16	NA	29.78	0.00
	03/22/16	28.67	30.14	1.47
	03/25/16	NA	30.83	0.00
	03/29/16	33.52	33.55	0.03

Table 8 (Cont'd).

Summary of Corrective Action Plan Implementation Free Product Thicknesses

Location	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW02	02/10/16	27.69	29.45	1.76
	02/22/16	27.69	28.84	1.15
	03/01/16	NA	32.25	0.00
	03/04/16	NA	31.39	0.00
	03/07/16	NA	32.61	0.00
	03/11/16	NA	31.70	0.00
	03/15/16	NA	31.50	0.00
	03/18/16	NA	31.63	0.00
	03/22/16	NA	31.23	0.00
	03/25/16	NA	35.21	0.00
	03/29/16	NA	36.24	0.00
MW03	02/10/16	28.37	31.61	3.24
	02/22/16	28.33	31.49	3.16
	03/01/16	30.89	35.85	4.96
	03/04/16	NA	30.94	0.00
	03/07/16	NA	31.03	0.00
	03/11/16	NA	31.38	0.00
	03/15/16	NA	30.88	0.00
	03/18/16	NA	31.21	0.00
	03/22/16	NA	33.86	0.00
	03/25/16	33.70	33.78	0.08
	03/29/16	NA	36.70	0.00
MW07	02/10/16	NA	27.86	0.00
	02/22/16	NA	27.76	0.00
	03/01/16	NA	27.79	0.00
	03/04/16	NA	26.46	0.00
	03/07/16	NA	27.57	0.00
	03/11/16	NA	27.42	0.00
	03/15/16	NA	27.62	0.00
	03/18/16	NA	27.60	0.00
	03/22/16	NA	26.75	0.00
	03/25/16	NA	27.30	0.00
	03/29/16	NA	33.05	0.00
MW12	02/10/16	27.12	28.96	1.84
	02/22/16	27.08	28.95	1.87
	03/01/16	NA	31.10	0.00

Table 8 (Cont'd).

Summary of Corrective Action Plan Implementation Free Product Thicknesses

Location	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW12 (Cont'd)	03/04/16	NA	29.92	0.00
	03/07/16	NA	30.18	0.00
	03/11/16	NA	30.28	0.00
	03/15/16	NA	30.49	0.00
	03/18/16	NA	30.56	0.00
	03/22/16	30.14	31.24	1.10
	03/25/16	NA	34.33	0.00
	03/29/16	NA	34.89	0.00
MW14	02/10/16	28.84	30.85	2.01
	02/22/16	28.75	31.05	2.30
	03/01/16	NA	30.95	0.00
	03/04/16	NA	30.16	0.00
	03/07/16	NA	30.20	0.00
	03/11/16	NA	30.21	0.00
	03/15/16	NA	30.00	0.00
	03/18/16	NA	31.37	0.00
	03/22/16	NA	29.98	0.00
	03/25/16	NA	35.29	0.00
	03/29/16	NA	35.87	0.00
MW15	02/10/16	29.64	32.20	2.56
	02/22/16	29.64	32.05	2.41
	03/01/16	NA	32.13	0.00
	03/04/16	NA	31.28	0.00
	03/07/16	NA	31.33	0.00
	03/11/16	NA	31.16	0.00
	03/15/16	NA	31.41	0.00
	03/18/16	NA	31.49	0.00
	03/22/16	NA	31.25	0.00
	03/25/16	NA	35.16	0.00
	03/29/16	NA	36.45	0.00
MW19	02/10/16	NA	30.27	0.00
	02/22/16	NA	30.27	0.00
	03/01/16	NA	28.49	0.00
	03/04/16	NA	27.96	0.00
	03/07/16	NA	27.97	0.00
	03/11/16	NA	27.94	0.00

Table 8 (Cont'd).

Summary of Corrective Action Plan Implementation Free Product Thicknesses

Location	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW19 (Cont'd)	03/15/16	NA	28.14	0.00
	03/18/16	NA	28.23	0.00
	03/22/16	NA	28.30	0.00
	03/25/16	NA	30.74	0.00
	03/29/16	35.87	35.96	0.09
MW21	02/10/16	30.26	32.43	2.17
	02/22/16	30.26	32.33	2.07
	03/01/16	NA	32.51	0.00
	03/04/16	NA	31.75	0.00
	03/07/16	NA	31.62	0.00
	03/11/16	NA	31.86	0.00
	03/15/16	NA	31.79	0.00
	03/18/16	NA	32.00	0.00
	03/22/16	NA	31.84	0.00
	03/25/16	NA	36.12	0.00
	03/29/16	NA	37.50	0.00
MW22	02/10/16	28.66	28.78	0.12
	02/22/16	28.63	28.68	0.05
	03/01/16	NA	32.29	0.00
	03/04/16	NA	31.24	0.00
	03/07/16	NA	31.28	0.00
	03/11/16	NA	31.33	0.00
	03/15/16	NA	32.14	0.00
	03/18/16	NA	31.34	0.00
	03/22/16	NA	31.20	0.00
	03/25/16	NA	36.51	0.00
	03/29/16	NA	37.14	0.00
MW23	02/10/16	26.76	29.30	2.54
	02/22/16	26.74	28.74	2.00
	03/01/16	NA	34.80	0.00
	03/04/16	NA	34.71	0.00
	03/07/16	NA	35.00	0.00
	03/11/16	NA	35.00	0.00
	03/15/16	NA	31.03	0.00
	03/18/16	NA	35.25	0.00
	03/22/16	NA	34.50	0.00

Table 8 (Cont'd).

Summary of Corrective Action Plan Implementation Free Product Thicknesses

Location	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW23 (Cont'd)	03/25/16	NA	34.64	0.00
	03/29/16	NA	34.84	0.00
MW24	02/10/16	28.79	28.91	0.12
	02/22/16	28.77	28.79	0.02
	03/01/16	NA	28.56	0.00
	03/04/16	NA	27.69	0.00
	03/07/16	NA	27.98	0.00
	03/11/16	NA	28.15	0.00
	03/15/16	NA	28.07	0.00
	03/18/16	NA	28.23	0.00
	03/22/16	NA	27.60	0.00
	03/25/16	NA	28.36	0.00
	03/29/16	33.39	33.52	0.13
MW25	02/10/16	NA	28.02	0.00
	02/22/16	NA	27.97	0.00
	03/01/16	NA	29.11	0.00
	03/04/16	NA	29.85	0.00
	03/07/16	NA	28.66	0.00
	03/11/16	NA	28.83	0.00
	03/15/16	NA	29.11	0.00
	03/18/16	NA	28.66	0.00
	03/22/16	NA	28.90	0.00
	03/25/16	NA	29.45	0.00
	03/29/16	NA	33.00	0.00
MW26	02/10/16	27.91	30.81	2.90
	02/22/16	27.90	30.79	2.89
	03/01/16	NA	30.08	0.00
	03/04/16	NA	29.52	0.00
	03/07/16	NA	29.60	0.00
	03/11/16	NA	29.55	0.00
	03/15/16	NA	29.59	0.00
	03/18/16	NA	29.72	0.00
	03/22/16	NA	29.30	0.00
	03/25/16	NA	34.21	0.00
	03/29/16	NA	35.00	0.00

Table 8 (Cont'd).

Summary of Corrective Action Plan Implementation Free Product Thicknesses

Location	Date	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)
MW27	02/10/16	NA	26.32	0.00
	02/22/16	NA	26.30	0.00
	03/01/16	NA	24.88	0.00
	03/04/16	NA	24.39	0.00
	03/07/16	NA	24.59	0.00
	03/11/16	NA	24.86	0.00
	03/15/16	NA	25.08	0.00
	03/18/16	NA	25.02	0.00
	03/22/16	NA	24.90	0.00
	03/25/16	NA	29.00	0.00
	03/29/16	NA	29.54	0.00
MW28	02/10/16	29.19	30.24	1.05
	02/22/16	29.16	30.04	0.88
	03/01/16	NA	32.03	0.00
	03/04/16	NA	30.93	0.00
	03/07/16	NA	31.12	0.00
	03/11/16	NA	31.13	0.00
	03/15/16	NA	30.93	0.00
	03/18/16	NA	31.21	0.00
	03/22/16	NA	30.90	0.00
	03/25/16	NA	35.81	0.00
	03/29/16	NA	38.53	0.00

[1]NA = Not applicable.

Table 9.

Summary of Monitoring Well Dissolved Phase Analytical Results

Well Identification	Date	TPH-GRO[1]	TPH-DRO[2]	Benzene[3]	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene
MW01A	05/14/14	187,000	9,090	4,950	46,300	4,060	22,000	4,530	439
	11/05/14	158,000	NA[4]	6,470	36,100	3,880	21,500	17,500	438
	02/10/16	47,800[5]	NA	8,140	45,400	4,050	30,300	14,400	415
MW02	05/14/14	190,000	11,300	6,280	42,900	4,170	22,000	11,700	912
	11/05/14	171,000	NA	8,330	43,400	4,030	21,600	17,500	ND[6]
	02/10/16	44,400[5]	NA	7,660	42,400	3,810	28,100	17,700	413
MW03	05/14/14	122,000	5,550	2,130	27,000	3,100	16,400	1,750	444
	11/05/14	158,000	NA	7,140	42,000	3,850	20,900	8,080	463
	02/10/16	124,000	NA	6,250	43,600	4,410	34,500	6,620	470
MW04	03/12/14	3,870	1,220	483	81.4	30.4	347	1,500	11.7
	05/14/14	4,130	1,220	532	23.2	14.6	303	1,150	ND
	11/05/14	4,920	NA	680	4.25	12.4	375	2,340	ND
	02/11/16	13,200	NA	1,130	2,080	439	3,336	2,830	421
MW05	03/12/14	4,080	607	501	47.2	81.9	590	1,350	9.77
	05/14/14	651	120	67.3	3.32	13.1	94.8	228	ND
	11/05/14	5,680	NA	739	51.5	185	1,630	1,460	21.5
	02/11/16	411[5]	NA	1,130	1,890	416	2,981	2,300	69.0[5]
MW06	03/12/14	136	230	ND	3.18	2.98	18.7	4.46	ND
	05/14/14	ND	289	ND	ND	ND	ND	1.12	ND
	11/05/14	391	NA	5.24	7.12	4.28	5.06	111	ND
	02/11/16	476[5]	NA	16.4	34.5	1.02	7.35	ND	ND
MW07	05/14/14	34,700	4,980	1,090	5,070	1,070	6,360	625	166
	11/05/14	63,200	NA	2,870	13,400	2,030	10,500	3,110	191
	02/11/16	55,600	NA	3,320	15,800	1,530	12,030	10,600	158
MW08	05/14/14	ND	145	ND	ND	ND	ND	1.32	ND
	11/06/14	ND	NA	ND	ND	ND	ND	ND	ND
	02/11/16	ND	NA	ND	1.31	ND	ND	ND	ND
MW09	05/14/14	ND	ND	ND	ND	ND	ND	ND	ND
	11/06/14	ND	NA	ND	ND	ND	ND	ND	ND
	02/11/16	ND	NA	ND	ND	ND	ND	3.44[5]	ND

Table 9 (Cont'd).

Summary of Monitoring Well Dissolved Phase Analytical Results

Well Identification	Date	TPH-GRO[1]	TPH-DRO[2]	Benzene[3]	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene
MW10	05/14/14	ND	ND	ND	ND	ND	ND	129	ND
	11/06/14	192	NA	ND	ND	ND	ND	238	ND
	02/11/16	ND	NA	ND	ND	ND	ND	188	ND
MW11	05/14/14	ND	107	ND	ND	ND	ND	ND	ND
	11/06/14	ND	NA	1.2	5.66	ND	ND	10	ND
	02/11/16	17,700	NA	1,170	4,960	757	4,270	ND	ND
MW12	05/14/14	124,000	23,700	762	19,800	5,260	28,800	117	710
	11/05/14	71,200	NA	167	5,140	2,390	15,400	33.1	1,250
	02/10/16	96,800	NA	6,760	36,500	4,460	35,700	1,380	678
MW13	05/14/14	ND	ND	ND	ND	ND	ND	9.14	ND
	11/05/14	ND	NA	ND	ND	ND	ND	28.9	ND
	02/11/16	ND	NA	ND	ND	ND	ND	16.1	ND
MW14	05/14/14	189,000	7,380	7,720	44,800	5,260	29,400	5,850	628
	11/05/14	154,000	NA	7,200	39,200	3,890	21,500	4,830	455
	02/10/16	92,800	NA	5,920	37,600	4,520	39,400	2,930	1,530
MW15	05/14/14	178,000	8,500	9,310	48,700	5,160	27,500	4,040	547
	11/05/14	158,000	NA	7,890	41,200	3,980	21,700	2,270	472
	02/10/16	82,600	NA	7,250	34,300	4,040	31,200	973	ND
MW16	05/14/14	ND	ND	ND	ND	ND	ND	8.82	ND
	11/06/14	ND	NA	ND	ND	ND	ND	13.4	ND
	02/11/16	ND	NA	ND	ND	ND	ND	10.9	ND
MW17	05/14/14	ND	ND	ND	ND	ND	ND	ND	ND
	11/06/14	ND	NA	ND	ND	ND	ND	ND	ND
	02/11/16	ND	NA	ND	ND	ND	ND	ND	ND
MW18	05/14/14	ND	234	1.65	ND	ND	3.97	ND	ND
	11/05/14	ND	NA	ND	ND	ND	ND	ND	ND
	02/11/16	ND	NA	ND	ND	ND	0.800[5]	ND	ND
MW19	05/14/14	29,900	7,220	315	4,400	994	4,680	97.3	179
	11/05/14	17,000	NA	201	2,160	526	3,020	39.3	244
	02/11/16	14,600	NA	201	1,930	530	4,500	ND	66.6

Table 9 (Cont'd).

Summary of Monitoring Well Dissolved Phase Analytical Results

Well Identification	Date	TPH-GRO[1]	TPH-DRO[2]	Benzene[3]	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene
MW20	11/06/14	146	NA	ND	ND	ND	ND	20.4	ND
	02/11/16	310[5]	NA	16.6	19.7	ND	29.0	ND	ND
MW21	11/05/14	154,000	NA	7,710	40,700	3,710	20,200	1,820	1,100
	02/10/16	85,900	NA	7,760	44,200	4,240	33,400	1,260	540
MW22	11/05/14	124,000	NA	5,060	26,200	3,580	18,000	2,030	527
	02/10/16	80,400	NA	5,890	34,800	4,250	33,700	4,330	887
MW23	11/05/14	142,000	NA	3,850	34,600	4,300	22,600	2,080	494
	02/10/16	75,800	NA	5,160	35,600	4,040	30,500	6,140	717
MW24	11/05/14	156,000	NA	5,800	36,700	4,000	23,200	2,350	731
	02/10/16	46,600[5]	NA	656	13,600	3,000	25,600	3,750	661
MW25	11/05/14	135,000	NA	3,620	29,300	4,080	21,200	2,680	590
	02/11/16	11,100	NA	94.0[5]	1,770	465	3,960	411[5]	289
MW26	11/05/14	158,000	NA	6,330	38,900	3,610	19,200	5,400	425
	02/10/16	92,800	NA	7,080	35,700	3,880	33,200	6,900	758
MW27	11/05/14	755	NA	6.61	5.75	2.61	34.7	27.1	6.08
	02/11/16	ND	NA	ND	ND	ND	ND	ND	ND
MW28	11/05/14	99,600	NA	2,500	17,700	3,480	17,800	981	483
	02/10/16	69,800	NA	4,360	37,700	4,520	34,300	ND	798

[1]TPH (gasoline range organics) analysis via U.S. EPA SW-846 method 8015B; reported in micrograms per liter (µg/L).
[2]TPH (diesel range organics) analysis via U.S. EPA SW-846 method 8015B; reported in µg/L.
[3]BTEX, MTBE, naphthalene analysis via U.S. EPA SW-846 method 8021B; reported in µg/L.
[4]NA = Not applicable.
[5]The reported result is an estimate. The reported concentration is less than the reported detection limit (RDL) but equal to or above the method detection limit (MDL).
[6]ND = Non detected at method detection limit.

Table 10.

Summary of the ¼-Mile Radius Receptor Survey Results

Receptor ID	Name/Address[1]	Well/Spring Location From UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
DW01	Meadows of Dan Food Market 2609 Jeb Stuart Highway	~75 feet Northwest	Property maintains a drilled supply well with steel casing located within the store building. The date of installation and additional construction details are unknown.
DW02	Poor Farmer's Market 2616 Jeb Stuart Highway	~135 feet South	Property maintains a drilled supply well with steel casing located within the store building. The well was reportedly installed in 1962. Additional construction details are unknown. A residence is also located on the property, which obtains potable water from the same onsite supply well. Carbon filtration units have been installed as part of the VA DEQ alternate water supply program.
DW03	Jane's County Café 2588 Jeb Stuart Highway	~255 feet Southwest	Property maintains a drilled supply well with steel casing located within a well house behind the café. The date of installation and additional construction details are unknown. Carbon filtration units have been installed as part of the VA DEQ alternate water supply program.
DW04	Former Janie Stidham Property 2554 Jeb Stuart Highway	~375 feet Southwest	A drilled supply well is located beneath the wooden porch at the DW04 property. The drilled supply well provides potable water to the properties identified as DW04, DW05, and DW06. The date of installation and additional construction details are unknown. Carbon filtration units have been installed as part of the VA DEQ alternate water supply program.
DW05	Commercial Property (For Sale) Formerly Dan River Books 36 Concord Road		
DW06	Cassell Farms Property 10 Concord Road		
DW07	Mountain Meadow Farm & Craft (seasonal) 12134 Squirrel Spur Road	~1,210 feet Southwest	A spring/spring house is located on the DW08 property. The spring reportedly provides potable water to both the DW07 and DW08 properties.
DW08	Greenberry House Yarn 12206 Squirrel Spur Road	~730 feet Southwest	
DW09	Burnette Residence 282 Concord Road	~1,300 feet Southeast	Property maintains a spring/spring house that reportedly provides potable water to the property.
DW10	Meadows of Dan Community Center 2858 Jeb Stuart Highway	~1,350 feet East-Southeast	Property maintains a drilled supply well (DW10) located within the Meadows of Dan Community Center building. The date of installation and construction details are unknown.
DW23		~1,500 feet East-Southeast	Property maintains an additional drilled supply well (DW23) located on the property. Greene was unable to collect a sample during CAP IMP SP2 due to the pump having not yet been installed. The supply well was reportedly installed to a depth of 275 feet.

Table 10 (Cont'd).

Summary of the ¼-Mile Radius Receptor Survey Results

Receptor ID	Name/Address[1]	Well/Spring Location From UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
DW11	Agee Residence 2883 Jeb Stuart Highway	~1,415 feet East-Northeast	Property maintains a drilled supply well with PVC casing located on the east side of the residence. The date of installation and additional construction details are unknown.
DW22		~1,415 feet East-Northeast	Property maintains an additional drilled supply well (DW22) located on the property. The supply well is currently being utilized to provide potable water to the residence and was reportedly to a depth of 225 feet.
DW12	Spangler Residence 2734 Jeb Stuart Highway	~630 feet East-Southeast	Property reportedly maintains a drilled supply well located on the south side of the residence. The supply well casing is reportedly buried and its exact location is unknown. The date of installation and additional construction details are unknown. Carbon filtration units have been installed as part of the VA DEQ alternate water supply program.
DW13	Stanley Residence 2727 Jeb Stuart Highway	~550 feet East-Northeast	Property maintains a drilled supply well with steel casing located on the south side of the residence. The supply well is reportedly 340 feet deep; however, the date of installation and additional construction details are unknown.
DW14	Private Residence 2685 Jeb Stuart Highway	~325 feet East	Property maintains a drilled supply well with PVC casing located on the south side of the residence. The supply well was reportedly installed in ~2008-2009. Additional construction details are unknown.
DW15	Nancy's Candy Company 2684 Jeb Stuart Highway	~470 feet Southeast	Property maintains a drilled supply well with steel casing located on the south side of the building. The supply well was installed in 1998 to approximately 405 feet below the ground surface. In addition, 105 feet of steel casing was installed and the well was grouted from 0-50 feet. Carbon filtration units have been installed as part of the VA DEQ alternate water supply program.
DW16	Commercial Property Former Mountain House Restaurant 2639 Jeb Stuart Highway	~175 feet East	Property maintains a drilled supply well with steel casing located within a well house on the east side of the property. The supply well was reportedly installed in 1982 to approximately 280 feet below the ground surface. Additional construction details are unknown.
DW17	Commercial Building (Multiple Businesses) 2577 Jeb Stuart Highway Meadows Merchant Building LLC	~200 feet Northwest	Property maintains a drilled supply well with steel casing located on the north side of the property. The top of casing is located below the ground within larger concrete casing. The date of installation and additional construction details are unknown.
DW18	Meadows of Dan Baptist Church 2511 Jeb Stuart Highway	~400 feet Northwest	Property maintains a drilled supply well with steel casing located within the parsonage. The date of installation and additional construction details are unknown.

Table 10 (Cont'd).

Summary of the ¼-Mile Radius Receptor Survey Results

Receptor ID	Name/Address[1]	Well/Spring Location From UST System	Potential Receptor Information, Current Use, Installation Date, & Construction Details
DW19	Century Link Property 2646 Jeb Stuart Highway	~190 feet Southeast	Property maintains a drilled supply well located on the north side of the property. The top of casing is located below the ground within a manway. The date of installation and additional construction details are unknown.
DW20	Pond	~1,130 feet Southwest	The pond is located on the DW07 property and drains to an intermittent tributary to Tuggle Creek.
DW21	Stanley Residence 2827 Jeb Stuart Highway	~1,150 feet Northeast	Property maintains a drilled supply well. The well was reportedly installed to a depth of 185 feet.
DW24	Unnamed Tributary	~950 feet East	Unnamed intermittent tributary to Tuggle Creek.
DW25	Unnamed Tributary	~1,030 feet Southwest	Unnamed intermittent tributary to Tuggle Creek.

[1]Addresses are located in Meadows of Dan, VA 24120

Table 11.

Summary of Drinking Water Dissolved Phase Analytical Results

Receptor ID	Sample Date	VOCs[1]	SVOCs[2]
DW01	01/31/14	ND[3] for all VOCs via 8260	NA[4]
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/14/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	11/07/14	ND for all VOCs via 8260	NA
	02/11/16	ND for all VOCs via 8260	NA
DW02 (outside hydrant)	01/31/14	MTBE = 76.9; ND for all other VOCs via 8260	NA
	02/07/14	MTBE = 74.6; ND for all other VOCs via 8260	NA
	02/10/14	NA	ND for all SVOCs via 8270
	02/19/14[5]	MTBE = 35.1; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	05/15/14[5]	MTBE = 56.7 Diisopropyl ether (DIPE) = 0.7 ND for all other VOCs via 8260	NA
	08/26/14[5]	MTBE = 33.5; ND for all other VOCs via 8260	NA

Table 11 (Cont'd).

Summary of Drinking Water Dissolved Phase Analytical Results

Receptor ID	Sample Date	VOCs[1]	SVOCs[2]
DW02 (outside hydrant)	12/18/14[5]	MTBE = 14.9; ND for all other VOCs via 8260	NA
	04/23/15[5]	MTBE = 21.6; ND for all other VOCs via 8260	NA
DW02 (kitchen faucet)	02/07/14	MTBE = 76.5; ND for all other VOCs via 8260	NA
	02/10/14	NA	ND for all SVOCs via 8270
DW03	01/31/14	Benzene = 14.4 1,2-Dichloroethane = 1.24 MTBE = 38.7 ND for all other VOCs via 8260	NA
	02/07/14	MTBE = 2.71; ND for all other VOCs via 8260	NA
	02/10/14	NA	ND for all SVOCs via 8270
	02/17/14	MTBE = 1.83; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	02/19/14[5]	MTBE = 5.0; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	04/16/14[5]	MTBE = 4.4; ND for all other VOCs via 8260	NA
	10/30/14[5]	TAME = 0.8 Benzene = 6.7 1,2-Dichloroethane = 4.6 MTBE = 63.5 Xylenes = 7.9 ND for all other VOCs via 8260	NA
	04/23/15[5]	TAME = 0.6 Benzene = 22.6 1,2-Dichloroethane = 0.6 DIPE = 5.8 MTBE = 44.2 Naphthalene = 1.9 ND for all other VOCs via 8260	NA
	04/30/15[6]	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/12/15[6]	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/12/15[5]	TAME = 0.7 Benzene = 44.2 1,2-Dichloroethane = 1.1 DIPE = 7.7 MTBE = 51.4 Naphthalene = 3.0 Xylenes = 46.7 ND for all other VOCs via 8260	Naphthalene = 2.7; ND for all other SVOCs via 8270

Table 11 (Cont'd).

Summary of Drinking Water Dissolved Phase Analytical Results

Receptor ID	Sample Date	VOCs[1]	SVOCs[2]
DW04 DW05 DW06	03/30/15	Benzene = 21.9 Isopropylbenzene = 0.960 MTBE = 47.6 Naphthalene = 1.81 Xylenes = 26.9 ND for all other VOCs via 8260	Bis(2-ethylhexl) phthalate = 7.10; ND for all other SVOCs via 8270
	04/20/15	Benzene = 16.0 MTBE = 34.9 Xylenes = 24.3 ND for all other VOCs via 8260	ND for all SVOCs via 8270
	05/18/15[5]	TAME = 0.9 Benzene = 62.4 DIPE = 8.3 MTBE = 55.3 Naphthalene = 3.1 Xylenes = 57.3 ND for all other VOCs via 8260	Naphthalene = 2.7; ND for all other SVOCs via 8270
DW07 DW08	03/12/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/14/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	11/07/14	ND for all VOCs via 8260	NA
	02/11/16	ND for all VOCs via 8260	NA
DW09	02/25/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	03/12/14	ND for all VOCs via 8260	Bis(2-ethylhexl) phthalate = 21.0; ND for all other SVOCs via 8270
DW10	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
DW11	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
DW12	01/31/14	MTBE = 3.62; ND for all other VOCs via 8260	NA
	02/07/14	MTBE = 3.40; ND for all other VOCs via 8260	NA
	02/10/14	NA	ND for all SVOCs via 8270
	03/06/14[5]	MTBE = 3.5; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	05/15/14[5]	MTBE = 3.4; ND for all other VOCs via 8260	NA
	10/30/14[5]	MTBE = 3.5; ND for all other VOCs via 8260	NA
	04/23/15[5]	MTBE = 3.7; ND for all other VOCs via 8260	NA

Table 11 (Cont'd).

Summary of Drinking Water Dissolved Phase Analytical Results

Receptor ID	Sample Date	VOCs[1]	SVOCs[2]
DW13	01/31/14	ND for all VOCs via 8260	NA
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/14/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	11/07/14	ND for all VOCs via 8260	NA
	02/11/16	Chloroform = 0.620[7] ND for all VOCs via 8260	NA
DW14	01/31/14	ND for all VOCs via 8260	NA
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	05/14/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	11/07/14	ND for all VOCs via 8260	NA
	02/11/16	ND for all VOCs via 8260	NA
MW15	02/10/14	MTBE = 10.9; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	02/17/14	MTBE = 15.5; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	02/19/14[5]	MTBE = 15.7; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	03/14/14[5]	Acetone = 1,270 2-Butanone (MEK) = 926 MTBE = 15.6 ND for all other VOCs via 8260	NA
	04/16/14[5]	MTBE = 18.8; ND for all other VOCs via 8260	NA
	05/15/14[5]	MTBE = 18.3; ND for all other VOCs via 8260	NA
	08/26/14[5]	MTBE = 25.2; ND for all other VOCs via 8260	NA
	12/18/14[5]	MTBE = 17.3; ND for all other VOCs via 8260	NA
	04/23/15[5]	MTBE = 21.8; ND for all other VOCs via 8260	NA
MW16	01/31/14	ND for all VOCs via 8260	NA
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	07/01/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	08/01/14	Chloroform = 1.84; ND for all other VOCs via 8260	ND for all SVOCs via 8270
	09/25/14	ND for all VOCs via 8260	ND for all SVOCs via 8270

Table 11 (Cont'd).

Summary of Drinking Water Dissolved Phase Analytical Results

Receptor ID	Sample Date	VOCs[1]	SVOCs[2]
DW17	01/31/14	ND for all VOCs via 8260	NA
	02/10/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	11/07/14	ND for all VOCs via 8260	NA
	03/04/16	ND for all VOCs via 8260	NA
DW18	02/26/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	03/12/14	ND for all VOCs via 8260	Bis(2-ethylhexl) phthalate = 26.1; ND for all other SVOCs via 8270
DW19	02/25/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	03/12/14	ND for all VOCs via 8260	ND for all SVOCs via 8270
	06/25/14	ND for all VOCs via 8260	NA
	11/20/14	ND for all VOCs via 8260	NA
	02/11/16	Toluene = 3.87; ND for all other VOCs via 8260	NA
	02/26/16	DIPE = 1.41; ND for all other VOCs via 8260	NA
	03/15/16	1,1-Dichloroethane = 0.413[7] 1,2-Dichloroethane = 0.758[7] DIPE = 1.48 MTBE = 0.773[7] ND for all other VOCs via 8260	NA
DW21	02/11/16	ND for all VOCs via 8260	NA
DW22	02/26/16	ND for all VOCs via 8260	NA

[1]VOCs (Volatile Organic Compounds) analysis via U.S. EPA SW-846 method 8260B; reported in micrograms per liter (µg/L).
[2]SVOCs (Semi-Volatile Organic Compounds) analysis via U.S. EPA SW-846 method 8270C; reported in µg/L.
[3]ND = Non Detected at laboratory method detection limits.
[4]NA = Not Analyzed.
[5]Drinking water samples collected on behalf of the VA DEQ AWS program.
[6]Drinking water samples collected by Greene from the DW03 supply well while the property was being provided water from the DW04 property.
[7]The reported result is an estimate. The reported concentration is less than the reported detection limit (RDL) but equal to or above the method detection limit (MDL).

Table 12.
Summary of CAP IMP SP2 Vacuum Readings

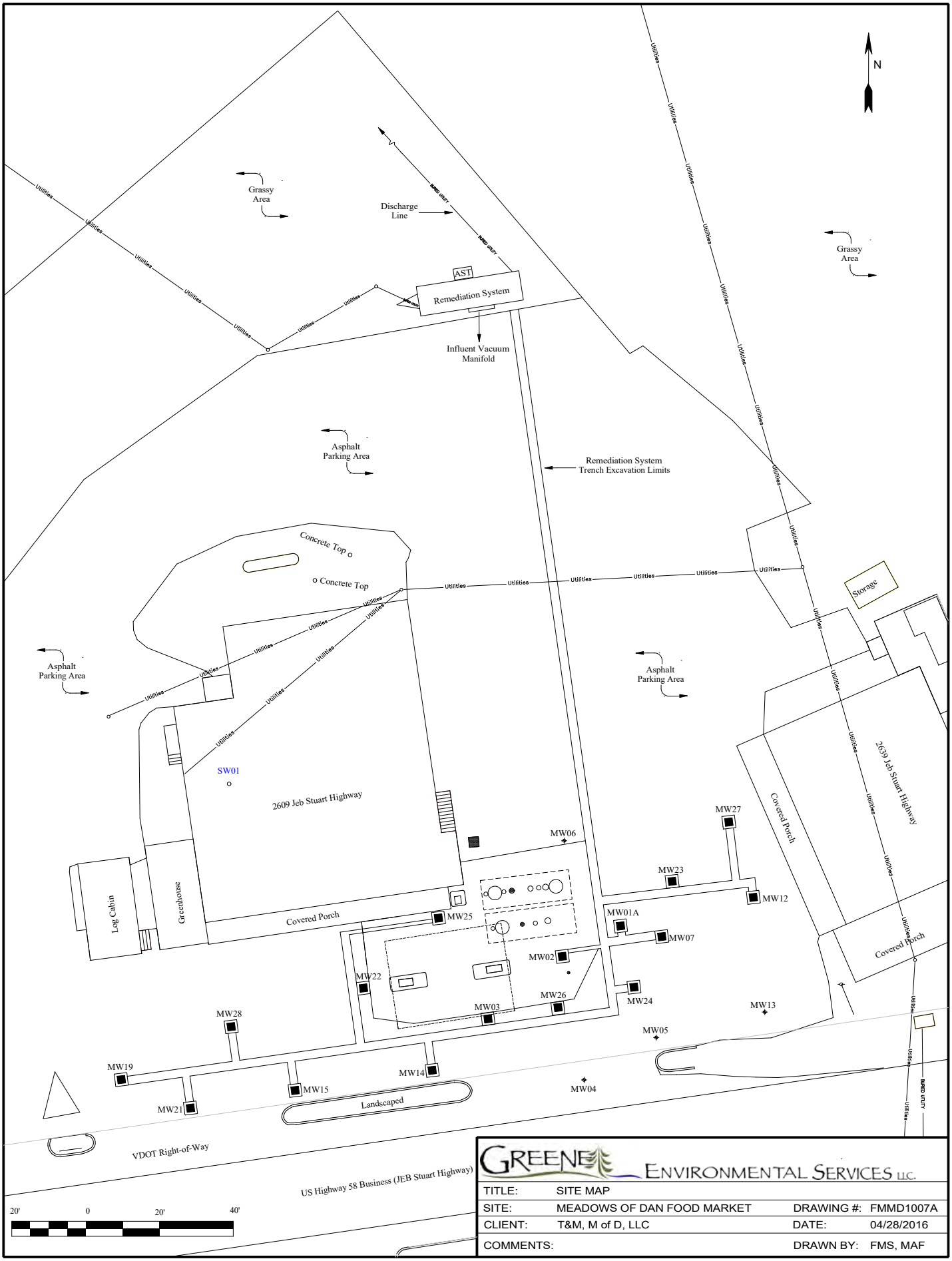
Well Identification	Vacuum Readings (Inches of Water Column)								
	3/1/16	3/4/16	3/7/16	3/11/16	3/15/16	3/18/16	3/22/16	3/25/16	3/29/16
MW01A	203.94	190.34	176.75	203.94	176.75	197.14	190.34	163.15	176.75
MW02	163.15	163.15	163.15	163.15	163.15	163.15	156.35	149.56	149.56
MW03	149.56	NA[1]	163.15	176.75	176.75	176.75	169.95	163.15	163.15
MW04	NA	1.00	1.75	1.50	1.77	1.20	1.40	4.65	4.80
MW05	NA	1.35	1.20	1.05	1.63	1.17	1.25	2.60	3.00
MW06	NA	0.10	0.12	0.10	0.20	0.12	0.12	0.24	0.30
MW07	163.15	NA	NA	NA	183.55	NA	135.96	135.96	135.96
MW08	NA	0.02	0.01	0.00	0.12	0.00	0.02	0.15	0.17
MW09	NA	0.10	0.02	0.00	0.02	0.03	0.02	0.25	0.30
MW10	NA	0.01	0.01	0.03	0.00	0.05	0.00	0.00	0.01
MW11	NA	0.10	0.12	0.16	0.23	0.15	0.06	0.50	0.70
MW12	203.94	0.00	217.54	203.94	183.55	190.34	149.56	176.75	129.16
MW13	NA	0.68	0.62	0.55	0.87	0.58	0.65	1.12	1.60
MW14	135.96	163.15	135.96	163.15	163.15	169.95	163.15	149.56	149.56
MW15	197.14	244.73	183.55	176.75	176.75	176.75	169.95	163.15	163.15
MW16	NA	0.00	0.02	0.01	0.03	0.00	0.00	0.10	0.04
MW17	NA	NA	NA	NA	NA	NA	0.00	NA	0.00
MW18	NA	0.60	0.55	0.55	0.60	0.40	0.56	2.05	2.10
MW19	NA	NA	NA	163.15	169.95	176.75	163.15	163.15	176.75
MW20	NA	0.16	0.05	0.13	0.17	0.06	0.05	0.45	0.70
MW21	203.94	149.56	217.54	163.15	169.95	176.75	176.75	149.56	163.15
MW22	190.34	176.75	176.75	169.95	169.95	163.15	149.56	149.56	156.35
MW23	122.36	108.77	122.36	163.15	163.15	163.15	156.35	NA	190.34
MW24	149.56	135.96	135.96	197.14	176.75	169.95	169.95	163.15	176.75
MW25	163.15	163.15	176.75	176.75	169.95	176.75	163.15	163.15	176.75
MW26	NA	NA	NA	176.75	176.75	169.95	156.35	163.15	176.75
MW27	224.33	163.15	203.94	163.15	176.75	163.15	169.95	NA	NA
MW28	203.94	176.75	176.75	176.75	176.75	183.55	149.56	135.96	108.77

[1]NA = Not Applicable.

APPENDIX B

Maps

Site Map
Potential Receptors Location Map
CAP IMP SP2 Potentiometric Surface Map (02/22/2016)
CAP IMP SP2 Potentiometric Surface Map (03/29/2016)
CAP IMP SP2 Free Phase Plume Map (02/22/2016)
CAP IMP SP2 TPH-GRO Isoconcentration Map
CAP IMP SP2 Benzene Isoconcentration Map
CAP IMP SP2 Toluene Isoconcentration Map
CAP IMP SP2 Ethylbenzene Isoconcentration Map
CAP IMP SP2 Xylenes Isoconcentration Map
CAP IMP SP2 MTBE Isoconcentration Map
CAP IMP SP2 Naphthalene Isoconcentration Map
CAP IMP SP2 Total BTEX Isoconcentration Map
CAP IMP SP2 Drawdown Map (03/29/2016)
CAP IMP SP2 Radius of Influence Map (03/29/2016)

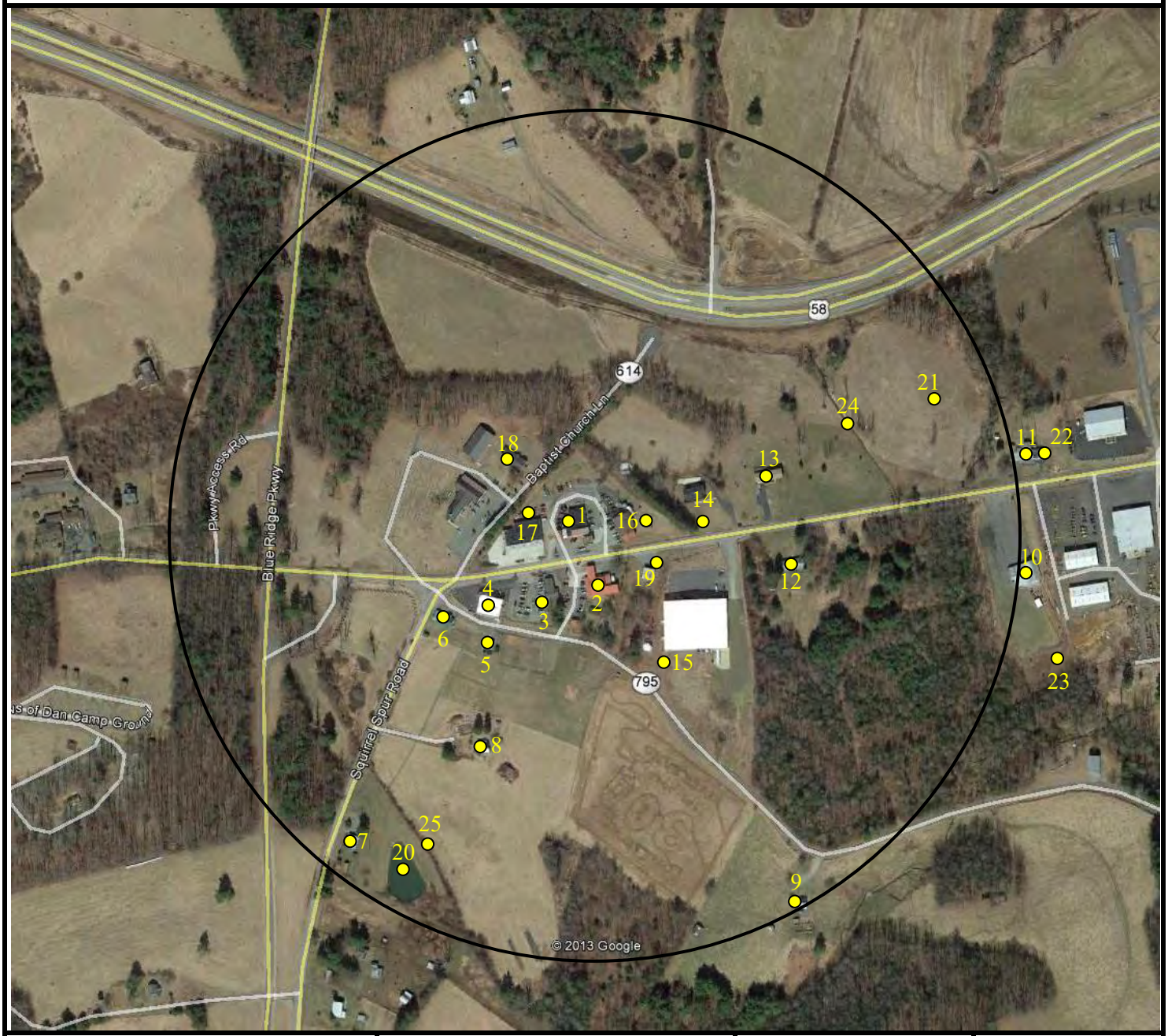


GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	SITE MAP		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007A
CLIENT:	T&M, M of D, LLC	DATE:	04/28/2016
COMMENTS:		DRAWN BY:	FMS, MAF

Potential Receptors Location Map

Meadows of Dan Food Market
2609 Jeb Stuart Highway
Meadows of Dan, Virginia 24120



GREENE ENVIRONMENTAL SERVICES LLC
200 Buckwheat Lane, Rocky Mount, Virginia 24151

Office: 540-483-3311 or 800-215-2596
Fax: 540-483-3381

www.greene-environmental.com

PATRICK COUNTY, VIRGINIA

Source: Google Earth

Scale: Not to Scale

Project: CAP IMP SP2

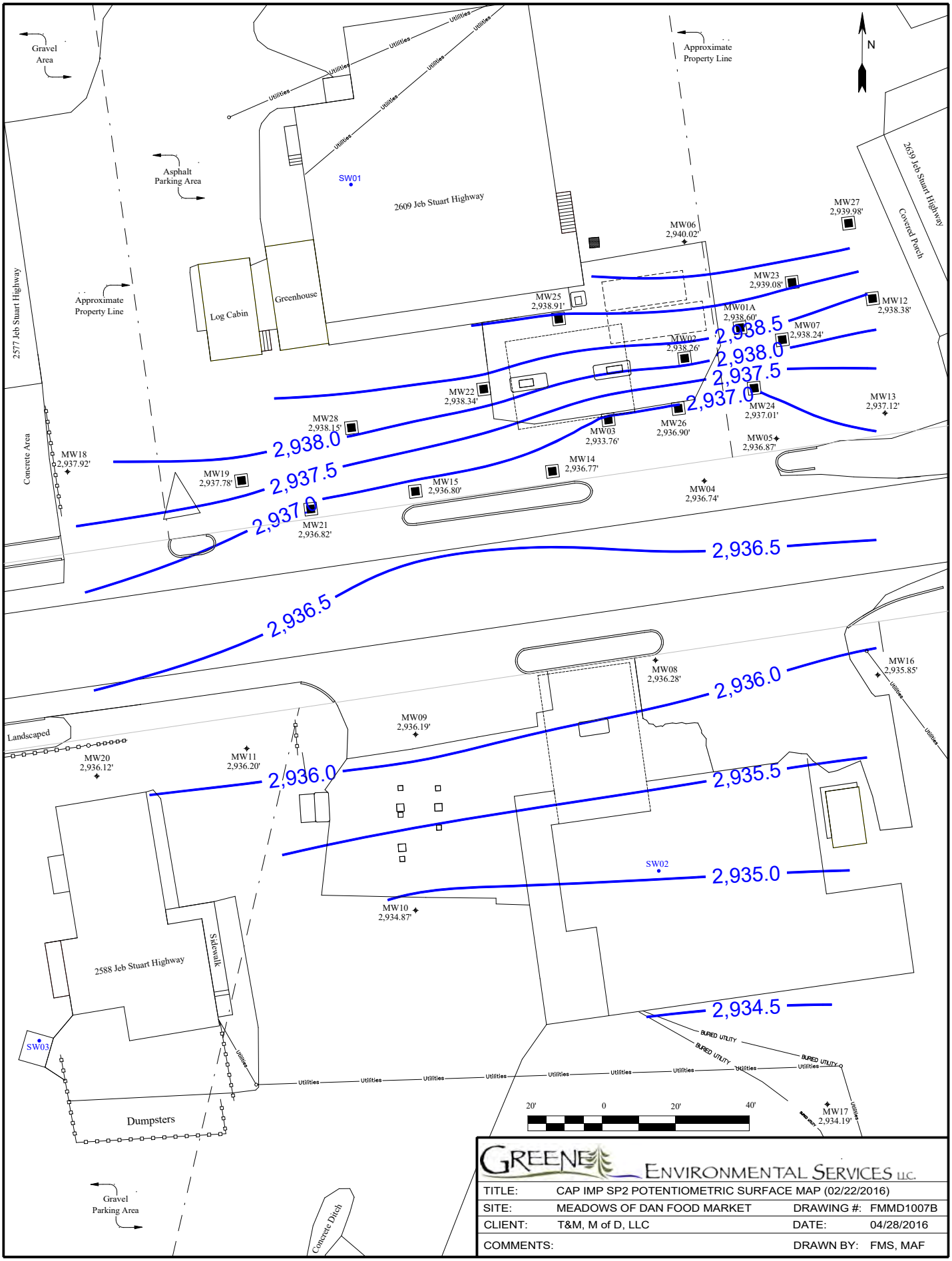
Client: T&M, M of D, L.L.C.

Greene Job #: FMMD1007

Date: May 10, 2016

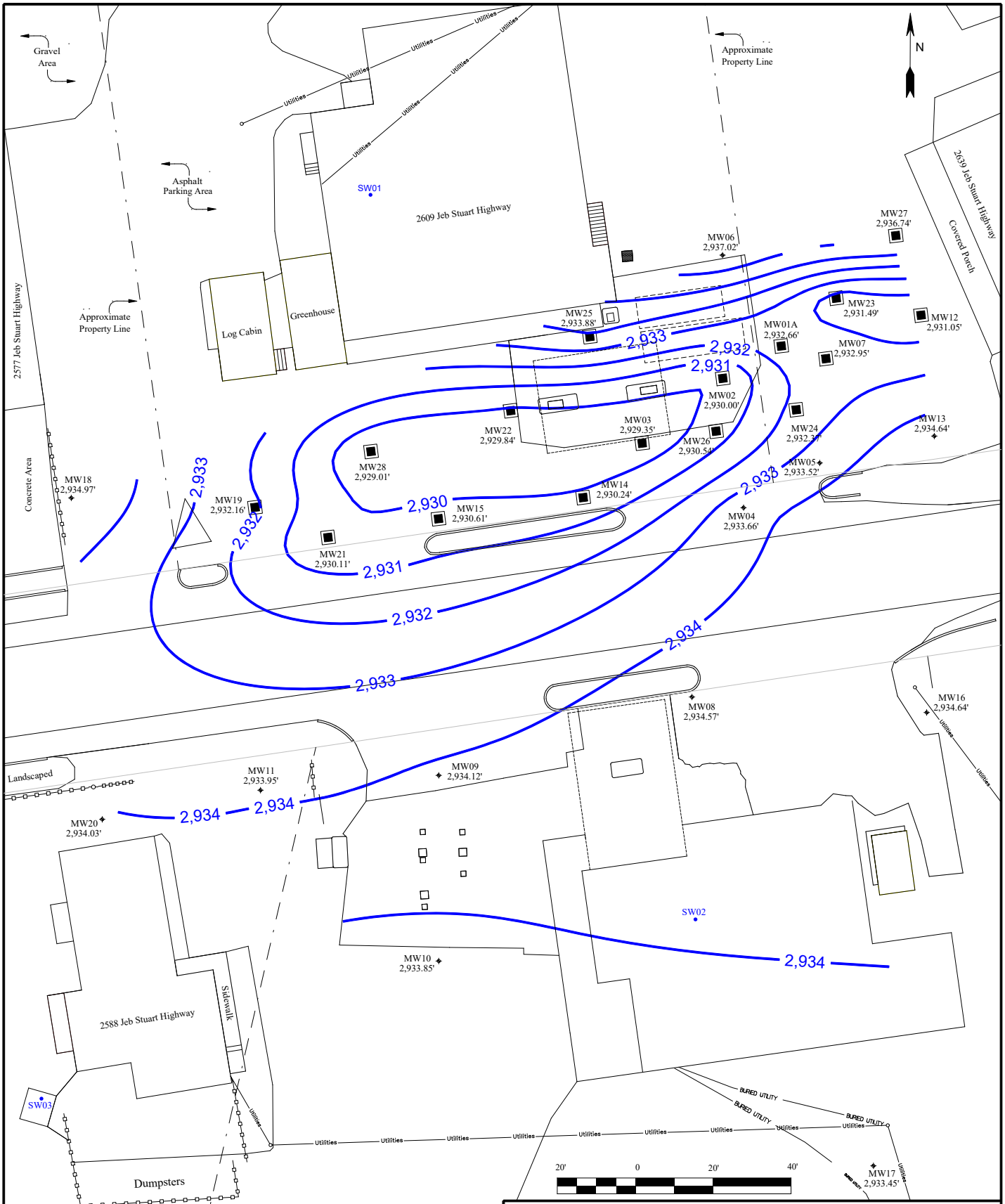
N
W E
S

Latitude:
036.7353972° N
Longitude:
080.4077838° W



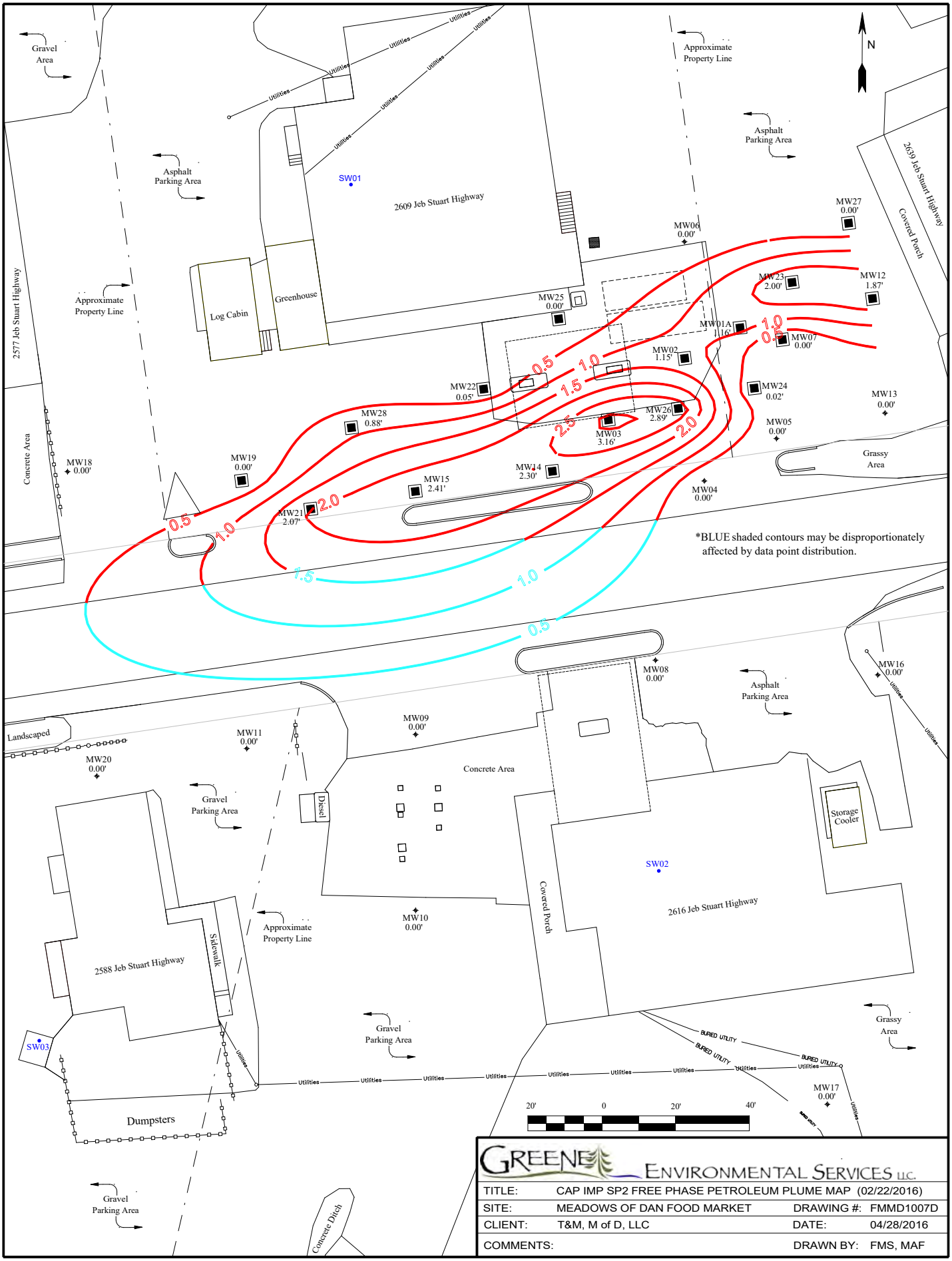
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 POTENTIOMETRIC SURFACE MAP (02/22/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007B
CLIENT:	T&M, M of D, LLC	DATE:	04/28/2016
COMMENTS:		DRAWN BY:	FMS, MAF



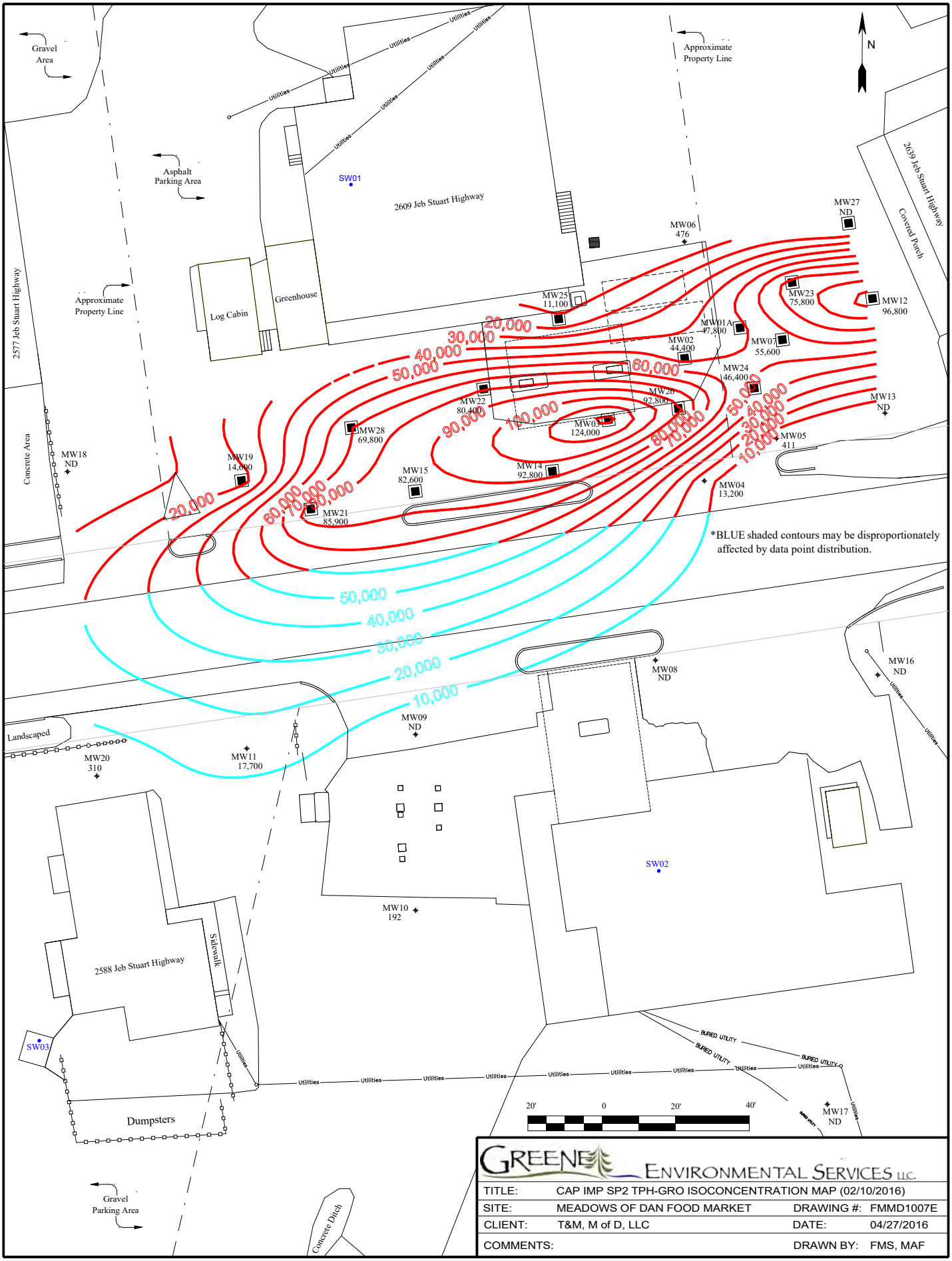
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 POTENTIOMETRIC SURFACE MAP (03/29/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007C
CLIENT:	T&M, M of D, LLC	DATE:	04/28/2016
COMMENTS:		DRAWN BY:	FMS, MAF



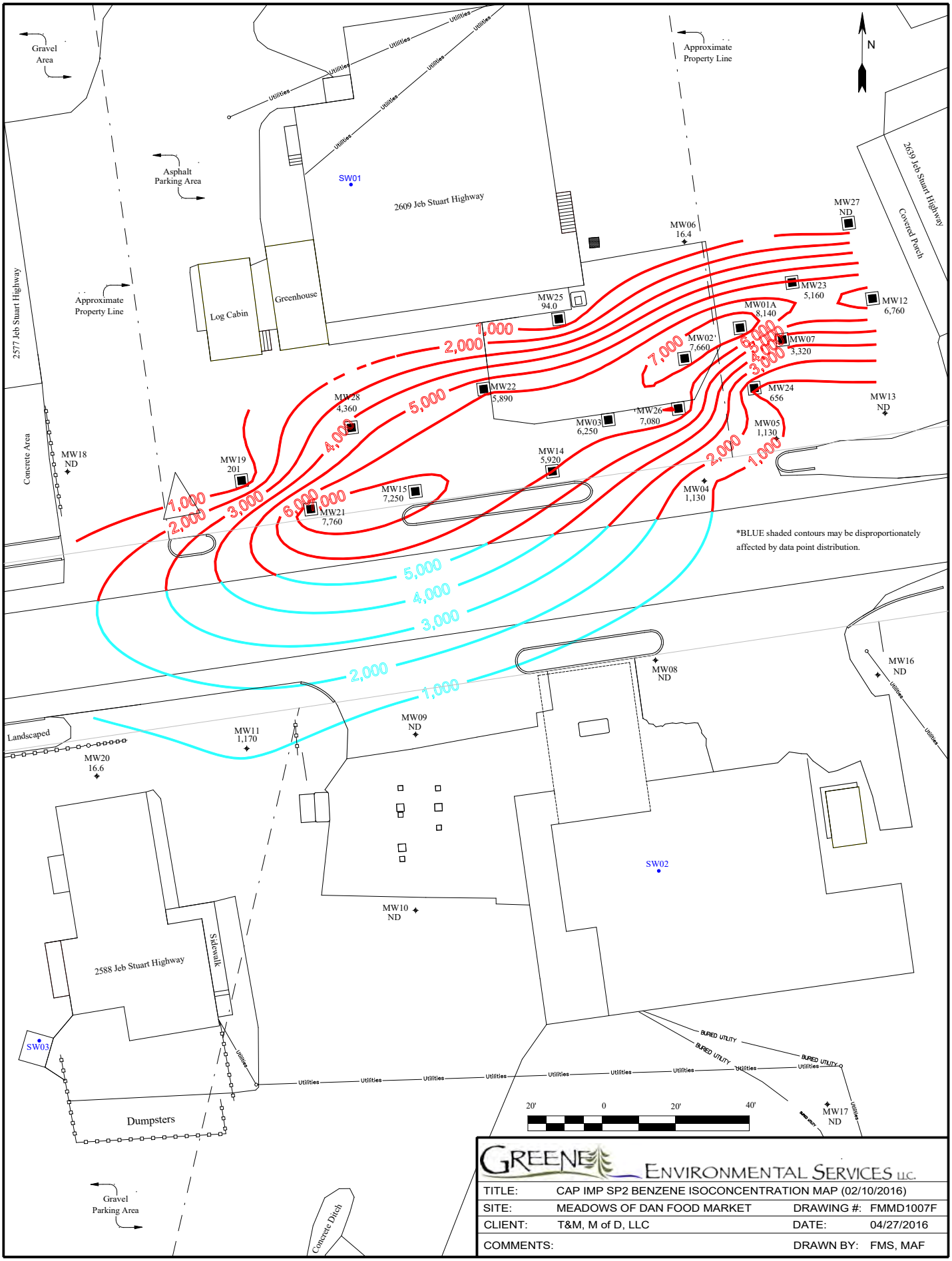
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 FREE PHASE PETROLEUM PLUME MAP (02/22/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007D
CLIENT:	T&M, M of D, LLC	DATE:	04/28/2016
COMMENTS:		DRAWN BY:	FMS, MAF



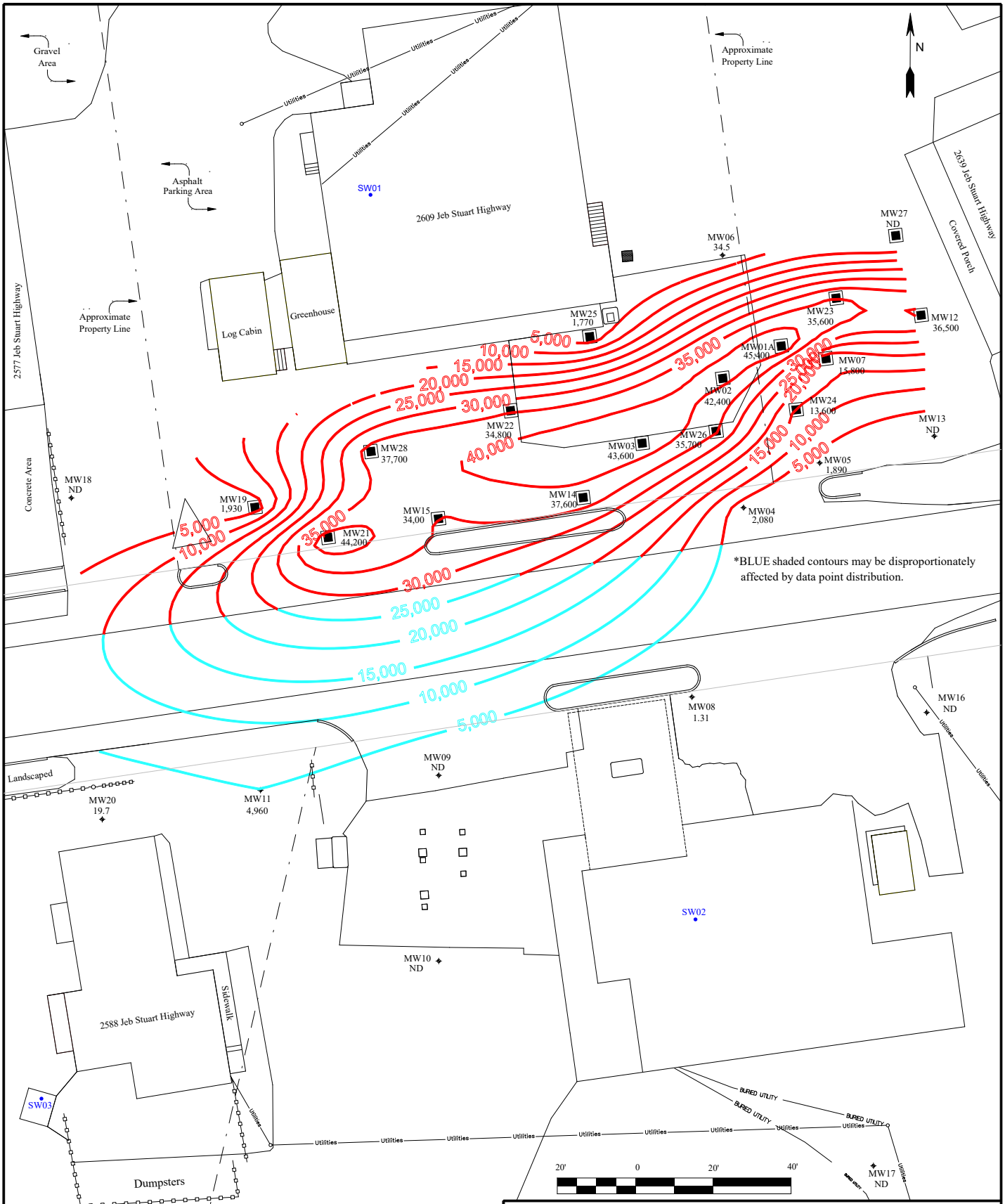
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 TPH-GRO ISOCONCENTRATION MAP (02/10/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007E
CLIENT:	T&M, M of D, LLC	DATE:	04/27/2016
COMMENTS:		DRAWN BY:	FMS, MAF



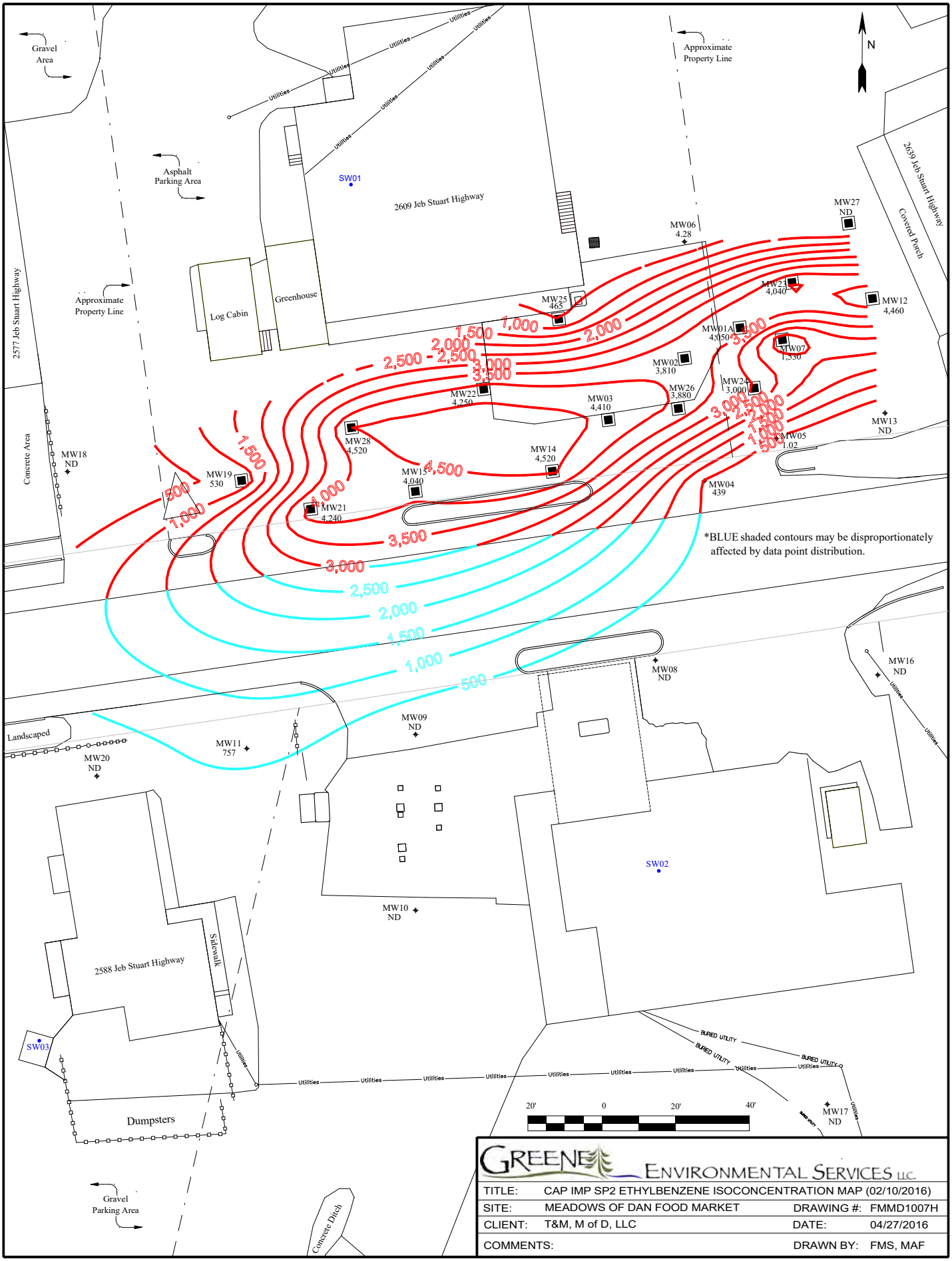
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 BENZENE ISOCONCENTRATION MAP (02/10/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007F
CLIENT:	T&M, M of D, LLC	DATE:	04/27/2016
COMMENTS:		DRAWN BY:	FMS, MAF



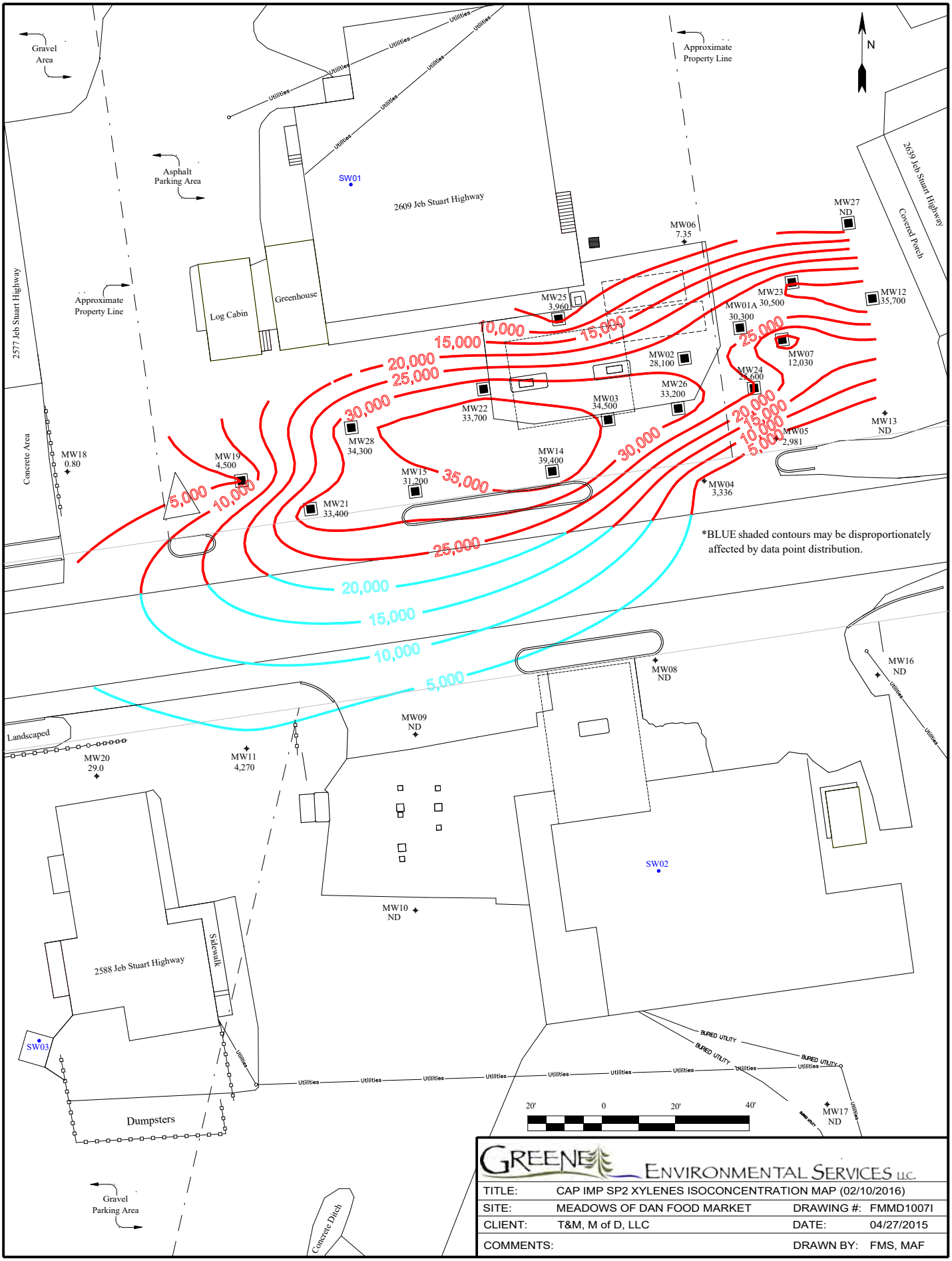
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 TOLUENE ISOCONCENTRATION MAP (02/10/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007G
CLIENT:	T&M, M of D, LLC	DATE:	04/27/2016
COMMENTS:		DRAWN BY:	FMS, MAF



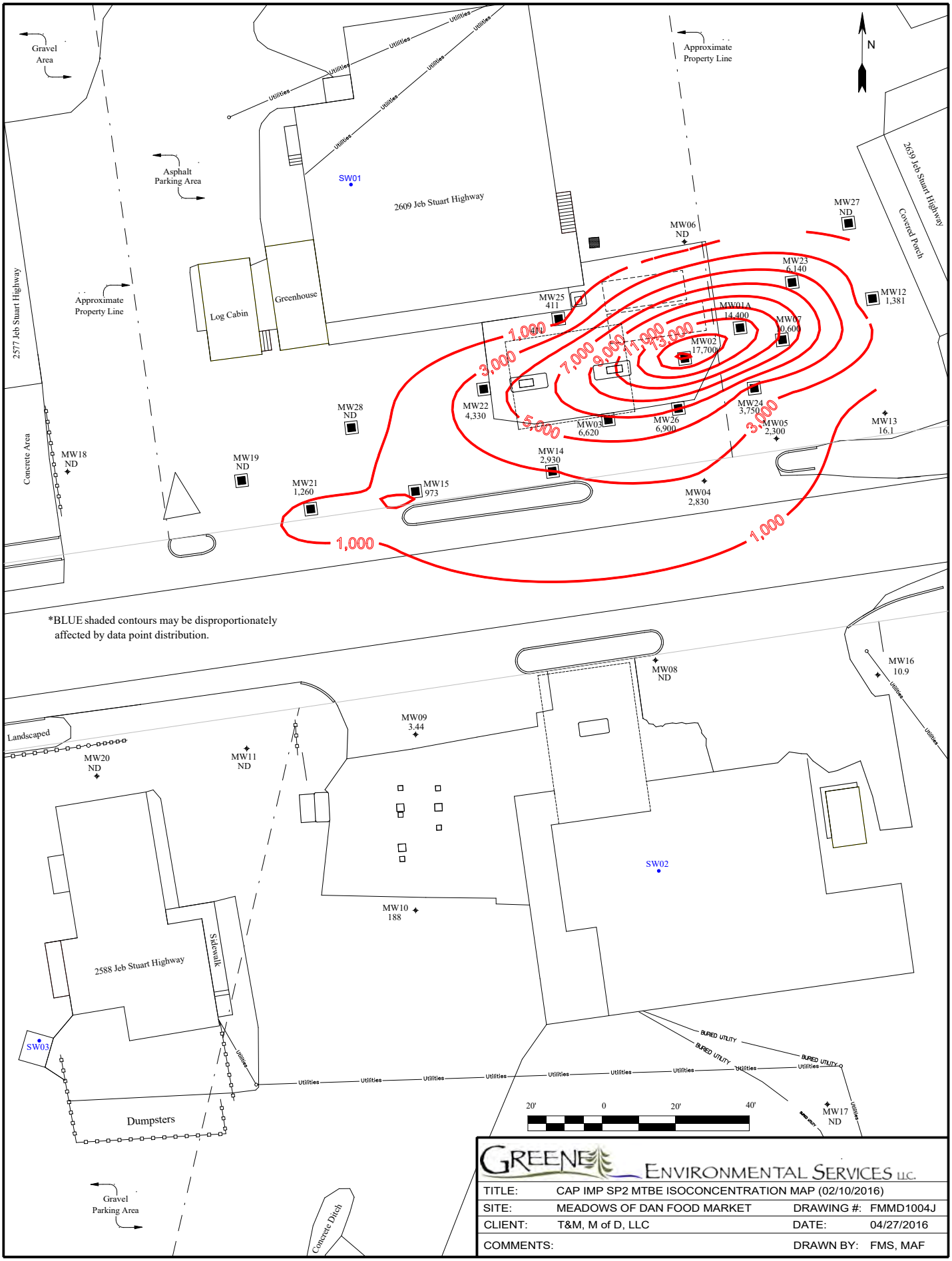
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 ETHYLBENZENE ISOCONCENTRATION MAP (02/10/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007H
CLIENT:	T&M, M of D, LLC	DATE:	04/27/2016
COMMENTS:		DRAWN BY:	FMS, MAF



GREENE ENVIRONMENTAL SERVICES LLC.

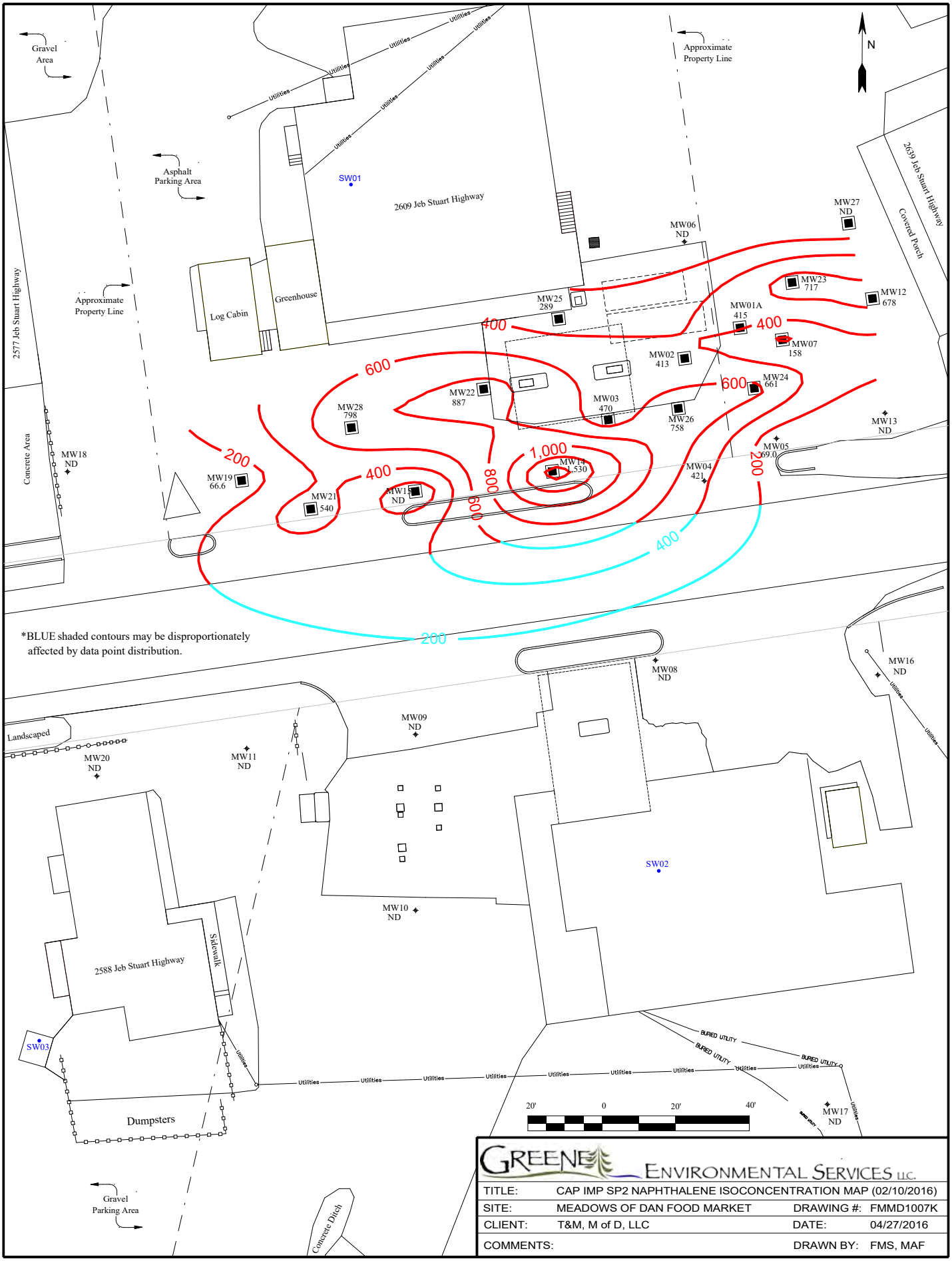
TITLE:	CAP IMP SP2 XYLENES ISOCONCENTRATION MAP (02/10/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007I
CLIENT:	T&M, M of D, LLC	DATE:	04/27/2015
COMMENTS:		DRAWN BY:	FMS, MAF



*BLUE shaded contours may be disproportionately affected by data point distribution.

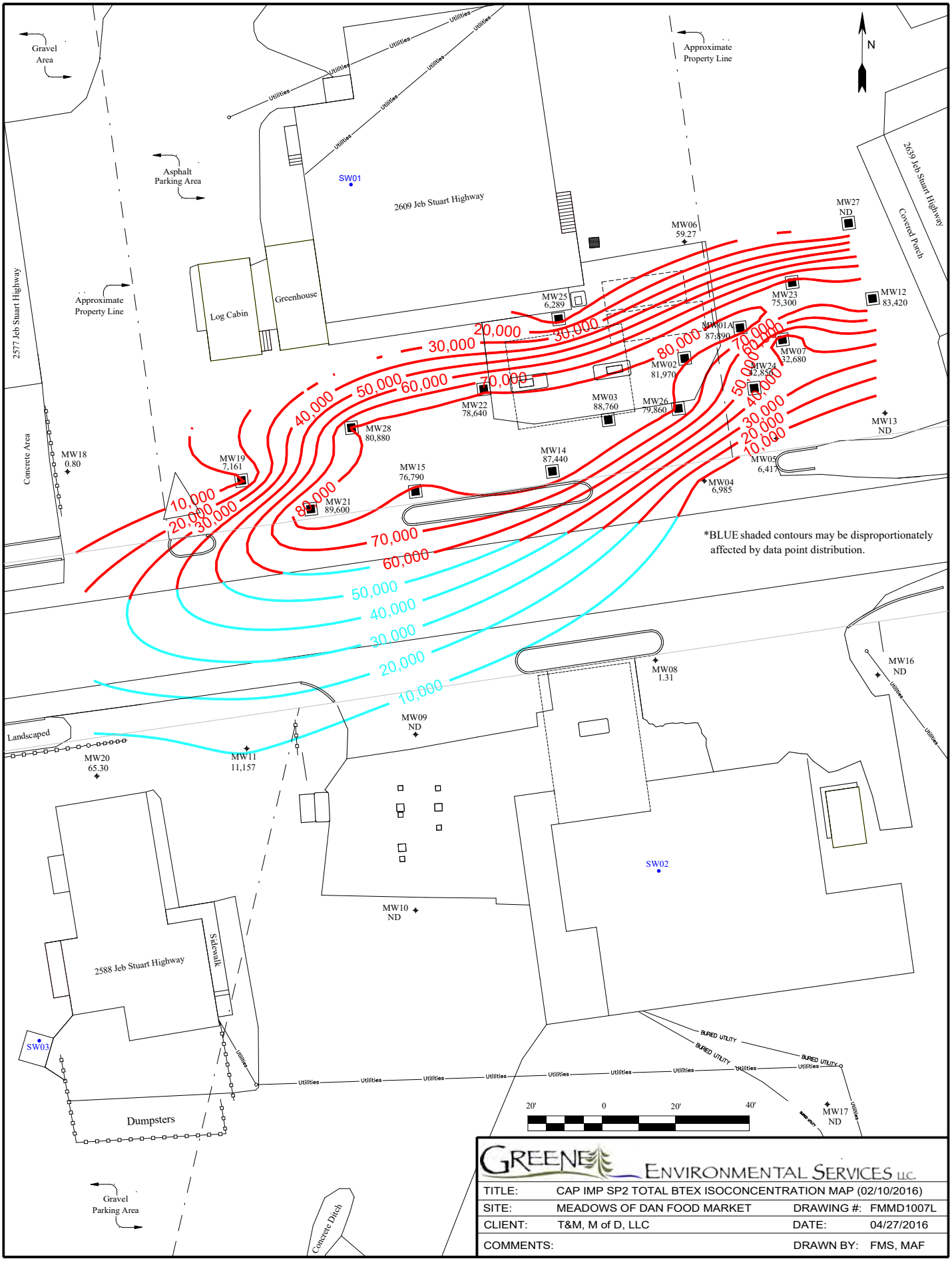
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 MTBE ISOCONCENTRATION MAP (02/10/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1004J
CLIENT:	T&M, M of D, LLC	DATE:	04/27/2016
COMMENTS:		DRAWN BY:	FMS, MAF



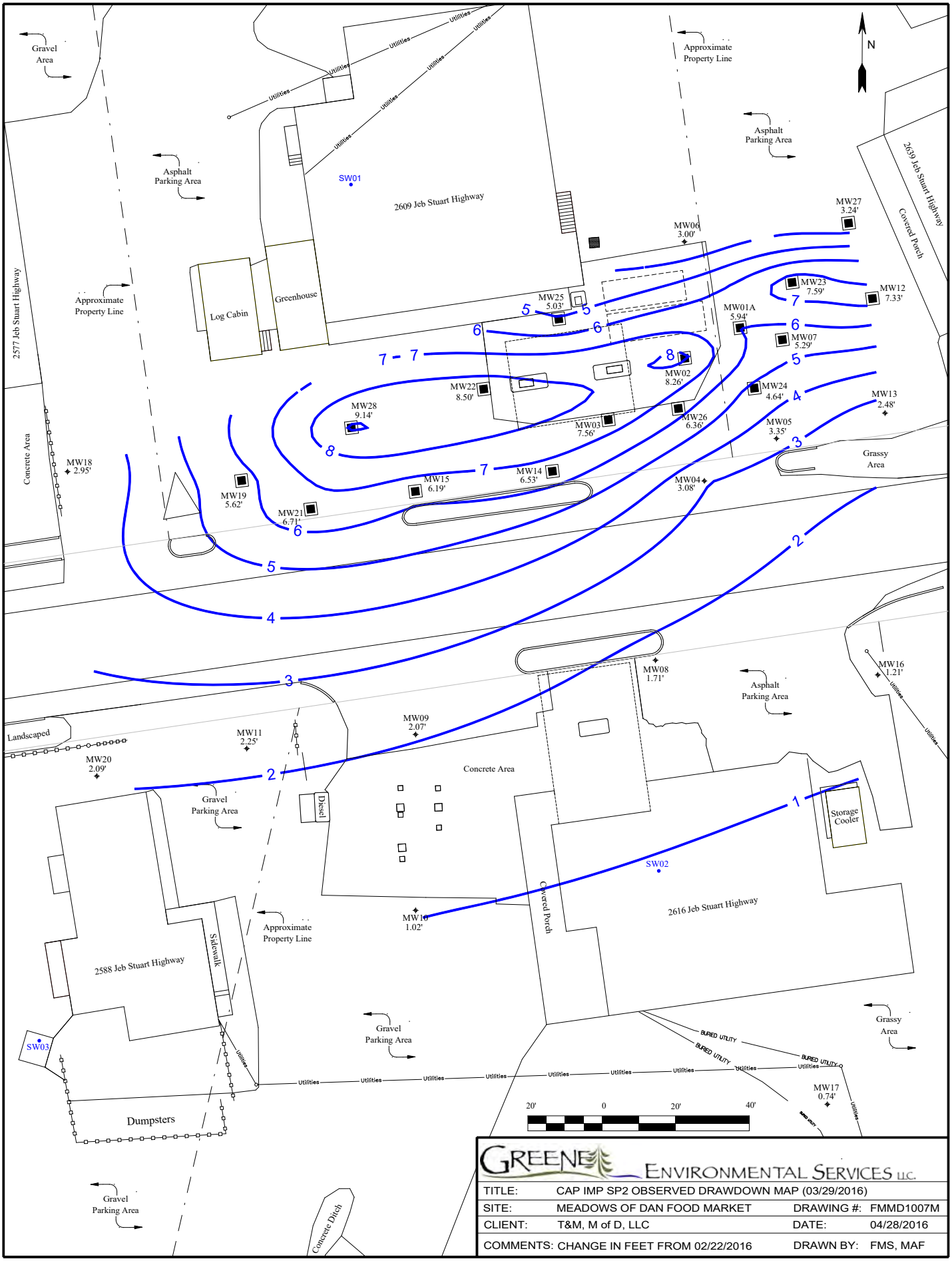
GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 NAPHTHALENE ISOCONCENTRATION MAP (02/10/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007K
CLIENT:	T&M, M of D, LLC	DATE:	04/27/2016
COMMENTS:		DRAWN BY:	FMS, MAF



GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 TOTAL BTEX ISOCONCENTRATION MAP (02/10/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007L
CLIENT:	T&M, M of D, LLC	DATE:	04/27/2016
COMMENTS:		DRAWN BY:	FMS, MAF


N
Gravel Area
Approximate Property Line
Asphalt Parking Area
2609 Jeb Stuart Highway
SW01
Log Cabin
Greenhouse
2577 Jeb Stuart Highway
2639 Jeb Stuart Highway
Covered Porch
Concrete Area
MW27 3.24'
MW06 3.00'
MW23 7.59'
MW12 7.33'
MW25 5.03'
MW01A 5.94'
MW07 5.29'
MW02 8.26'
MW22 8.50'
MW24 4.64'
MW13 2.48'
MW28 9.14'
MW03 7.56'
MW26 6.36'
MW05 3.35'
MW18 2.95'
MW19 5.62'
MW15 6.19'
MW14 6.53'
MW04 3.08'
MW21 6.71'
Grassy Area
MW08 1.71'
MW16 1.21'
Landscaped
MW11 2.25'
MW09 2.07'
MW20 2.09'
Concrete Area
Gravel Parking Area
Diesel
Storage Cooler
SW02
2616 Jeb Stuart Highway
MW10 1.02'
2588 Jeb Stuart Highway
Sidewalk
SW03
Dumpsters
BURIED UTILITY
Utilities
MW17 0.74'
20' 0 20' 40'
Concrete Ditch
GREENE ENVIRONMENTAL SERVICES LLC.
TITLE: CAP IMP SP2 OBSERVED DRAWDOWN MAP (03/29/2016)
SITE: MEADOWS OF DAN FOOD MARKET
DRAWING #: FMMD1007M
CLIENT: T&M, M of D, LLC
DATE: 04/28/2016
COMMENTS: CHANGE IN FEET FROM 02/22/2016
DRAWN BY: FMS, MAF

GREENE ENVIRONMENTAL SERVICES LLC.

TITLE:	CAP IMP SP2 RADIUS OF INFLUENCE MAP (03/29/2016)		
SITE:	MEADOWS OF DAN FOOD MARKET	DRAWING #:	FMMD1007N
CLIENT:	T&M, M of D, LLC	DATE:	04/28/2016
COMMENTS: INCHES of WATER COLUMN		DRAWN BY:	FMS, MAF

APPENDIX C

Laboratory Data

Laboratory Test Results
Chain of Custody Documentation

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reiclabs.com

Improving the environment, one client at a time...

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26501
TEL: 304.241.5861

Thursday, February 25, 2016

Mr. Trev Greene
GREENE ENVIRONMENTAL SERVICES, LLC
200 BUCKWHEAT LANE
ROCKY MOUNT, VA 24151

TEL: (540) 483-3311
FAX:

RE: MEADOES OF DAN FOOD MARKET - FMMD 1007

Work Order #: 1602J82

Dear Mr. Trev Greene:

REI Consultants, Inc. received 34 sample(s) on 2/16/2016 for the analyses presented in the following report.

Sincerely,

Billy Shirley

Project Manager

REI Consultants, Inc. - Case Narrative

WO#: 1602J82

Date Reported: 2/25/2016

Client: GREENE ENVIRONMENTAL SERVICES, LLC

Project: MEADOES OF DAN FOOD MARKET - FMMD 1007

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REIC.

DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: The sample result is within the method accepted Linear Dynamic Range determined by the lab for this analysis. However, it may be considered estimated when applying the TNI (The NELAC Institute) standard.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Roanoke, VA: VADCLS(VELAP) 460150
Verona, VA: VADCLS(VELAP) 460151
Ashland, KY: KYDEP 00094, WV 389
Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 3:30:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-01A	**Matrix:**	Liquid
Client Sample ID:	MW01A	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	47,800	25,000	50,000	NA	J	µg/L	02/18/16	02/18/16	PA/VA
Surr: 2,5-Dibromotoluene	49.6	NA	50.6-155	NA	S	%Rec	02/18/16	02/18/16	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	8,140	500	1,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Ethylbenzene	4,050	500	1,000	NA		µg/L	02/18/16	02/21/16	PA/VA
m,p-Xylene	14,700	1,000	2,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Methyl tert-butyl ether	14,400	2,500	5,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Naphthalene	415	50.0	100	NA		µg/L	02/18/16	02/20/16	PA/VA
o-Xylene	15,600	500	1,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Toluene	45,400	2,500	5,000	NA		µg/L	02/18/16	02/22/16	PA/VA
Surr: 1,2-Dichloroethane-d4	91.6	NA	75.9-132	NA		%Rec	02/18/16	02/20/16	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA		%Rec	02/18/16	02/20/16	
Surr: Dibromofluoromethane	89.9	NA	80.1-127	NA		%Rec	02/18/16	02/20/16	
Surr: Toluene-d8	95.4	NA	72.4-119	NA		%Rec	02/18/16	02/20/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 3:45:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-02A	**Matrix:**	Liquid
Client Sample ID:	MW02	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	44,400	25,000	50,000	NA	J	µg/L	02/18/16	02/19/16	PA/VA
Surr: 2,5-Dibromotoluene	54.3	NA	50.6-155	NA		%Rec	02/18/16	02/19/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	7,660	500	1,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Ethylbenzene	3,810	500	1,000	NA		µg/L	02/18/16	02/21/16	PA/VA
m,p-Xylene	13,600	1,000	2,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Methyl tert-butyl ether	17,700	2,500	5,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Naphthalene	413	50.0	100	NA		µg/L	02/18/16	02/20/16	PA/VA
o-Xylene	14,500	500	1,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Toluene	42,400	2,500	5,000	NA		µg/L	02/18/16	02/22/16	PA/VA
Surr: 1,2-Dichloroethane-d4	93.1	NA	75.9-132	NA		%Rec	02/18/16	02/20/16	
Surr: 4-Bromofluorobenzene	99.6	NA	73.6-132	NA		%Rec	02/18/16	02/20/16	
Surr: Dibromofluoromethane	89.5	NA	80.1-127	NA		%Rec	02/18/16	02/20/16	
Surr: Toluene-d8	94.8	NA	72.4-119	NA		%Rec	02/18/16	02/20/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 4:25:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-03A	**Matrix:**	Liquid
Client Sample ID:	MW03	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	124,000	25,000	50,000	NA		µg/L	02/18/16	02/19/16	PA/VA
Surr: 2,5-Dibromotoluene	46.1	NA	50.6-155	NA	S	%Rec	02/18/16	02/19/16	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	6,250	500	1,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Ethylbenzene	4,410	500	1,000	NA		µg/L	02/18/16	02/21/16	PA/VA
m,p-Xylene	16,700	1,000	2,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Methyl tert-butyl ether	6,620	250	500	NA		µg/L	02/18/16	02/20/16	PA/VA
Naphthalene	470	50.0	100	NA		µg/L	02/18/16	02/20/16	PA/VA
o-Xylene	17,800	500	1,000	NA		µg/L	02/18/16	02/21/16	PA/VA
Toluene	43,600	2,500	5,000	NA		µg/L	02/18/16	02/22/16	PA/VA
Surr: 1,2-Dichloroethane-d4	94.1	NA	75.9-132	NA		%Rec	02/18/16	02/20/16	
Surr: 4-Bromofluorobenzene	99.1	NA	73.6-132	NA		%Rec	02/18/16	02/20/16	
Surr: Dibromofluoromethane	88.8	NA	80.1-127	NA		%Rec	02/18/16	02/20/16	
Surr: Toluene-d8	95.4	NA	72.4-119	NA		%Rec	02/18/16	02/20/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 12:30:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-04A	**Matrix:**	Liquid
Client Sample ID:	MW04	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	13,200	250	500	NA	µg/L	02/18/16	02/18/16	PA/VA
Surr: 2,5-Dibromotoluene	68.0	NA	50.6-155	NA	%Rec	02/18/16	02/18/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: MD**	
Benzene	1,130	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
Ethylbenzene	439	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
m,p-Xylene	2,360	100	200	NA	µg/L	02/18/16	02/22/16	PA/VA
Methyl tert-butyl ether	2,830	250	500	NA	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	421	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	976	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
Toluene	2,080	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
Surr: 1,2-Dichloroethane-d4	92.7	NA	75.9-132	NA	%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	108	NA	73.6-132	NA	%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	95.7	NA	80.1-127	NA	%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	98.8	NA	72.4-119	NA	%Rec	02/18/16	02/22/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 12:10:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-05A	**Matrix:**	Liquid
Client Sample ID:	MW05	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	411	250	500	NA	J	µg/L	02/18/16	02/18/16	PA/VA
Surr: 2,5-Dibromotoluene	62.8	NA	50.6-155	NA		%Rec	02/18/16	02/18/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	1,130	50.0	100	NA		µg/L	02/18/16	02/18/16	PA/VA
Ethylbenzene	416	50.0	100	NA		µg/L	02/18/16	02/18/16	PA/VA
m,p-Xylene	2,100	100	200	NA		µg/L	02/18/16	02/18/16	PA/VA
Methyl tert-butyl ether	2,300	250	500	NA		µg/L	02/18/16	02/18/16	PA/VA
Naphthalene	69.0	50.0	100	NA	J	µg/L	02/18/16	02/20/16	PA/VA
o-Xylene	881	50.0	100	NA		µg/L	02/18/16	02/18/16	PA/VA
Toluene	1,890	50.0	100	NA		µg/L	02/18/16	02/18/16	PA/VA
Surr: 1,2-Dichloroethane-d4	113	NA	75.9-132	NA		%Rec	02/18/16	02/18/16	
Surr: 4-Bromofluorobenzene	97.3	NA	73.6-132	NA		%Rec	02/18/16	02/18/16	
Surr: Dibromofluoromethane	99.3	NA	80.1-127	NA		%Rec	02/18/16	02/18/16	
Surr: Toluene-d8	92.9	NA	72.4-119	NA		%Rec	02/18/16	02/18/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 11:30:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-06A	**Matrix:**	Liquid
Client Sample ID:	MW06	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	476	250	500	NA	J	µg/L	02/18/16	02/18/16	PA/VA
Surr: 2,5-Dibromotoluene	59.2	NA	50.6-155	NA		%Rec	02/18/16	02/18/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: MD**	
Benzene	16.4	5.00	10.0	NA		µg/L	02/18/16	02/20/16	PA/VA
Ethylbenzene	1.02	0.500	1.00	NA		µg/L	02/18/16	02/22/16	PA/VA
m,p-Xylene	3.56	1.00	2.00	NA		µg/L	02/18/16	02/22/16	PA/VA
Methyl tert-butyl ether	ND	2.50	5.00	NA		µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	ND	0.500	1.00	NA		µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	3.79	0.500	1.00	NA		µg/L	02/18/16	02/22/16	PA/VA
Toluene	34.5	5.00	10.0	NA		µg/L	02/18/16	02/20/16	PA/VA
Surr: 1,2-Dichloroethane-d4	91.0	NA	75.9-132	NA		%Rec	02/18/16	02/20/16	
Surr: 4-Bromofluorobenzene	100	NA	73.6-132	NA		%Rec	02/18/16	02/20/16	
Surr: Dibromofluoromethane	91.5	NA	80.1-127	NA		%Rec	02/18/16	02/20/16	
Surr: Toluene-d8	98.6	NA	72.4-119	NA		%Rec	02/18/16	02/20/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 2:05:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-07A	**Matrix:**	Liquid
Client Sample ID:	MW07	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	55,600	12,500	25,000	NA	µg/L	02/18/16	02/20/16	PA/VA
Surr: 2,5-Dibromotoluene	62.7	NA	50.6-155	NA	%Rec	02/18/16	02/20/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: CB**	
Benzene	3,320	500	1,000	NA	µg/L	02/18/16	02/24/16	PA/VA
Ethylbenzene	1,530	500	1,000	NA	µg/L	02/18/16	02/24/16	PA/VA
m,p-Xylene	5,820	1,000	2,000	NA	µg/L	02/18/16	02/24/16	PA/VA
Methyl tert-butyl ether	10,600	2,500	5,000	NA	µg/L	02/18/16	02/24/16	PA/VA
Naphthalene	158	5.00	10.0	NA	µg/L	02/18/16	02/23/16	PA/VA
o-Xylene	6,210	500	1,000	NA	µg/L	02/18/16	02/24/16	PA/VA
Toluene	15,800	500	1,000	NA	µg/L	02/18/16	02/24/16	PA/VA
Surr: 1,2-Dichloroethane-d4	128	NA	75.9-132	NA	%Rec	02/18/16	02/23/16	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec	02/18/16	02/23/16	
Surr: Dibromofluoromethane	104	NA	80.1-127	NA	%Rec	02/18/16	02/23/16	
Surr: Toluene-d8	94.1	NA	72.4-119	NA	%Rec	02/18/16	02/23/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 9:45:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-08A	**Matrix:**	Liquid
Client Sample ID:	MW08	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	ND	250	500	NA	µg/L	02/18/16	02/19/16	PA/VA
Surr: 2,5-Dibromotoluene	63.7	NA	50.6-155	NA	%Rec	02/18/16	02/19/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L	02/18/16	02/22/16	PA/VA
Methyl tert-butyl ether	ND	2.50	5.00	NA	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
Toluene	1.31	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
Surr: 1,2-Dichloroethane-d4	108	NA	75.9-132	NA	%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	102	NA	73.6-132	NA	%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	108	NA	80.1-127	NA	%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	94.9	NA	72.4-119	NA	%Rec	02/18/16	02/22/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 10:05:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-09A	**Matrix:**	Liquid
Client Sample ID:	MW09	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	ND	250	500	NA		µg/L	02/18/16	02/18/16	PA/VA
Surr: 2,5-Dibromotoluene	58.7	NA	50.6-155	NA		%Rec	02/18/16	02/18/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	0.500	1.00	NA		µg/L	02/18/16	02/22/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	02/18/16	02/22/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	02/18/16	02/22/16	PA/VA
Methyl tert-butyl ether	3.44	2.50	5.00	NA	J	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	ND	0.500	1.00	NA		µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	ND	0.500	1.00	NA		µg/L	02/18/16	02/22/16	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	02/18/16	02/22/16	PA/VA
Surr: 1,2-Dichloroethane-d4	97.3	NA	75.9-132	NA		%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	97.7	NA	73.6-132	NA		%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	97.6	NA	80.1-127	NA		%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	95.8	NA	72.4-119	NA		%Rec	02/18/16	02/22/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 10:20:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-10A	**Matrix:**	Liquid
Client Sample ID:	MW10	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	ND	250	500	NA	µg/L	02/18/16	02/18/16	PA/VA
Surr: 2,5-Dibromotoluene	68.5	NA	50.6-155	NA	%Rec	02/18/16	02/18/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L	02/18/16	02/22/16	PA/VA
Methyl tert-butyl ether	188	25.0	50.0	NA	µg/L	02/18/16	02/23/16	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L	02/18/16	02/22/16	PA/VA
Surr: 1,2-Dichloroethane-d4	97.5	NA	75.9-132	NA	%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	97.8	NA	73.6-132	NA	%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	98.8	NA	80.1-127	NA	%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	96.7	NA	72.4-119	NA	%Rec	02/18/16	02/22/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 10:35:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-11A	**Matrix:**	Liquid
Client Sample ID:	MW11	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	17,700	250	500	NA	µg/L	02/18/16	02/18/16	PA/VA
Surr: 2,5-Dibromotoluene	74.0	NA	50.6-155	NA	%Rec	02/18/16	02/18/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: MD**	
Benzene	1,170	50.0	100	NA	µg/L	02/18/16	02/20/16	PA/VA
Ethylbenzene	757	50.0	100	NA	µg/L	02/18/16	02/20/16	PA/VA
m,p-Xylene	2,930	100	200	NA	µg/L	02/18/16	02/20/16	PA/VA
Methyl tert-butyl ether	ND	250	500	NA	µg/L	02/18/16	02/20/16	PA/VA
Naphthalene	ND	50.0	100	NA	µg/L	02/18/16	02/20/16	PA/VA
o-Xylene	1,340	50.0	100	NA	µg/L	02/18/16	02/20/16	PA/VA
Toluene	4,960	500	1,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	94.3	NA	75.9-132	NA	%Rec	02/18/16	02/20/16	
Surr: 4-Bromofluorobenzene	99.5	NA	73.6-132	NA	%Rec	02/18/16	02/20/16	
Surr: Dibromofluoromethane	95.9	NA	80.1-127	NA	%Rec	02/18/16	02/20/16	
Surr: Toluene-d8	97.3	NA	72.4-119	NA	%Rec	02/18/16	02/20/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 2:35:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-12A	**Matrix:**	Liquid
Client Sample ID:	MW12	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	96,800	12,500	25,000	NA		µg/L	02/18/16	02/18/16	PA/VA
Surr: 2,5-Dibromotoluene	48.1	NA	50.6-155	NA	S	%Rec	02/18/16	02/18/16	

Notes:

The surrogate recovery is outside laboratory control limits due to matrix interference.

VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	6,760	1,000	2,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	4,460	1,000	2,000	NA		µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	17,300	2,000	4,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	1,380	250	500	NA		µg/L	02/18/16	02/20/16	PA/VA
Naphthalene	678	50.0	100	NA		µg/L	02/18/16	02/20/16	PA/VA
o-Xylene	18,400	1,000	2,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Toluene	36,500	1,000	2,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	110	NA	75.9-132	NA		%Rec	02/18/16	02/23/16	
Surr: 4-Bromofluorobenzene	96.0	NA	73.6-132	NA		%Rec	02/18/16	02/23/16	
Surr: Dibromofluoromethane	104	NA	80.1-127	NA		%Rec	02/18/16	02/23/16	
Surr: Toluene-d8	91.9	NA	72.4-119	NA		%Rec	02/18/16	02/23/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 11:50:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-13A	**Matrix:**	Liquid
Client Sample ID:	MW13	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	ND	250	500	NA	µg/L	02/18/16	02/18/16	PA/VA
Surr: 2,5-Dibromotoluene	60.2	NA	50.6-155	NA	%Rec	02/18/16	02/18/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: CB**	
Benzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	16.1	2.50	5.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	128	NA	75.9-132	NA	%Rec	02/18/16	02/23/16	
Surr: 4-Bromofluorobenzene	107	NA	73.6-132	NA	%Rec	02/18/16	02/23/16	
Surr: Dibromofluoromethane	101	NA	80.1-127	NA	%Rec	02/18/16	02/23/16	
Surr: Toluene-d8	93.4	NA	72.4-119	NA	%Rec	02/18/16	02/23/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 4:45:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-14A	**Matrix:**	Liquid
Client Sample ID:	MW14	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	92,800	12,500	25,000	NA	µg/L	02/18/16	02/20/16	PA/VA
Surr: 2,5-Dibromotoluene	69.9	NA	50.6-155	NA	%Rec	02/18/16	02/20/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: CB**	
Benzene	5,920	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	4,520	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	19,100	2,000	4,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	2,930	250	500	NA	µg/L	02/18/16	02/21/16	PA/VA
Naphthalene	1,530	50.0	100	NA	µg/L	02/18/16	02/21/16	PA/VA
o-Xylene	20,300	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Toluene	37,600	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	126	NA	75.9-132	NA	%Rec	02/18/16	02/23/16	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec	02/18/16	02/23/16	
Surr: Dibromofluoromethane	100	NA	80.1-127	NA	%Rec	02/18/16	02/23/16	
Surr: Toluene-d8	91.5	NA	72.4-119	NA	%Rec	02/18/16	02/23/16	

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 5:30:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-15A	**Matrix:**	Liquid
Client Sample ID:	MW15	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	82,600	12,500	25,000	NA		µg/L	02/18/16	02/20/16	PA/VA
Surr: 2,5-Dibromotoluene	66.9	NA	50.6-155	NA		%Rec	02/18/16	02/20/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	7,250	500	1,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	4,040	500	1,000	NA		µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	15,100	1,000	2,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	973	25.0	50.0	NA		µg/L	02/18/16	02/21/16	PA/VA
Naphthalene	ND	500	1,000	NA		µg/L	02/18/16	02/23/16	PA/VA
o-Xylene	16,100	500	1,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Toluene	34,300	500	1,000	NA	E	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	118	NA	75.9-132	NA		%Rec	02/18/16	02/23/16	
Surr: 4-Bromofluorobenzene	94.7	NA	73.6-132	NA		%Rec	02/18/16	02/23/16	
Surr: Dibromofluoromethane	87.5	NA	80.1-127	NA		%Rec	02/18/16	02/23/16	
Surr: Toluene-d8	76.6	NA	72.4-119	NA		%Rec	02/18/16	02/23/16	

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 9:25:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-16A	**Matrix:**	Liquid
Client Sample ID:	MW16	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	ND	250	500	NA	µg/L	02/18/16	02/19/16	PA/VA
Surr: 2,5-Dibromotoluene	63.0	NA	50.6-155	NA	%Rec	02/18/16	02/19/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: CB**	
Benzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	10.9	2.50	5.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	122	NA	75.9-132	NA	%Rec	02/18/16	02/23/16	
Surr: 4-Bromofluorobenzene	104	NA	73.6-132	NA	%Rec	02/18/16	02/23/16	
Surr: Dibromofluoromethane	93.9	NA	80.1-127	NA	%Rec	02/18/16	02/23/16	
Surr: Toluene-d8	92.8	NA	72.4-119	NA	%Rec	02/18/16	02/23/16	

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 8:40:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-17A	**Matrix:**	Liquid
Client Sample ID:	MW17	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	ND	250	500	NA	µg/L	02/18/16	02/19/16	PA/VA
Surr: 2,5-Dibromotoluene	59.4	NA	50.6-155	NA	%Rec	02/18/16	02/19/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: JM**	
Benzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/21/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L	02/18/16	02/21/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L	02/18/16	02/21/16	PA/VA
Methyl tert-butyl ether	ND	2.50	5.00	NA	µg/L	02/18/16	02/21/16	PA/VA
Naphthalene	ND	0.500	1.00	NA	µg/L	02/18/16	02/21/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L	02/18/16	02/21/16	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L	02/18/16	02/21/16	PA/VA
Surr: 1,2-Dichloroethane-d4	101	NA	75.9-132	NA	%Rec	02/18/16	02/21/16	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec	02/18/16	02/21/16	
Surr: Dibromofluoromethane	97.8	NA	80.1-127	NA	%Rec	02/18/16	02/21/16	
Surr: Toluene-d8	94.8	NA	72.4-119	NA	%Rec	02/18/16	02/21/16	

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 11:05:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-18A	**Matrix:**	Liquid
Client Sample ID:	MW18	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	ND	250	500	NA		µg/L	02/18/16	02/19/16	PA/VA
Surr: 2,5-Dibromotoluene	54.5	NA	50.6-155	NA		%Rec	02/18/16	02/19/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	ND	0.500	1.00	NA		µg/L	02/18/16	02/20/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA		µg/L	02/18/16	02/20/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA		µg/L	02/18/16	02/20/16	PA/VA
Methyl tert-butyl ether	ND	2.50	5.00	NA		µg/L	02/18/16	02/20/16	PA/VA
Naphthalene	ND	0.500	1.00	NA		µg/L	02/18/16	02/20/16	PA/VA
o-Xylene	0.800	0.500	1.00	NA	J	µg/L	02/18/16	02/20/16	PA/VA
Toluene	ND	0.500	1.00	NA		µg/L	02/18/16	02/20/16	PA/VA
Surr: 1,2-Dichloroethane-d4	98.0	NA	75.9-132	NA		%Rec	02/18/16	02/20/16	
Surr: 4-Bromofluorobenzene	99.3	NA	73.6-132	NA		%Rec	02/18/16	02/20/16	
Surr: Dibromofluoromethane	96.6	NA	80.1-127	NA		%Rec	02/18/16	02/20/16	
Surr: Toluene-d8	97.8	NA	72.4-119	NA		%Rec	02/18/16	02/20/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 3:10:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-19A	**Matrix:**	Liquid
Client Sample ID:	MW19	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	14,600	250	500	NA	µg/L	02/18/16	02/19/16	PA/VA
Surr: 2,5-Dibromotoluene	75.4	NA	50.6-155	NA	%Rec	02/18/16	02/19/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: MD**	
Benzene	201	5.00	10.0	NA	µg/L	02/18/16	02/22/16	PA/VA
Ethylbenzene	530	100	200	NA	µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	2,180	200	400	NA	µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	ND	25.0	50.0	NA	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	66.6	5.00	10.0	NA	µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	2,320	100	200	NA	µg/L	02/18/16	02/23/16	PA/VA
Toluene	1,930	100	200	NA	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	93.3	NA	75.9-132	NA	%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	97.2	NA	73.6-132	NA	%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	93.5	NA	80.1-127	NA	%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	98.5	NA	72.4-119	NA	%Rec	02/18/16	02/22/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 10:50:00 AM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-20A	**Matrix:**	Liquid
Client Sample ID:	MW20	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	310	250	500	NA	J	µg/L	02/18/16	02/21/16	PA/VA
Surr: 2,5-Dibromotoluene	87.6	NA	50.6-155	NA		%Rec	02/18/16	02/21/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: CB**	
Benzene	16.6	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	ND	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	14.0	5.00	10.0	NA		µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	ND	12.5	25.0	NA		µg/L	02/18/16	02/23/16	PA/VA
Naphthalene	ND	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
o-Xylene	15.0	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
Toluene	19.7	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	132	NA	75.9-132	NA		%Rec	02/18/16	02/23/16	
Surr: 4-Bromofluorobenzene	105	NA	73.6-132	NA		%Rec	02/18/16	02/23/16	
Surr: Dibromofluoromethane	101	NA	80.1-127	NA		%Rec	02/18/16	02/23/16	
Surr: Toluene-d8	92.3	NA	72.4-119	NA		%Rec	02/18/16	02/23/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 5:05:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-21A	**Matrix:**	Liquid
Client Sample ID:	MW21	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	85,900	6,250	12,500	NA	µg/L	02/18/16	02/21/16	PA/VA
Surr: 2,5-Dibromotoluene	104	NA	50.6-155	NA	%Rec	02/18/16	02/21/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: CB**	
Benzene	7,760	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	4,240	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	16,200	2,000	4,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	1,260	250	500	NA	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	540	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	17,200	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Toluene	44,200	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	118	NA	75.9-132	NA	%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	97.4	NA	73.6-132	NA	%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	106	NA	80.1-127	NA	%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	93.0	NA	72.4-119	NA	%Rec	02/18/16	02/22/16	

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 4:55:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-22A	**Matrix:**	Liquid
Client Sample ID:	MW22	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	80,400	12,500	25,000	NA	µg/L	02/18/16	02/20/16	PA/VA
Surr: 2,5-Dibromotoluene	61.3	NA	50.6-155	NA	%Rec	02/18/16	02/20/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: CB**	
Benzene	5,890	500	1,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	4,250	500	1,000	NA	µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	16,300	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	4,330	250	500	NA	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	887	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	17,400	500	1,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Toluene	34,800	1,000	2,000	NA	µg/L	02/18/16	02/24/16	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	75.9-132	NA	%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	97.0	NA	73.6-132	NA	%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	106	NA	80.1-127	NA	%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	92.8	NA	72.4-119	NA	%Rec	02/18/16	02/22/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 3:15:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-23A	**Matrix:**	Liquid
Client Sample ID:	MW23	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	75,800	6,250	12,500	NA	µg/L	02/18/16	02/21/16	PA/VA
Surr: 2,5-Dibromotoluene	106	NA	50.6-155	NA	%Rec	02/18/16	02/21/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: CB**	
Benzene	5,160	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	4,040	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	14,800	2,000	4,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	6,140	250	500	NA	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	717	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	15,700	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Toluene	35,600	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	75.9-132	NA	%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	97.7	NA	73.6-132	NA	%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	104	NA	80.1-127	NA	%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	94.1	NA	72.4-119	NA	%Rec	02/18/16	02/22/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 4:00:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-24A	**Matrix:**	Liquid
Client Sample ID:	MW24	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	46,600	25,000	50,000	NA	J	µg/L	02/18/16	02/20/16	PA/VA
Surr: 2,5-Dibromotoluene	53.4	NA	50.6-155	NA		%Rec	02/18/16	02/20/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	656	50.0	100	NA		µg/L	02/18/16	02/22/16	PA/VA
Ethylbenzene	3,000	500	1,000	NA		µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	12,400	1,000	2,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	3,750	250	500	NA		µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	661	50.0	100	NA		µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	13,200	500	1,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Toluene	13,600	500	1,000	NA		µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	75.9-132	NA		%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	95.2	NA	73.6-132	NA		%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	104	NA	80.1-127	NA		%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	94.6	NA	72.4-119	NA		%Rec	02/18/16	02/22/16	

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 2:30:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-25A	**Matrix:**	Liquid
Client Sample ID:	MW25	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	11,100	250	500	NA		µg/L	02/18/16	02/21/16	PA/VA
Surr: 2,5-Dibromotoluene	112	NA	50.6-155	NA		%Rec	02/18/16	02/21/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: JM**	
Benzene	94.0	50.0	100	NA	J	µg/L	02/18/16	02/22/16	PA/VA
Ethylbenzene	465	50.0	100	NA		µg/L	02/18/16	02/22/16	PA/VA
m,p-Xylene	1,920	100	200	NA		µg/L	02/18/16	02/22/16	PA/VA
Methyl tert-butyl ether	411	250	500	NA	J	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	289	50.0	100	NA		µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	2,040	50.0	100	NA		µg/L	02/18/16	02/22/16	PA/VA
Toluene	1,770	50.0	100	NA		µg/L	02/18/16	02/22/16	PA/VA
Surr: 1,2-Dichloroethane-d4	112	NA	75.9-132	NA		%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	97.2	NA	73.6-132	NA		%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	103	NA	80.1-127	NA		%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	94.8	NA	72.4-119	NA		%Rec	02/18/16	02/22/16	

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 4:35:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-26A	**Matrix:**	Liquid
Client Sample ID:	MW26	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	92,800	6,250	12,500	NA	µg/L	02/18/16	02/21/16	PA/VA
Surr: 2,5-Dibromotoluene	104	NA	50.6-155	NA	%Rec	02/18/16	02/21/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: CB**	
Benzene	7,080	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	3,880	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	16,100	2,000	4,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	6,900	250	500	NA	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	758	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	17,100	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Toluene	35,700	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	113	NA	75.9-132	NA	%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	97.7	NA	73.6-132	NA	%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	104	NA	80.1-127	NA	%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	93.0	NA	72.4-119	NA	%Rec	02/18/16	02/22/16	

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 1:35:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-27A	**Matrix:**	Liquid
Client Sample ID:	MW27	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**				**Analyst: DB**	
TPH (Gasoline Range)	ND	250	500	NA		µg/L	02/18/16	02/21/16	PA/VA
Surr: 2,5-Dibromotoluene	87.3	NA	50.6-155	NA		%Rec	02/18/16	02/21/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**				**Analyst: CB**	
Benzene	ND	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	ND	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	ND	5.00	10.0	NA		µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	ND	12.5	25.0	NA		µg/L	02/18/16	02/23/16	PA/VA
Naphthalene	ND	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
o-Xylene	ND	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
Toluene	ND	2.50	5.00	NA		µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	134	NA	75.9-132	NA	S	%Rec	02/18/16	02/23/16	
Surr: 4-Bromofluorobenzene	100	NA	73.6-132	NA		%Rec	02/18/16	02/23/16	
Surr: Dibromofluoromethane	104	NA	80.1-127	NA		%Rec	02/18/16	02/23/16	
Surr: Toluene-d8	93.3	NA	72.4-119	NA		%Rec	02/18/16	02/23/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/10/2016 5:20:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-28A	**Matrix:**	Liquid
Client Sample ID:	MW28	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE RANGE ORGANICS				**Method: SW8015C**			**Analyst: DB**	
TPH (Gasoline Range)	69,800	12,500	25,000	NA	µg/L	02/18/16	02/20/16	PA/VA
Surr: 2,5-Dibromotoluene	51.9	NA	50.6-155	NA	%Rec	02/18/16	02/20/16	
VOLATILE ORGANIC COMPOUNDS				**Method: SW8260B**			**Analyst: CB**	
Benzene	4,360	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Ethylbenzene	4,520	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
m,p-Xylene	16,600	2,000	4,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Methyl tert-butyl ether	ND	250	500	NA	µg/L	02/18/16	02/22/16	PA/VA
Naphthalene	798	50.0	100	NA	µg/L	02/18/16	02/22/16	PA/VA
o-Xylene	17,700	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Toluene	37,700	1,000	2,000	NA	µg/L	02/18/16	02/23/16	PA/VA
Surr: 1,2-Dichloroethane-d4	116	NA	75.9-132	NA	%Rec	02/18/16	02/22/16	
Surr: 4-Bromofluorobenzene	96.7	NA	73.6-132	NA	%Rec	02/18/16	02/22/16	
Surr: Dibromofluoromethane	103	NA	80.1-127	NA	%Rec	02/18/16	02/22/16	
Surr: Toluene-d8	93.9	NA	72.4-119	NA	%Rec	02/18/16	02/22/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 2:40:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-29A	**Matrix:**	Liquid
Client Sample ID:	DW01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: MD**	
Acetone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
MEK	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		02/19/16	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
DBCP	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 2:40:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-29A	**Matrix:**	Liquid
Client Sample ID:	DW01	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
p-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
MTBE	ND	2.50	5.00	NA	µg/L		02/19/16	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		02/19/16	PA/VA
Surr: 1,2-Dichloroethane-d4	92.7	NA	75.9-132	NA	%Rec		02/19/16	
Surr: 4-Bromofluorobenzene	99.0	NA	73.6-132	NA	%Rec		02/19/16	
Surr: Dibromofluoromethane	95.4	NA	80.1-127	NA	%Rec		02/19/16	
Surr: Toluene-d8	97.9	NA	72.4-119	NA	%Rec		02/19/16	

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WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 2:00:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-30A	**Matrix:**	Liquid
Client Sample ID:	DW07	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: MD**	
Acetone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
MEK	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		02/19/16	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
DBCP	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 2:00:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-30A	**Matrix:**	Liquid
Client Sample ID:	DW07	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
p-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
MTBE	ND	2.50	5.00	NA	µg/L		02/19/16	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		02/19/16	PA/VA
Surr: 1,2-Dichloroethane-d4	97.7	NA	75.9-132	NA	%Rec		02/19/16	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		02/19/16	
Surr: Dibromofluoromethane	95.6	NA	80.1-127	NA	%Rec		02/19/16	
Surr: Toluene-d8	96.8	NA	72.4-119	NA	%Rec		02/19/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 3:45:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-31A	**Matrix:**	Liquid
Client Sample ID:	DW13	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**				**Analyst: MD**	
Acetone	ND	5.00	10.0	NA		µg/L		02/19/16	PA/VA
Acrolein	ND	5.00	10.0	NA		µg/L		02/19/16	PA/VA
Acrylonitrile	ND	5.00	10.0	NA		µg/L		02/19/16	PA/VA
Benzene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Bromobenzene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Bromochloromethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Bromoform	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Bromomethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
MEK	ND	5.00	10.0	NA		µg/L		02/19/16	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Carbon disulfide	ND	2.50	5.00	NA		µg/L		02/19/16	
Carbon tetrachloride	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Chlorobenzene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Chloroethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Chloroform	0.620	0.500	1.00	NA	J	µg/L		02/19/16	PA/VA
Chloromethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
DBCP	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Dibromomethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA		µg/L		02/19/16	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 3:45:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-31A	**Matrix:**	Liquid
Client Sample ID:	DW13	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
p-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
MTBE	ND	2.50	5.00	NA	µg/L		02/19/16	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		02/19/16	PA/VA
Surr: 1,2-Dichloroethane-d4	96.4	NA	75.9-132	NA	%Rec		02/19/16	
Surr: 4-Bromofluorobenzene	100	NA	73.6-132	NA	%Rec		02/19/16	
Surr: Dibromofluoromethane	97.9	NA	80.1-127	NA	%Rec		02/19/16	
Surr: Toluene-d8	97.1	NA	72.4-119	NA	%Rec		02/19/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 3:00:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-32A	**Matrix:**	Liquid
Client Sample ID:	DW14	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: MD**	
Acetone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
MEK	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		02/19/16	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
DBCP	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 3:00:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-32A	**Matrix:**	Liquid
Client Sample ID:	DW14	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
p-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
MTBE	ND	2.50	5.00	NA	µg/L		02/19/16	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		02/19/16	PA/VA
Surr: 1,2-Dichloroethane-d4	91.5	NA	75.9-132	NA	%Rec		02/19/16	
Surr: 4-Bromofluorobenzene	99.6	NA	73.6-132	NA	%Rec		02/19/16	
Surr: Dibromofluoromethane	95.8	NA	80.1-127	NA	%Rec		02/19/16	
Surr: Toluene-d8	96.9	NA	72.4-119	NA	%Rec		02/19/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 12:15:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-33A	**Matrix:**	Liquid
Client Sample ID:	DW19	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: MD**	
Acetone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
MEK	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		02/19/16	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
DBCP	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 12:15:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-33A	**Matrix:**	Liquid
Client Sample ID:	DW19	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
p-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
MTBE	ND	2.50	5.00	NA	µg/L		02/19/16	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Toluene	3.87	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		02/19/16	PA/VA
Surr: 1,2-Dichloroethane-d4	93.7	NA	75.9-132	NA	%Rec		02/19/16	
Surr: 4-Bromofluorobenzene	100	NA	73.6-132	NA	%Rec		02/19/16	
Surr: Dibromofluoromethane	95.7	NA	80.1-127	NA	%Rec		02/19/16	
Surr: Toluene-d8	97.4	NA	72.4-119	NA	%Rec		02/19/16	

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 4:05:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-34A	**Matrix:**	Liquid
Client Sample ID:	DW21	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
VOLATILE ORGANIC COMPOUNDS-8260				**Method: SW8260B**			**Analyst: MD**	
Acetone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrolein	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Acrylonitrile	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Benzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromodichloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromoform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Bromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
MEK	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
n-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
sec-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
tert-Butylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Carbon disulfide	ND	2.50	5.00	NA	µg/L		02/19/16	
Carbon tetrachloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloroform	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Chloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Chlorotoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromochloromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
DBCP	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dibromoethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dibromomethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,4-Dichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Dichlorodifluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
trans-1,2-Dichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2,2-Dichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
cis-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA

REI Consultants, Inc. - Analytical Report

WO#: 1602J82

Date Reported: 2/25/2016

Client:	GREENE ENVIRONMENTAL SERVICES, LLC	**Collection Date:**	2/11/2016 4:05:00 PM
Project:	MEADOES OF DAN FOOD MARKET - FMMD 1007	**Date Received:**	2/16/2016
Lab ID:	1602J82-34A	**Matrix:**	Liquid
Client Sample ID:	DW21	**Site ID:**	VIRGINIA

Analysis	Result	MDL	PQL	MCL Qual	Units	Prep Date	Date Analyzed	NELAC
trans-1,3-Dichloropropene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Ethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Hexachlorobutadiene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
2-Hexanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Iodomethane	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Isopropylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
p-Isopropyltoluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Methylene chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
4-Methyl-2-pentanone	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
MTBE	ND	2.50	5.00	NA	µg/L		02/19/16	PA/VA
n-Propylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Styrene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Tetrachloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Toluene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trichlorobenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,1-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,1,2-Trichloroethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichloroethene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Trichlorofluoromethane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,3-Trichloropropane	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,2,4-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
1,3,5-Trimethylbenzene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
Vinyl acetate	ND	5.00	10.0	NA	µg/L		02/19/16	PA/VA
Vinyl chloride	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
o-Xylene	ND	0.500	1.00	NA	µg/L		02/19/16	PA/VA
m,p-Xylene	ND	1.00	2.00	NA	µg/L		02/19/16	PA/VA
Surr: 1,2-Dichloroethane-d4	97.1	NA	75.9-132	NA	%Rec		02/19/16	
Surr: 4-Bromofluorobenzene	101	NA	73.6-132	NA	%Rec		02/19/16	
Surr: Dibromofluoromethane	94.7	NA	80.1-127	NA	%Rec		02/19/16	
Surr: Toluene-d8	96.0	NA	72.4-119	NA	%Rec		02/19/16	

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304)255-2500
Website: www.reiclabs.com

Improving the environment, one client at a time...

Sample Receipt Checklist

Client Name:	**GRE096**			Work Order Number:	**1602J82**
RCPNo:	**1**	Date and Time Received:	**2/16/2016 9:10:00 PM**	Received by:	**Brandon Knight**
Completed By:	**Whitney Williams**		Reviewed By:	**Billy Shirley**	
Completed Date:	**2/17/2016 10:21:21 AM**		Reviewed Date:	**2/17/2016 5:11 PM**	

Carrier Name: REIC

1.	Chain of custody present?	Yes [x]	No [ ]	
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]	
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]	
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]	
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]	
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]
8.	Sample containers intact?	Yes [x]	No [ ]	
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]	
10.	Were container labels complete?	Yes [x]	No [ ]	
11.	All samples received within holding time?	Yes [x]	No [ ]	
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 1.6 ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [x]	No [ ]	No Vials [ ]
15.	Are Samples considered acceptable?	Yes [x]	No [ ]	
16.	COC filled out properly?	Yes [x]	No [ ]	

Client Notification/Response

Client Name: **GRE096** Work Order Number: **1602J82**

Comment:

Client Contacted: Yes [ ] No [ ] NA [x] Person Contacted:

Contact Mode: Phone [ ] Fax: [ ] Email: [ ] In Person: [ ]

Date Contacted: Contacted By:

Regarding:

Client Instructions:

Corrective Action:

CHAIN OF CUSTODY RECORD

v10-0114

REIC use ONLY — CLIENT ID _____ DATE _____ SHEET ____

REIC
Research Environmental & Industrial Consultants, Inc.
MAIN LABORATORY & CORPORATE HEADQUARTERS:
P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813
800-999-0105 • 304-255-2500 • www.reiclabs.com

MID-OHIO VALLEY Service Center
101 17th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH Service Center
1557 Commerce Rd., Ste 201
Verona, VA 24482
540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

Client: Greene Environmental Services — PO # _____
Contact Person: Trev Greene — Phone: (540) 483-3311
Address: 129 Bunny Ridge Lane — City: Rocky Mount — State: VA — Zip: 24151
Billing Address (if different): 200 Buckwheat Lane
City: Rocky Mount — State: VA — Zip: 24151
Site ID & State: Virginia — Project ID: Meadows of Dan Food Market - FMMD1007 — Sampler: CH

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL — RUSH TURNAROUND*: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: TPH-GRO; BTEX, MTBE, Naphthalene

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1 (10)	1 (10)							
MW01A	4 voa	02/10/16 @1530	Water	Grab	X	X							
MW02	4 voa	02/10/16 @1545	Water	Grab	X	X							
MW03	4 voa	02/10/16 @1625	Water	Grab	X	X							
MW04	4 voa	02/11/16 @1230	Water	Grab	X	X							
MW05	4 voa	02/11/16 @1210	Water	Grab	X	X							
MW06	4 voa	02/11/16 @1130	Water	Grab	X	X							
MW07	4 voa	02/11/16 @1405	Water	Grab	X	X							
MW08	4 voa	02/11/16 @0945	Water	Grab	X	X							
MW09	4 voa	02/11/16 @1005	Water	Grab	X	X							

Corrected

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 Ice
11 _____
* (Use blanks for preservatives not listed.)

COMMENTS:
Page 1 of 4
REIC COURIER

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.1 °C — ICED? Y ✓ N ___

Containers provided by: [ ] REIC [✓] Client

1 Relinquished by (signature)	2/11/16 Date/Time 1215	2 Rec'd: Relinquished by (signature)	2-16-16 Date/Time 13:20	3 Relinquished by (signature)	Date/Time
Received by (signature)	2-16-16 Date/Time 1216	rec'd: Received by (signature) Amanda	2-16-16 Date/Time 1620	Received by (signature) C Meadows 2/16/16	21:10 Date/Time

CHAIN OF CUSTODY RECORD

v10-0114 REIC use ONLY CLIENT ID _____ DATE _____ SHEET _____

REIC
Research Environmental & Industrial Consultants, Inc.
MAIN LABORATORY & CORPORATE HEADQUARTERS:
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800-999-0105 • 304-255-2500 • www.reiclabs.com

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540-248-0183

ROANOKE Service Center
3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

Client: Greene Environmental Services PO # _____
Contact Person: Trev Greene Phone: (540) 483-3311
Address: 129 Bunny Ridge Lane City: Rocky Mount State: VA Zip: 24151
Billing Address (if different): 200 Buckwheat Lane
City: Rocky Mount State: VA Zip: 24151
Site ID & State: Virginia Project ID: Meadows of Dan Food Market - FMMD1007 Sampler: CH

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL
RUSH TURNAROUND*: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: TPH-GRO; BTEX, MTBE, Naphthalene

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1 / 10	1 / 10							
MW10	4 voa	02/11/16 @1020	Water	Grab	X	X							
MW11	4 voa	02/11/16 @1035	Water	Grab	X	X							
MW12	4 voa	02/10/16 @1435	Water	Grab	X	X							
MW13	4 voa	02/11/16 @1150	Water	Grab	X	X							
MW14	4 voa	02/10/16 @1645	Water	Grab	X	X							
MW15	4 voa	02/10/16 @1730	Water	Grab	X	X							
MW16	4 voa	02/11/16 @0925	Water	Grab	X	X							
MW17	4 voa	02/11/16 @0840	Water	Grab	X	X							
MW18	4 voa	02/11/16 @1105	Water	Grab	X	X							

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 Ice
11 _____
* (Use blanks for preservatives not listed.)

COMMENTS:
Page 2 of 4
REIC Courier

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Temperature at arrival: 1.6°C ICED? Y ✓ N___

Containers provided by: [ ] REIC [✓] Client

1 Relinquished by (signature)	1215 2/16/16 Date/Time	2 Rec'd: Relinquished by (signature)	2-16-16 13:20 Date/Time
Received by (signature)	2-16-16 1216 Date/Time	Received by (signature) rec'd Amanda	2-16-16 1620 Date/Time
3 Relinquished by (signature)	Date/Time		
Received by (signature) Meadows 2/16/16	2-16-16 Date/Time		

CHAIN OF CUSTODY RECORD

v10-0114 REIC use ONLY — CLIENT ID _____ DATE _____ SHEET ____

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3029-C Peters Creek Rd
Roanoke, VA 24019
540-777-1276

MORGANTOWN Service Center
16 Commerce Drive
Westover, WV 26501
304-241-5861

Client: Greene Environmental Services — PO #

Contact Person: Trev Greene — Phone: (540) 483-3311

Address: 129 Bunny Ridge Lane — City: Rocky Mount — State: VA — Zip: 24151

Billing Address (if different): 200 Buckwheat Lane

City: Rocky Mount — State: VA — Zip: 24151

Site ID & State: Virginia — Project ID: Meadows of Dan Food Market - FMMD1007 — Sampler: CH

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME

(•) NORMAL

RUSH TURNAROUND*

( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY

*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: TPH-GRO; BTEX, MTBE, Naphthalene

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1 / 10	1 / 10							
MW19	4 voa	02/11/16 @1510	Water	Grab	X	X							
MW20	4 voa	02/11/16 @1050	Water	Grab	X	X							
MW21	4 voa	02/10/16 @1705	Water	Grab	X	X							
MW22	4 voa	02/10/16 @1655	Water	Grab	X	X							
MW23	4 voa	02/10/16 @1515	Water	Grab	X	X							
MW24	4 voa	02/10/16 @1600	Water	Grab	X	X							
MW25	4 voa	02/11/16 @1430	Water	Grab	X	X							
MW26	4 voa	02/10/16 @1635	Water	Grab	X	X							
MW27	4 voa	02/11/16 @1335	Water	Grab	X	X	IRH corrected						

ENTER PRESERVATIVE CODE(S):

0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 Ice *
11 _____ *

*(Use blanks for preservatives not listed.)

COMMENTS:

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REIC courier

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.6°C — ICED? Y ✓ N ___

Containers provided by: [ ] REIC [✓] Client

	Relinquished by (signature)	Date/Time	Received by (signature)	Date/Time
1	Caleb Hamm	2/16/16 1255	Rec'd:	2-16-16 13:20
2		2-16-16 216	rec'd Amanda	2-16-16 1620
3			C Meadows 2/16/16	2/16

CHAIN OF CUSTODY RECORD

v10-0114 REIC use ONLY CLIENT ID _____ DATE _____ SHEET ____

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Client: Greene Environmental Services PO # _____
Contact Person: Trev Greene Phone: (540) 483-3311
Address: 129 Bunny Ridge Lane City: Rocky Mount State: VA Zip: 24151
Billing Address (if different): 200 Buckwheat Lane
City: Rocky Mount State: VA Zip: 24151
Site ID & State: Virginia Project ID: Meadows of Dan Food Market - FMMD1007 Sampler: CH

SAMPLE LOG & ANALYSIS REQUEST

TURNAROUND TIME: (•) NORMAL
RUSH TURNAROUND*: ( ) 5 DAY ( ) 3 DAY ( ) 2 DAY ( ) 1 DAY
*Rush work needs prior laboratory approval and will incur additional charges

ANALYSIS & METHOD REQUESTED: TPH-GRO; BTEX, MTBE, Naphthalene; VOCs via 8260

SAMPLE ID	No. & Type of Containers	Sampling Date/Time	Matrix	Sample Comp/Grab	1 10	1 10	1 10						
MW28	4 voa	02/10/16 @1720	Water	Grab	X	X							
DW01	4 voa	02/11/16 @1440	Water	Grab			X						
DW07	4 voa	02/11/16 @1400	Water	Grab			X						
DW13	4 voa	02/11/16 @1545	Water	Grab			X						
DW14	4 voa	02/11/16 @1500	Water	Grab			X						
DW19	4 voa	02/11/16 @1215	Water	Grab			X						
DW21	4 voa	02/11/16 @1605	Water	Grab			X						
			Choose	Choose									
			Choose	Choose									

TR# corrected

ENTER PRESERVATIVE CODE(S):
0 None
1 Hydrochloric Acid
2 Nitric Acid
3 Sulfuric Acid
4 Sodium Thiosulfate
5 Sodium Hydroxide/ Sodium Arsenite
6 Sodium Hydroxide
7 Ascorbic Acid
8 Sodium Bisulfate/Methanol
9 Ammonium Chloride
10 Ice *
11 _____ *
* (Use blanks for preservatives not listed.)

COMMENTS:
Page 4 of 4
REIC courier

All analytical requests are subject to REIC's Standard Terms and Conditions.

Temperature at arrival: 1.6 °C ICED? Y___ N___

Containers provided by: [ ] REIC [✓] Client

1 Relinquished by (signature): Caleb Hawkins	Date/Time: 2/16/16 1215	2 Rec'd. Relinquished by (signature):	Date/Time: 2-16-16 13:20	3 Relinquished by (signature):	Date/Time:
Received by (signature):	Date/Time: 2-16/16 1216	Received by (signature): Amanda	Date/Time: 2-16-16 1620	Received by (signature): C Meadows 2/16/16	Date/Time: 21:10

ANALYTICAL REPORT

March 03, 2016

Greene Env. Services, LLC

Sample Delivery Group:	L819842
Samples Received:	02/25/2016
Project Number:	FMMD1007
Description:	Meadows of Dan Food Market
Report To:	Mr. Trev Greene 129 Bunny Ridge Lane Rocky Mount, VA 24151

Entire Report Reviewed By:

Terrie Fudge
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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RCP01 L819842-01 Air

Collected by: CH
Collected date/time: 02/23/16 14:35
Received date/time: 02/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG853045	2000	03/01/16 19:24	03/01/16 19:24	MBF
Volatile Organic Compounds (MS) by Method M18-Mod	WG853373	20000	03/03/16 04:03	03/03/16 04:03	MBF

AS01 L819842-02 Air

Collected by: CH
Collected date/time: 02/23/16 15:00
Received date/time: 02/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG853045	800	03/01/16 20:07	03/01/16 20:07	MBF

INF01 L819842-04 GW

Collected by: CH
Collected date/time: 02/23/16 14:00
Received date/time: 02/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG852552	1000	02/29/16 08:18	02/29/16 08:18	BMB

EFF01 L819842-05 GW

Collected by: CH
Collected date/time: 02/23/16 14:05
Received date/time: 02/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG852552	1	02/29/16 08:40	02/29/16 08:40	BMB

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.

Terrie Fudge

Terrie Fudge
Technical Service Representative

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	Result ppb	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	400	1280	18000	57500		2000	WG853045
Toluene	108-88-3	92.10	4000	15100	253000	951000		20000	WG853373
Ethylbenzene	100-41-4	106	400	1730	22800	98700		2000	WG853045
m&p-Xylene	1330-20-7	106	800	3470	63700	276000		2000	WG853045
o-Xylene	95-47-6	106	400	1730	23300	101000		2000	WG853045
Methyl tert-butyl ether	1634-04-4	88.10	400	1440	5890	21200		2000	WG853045
TPH (GC/MS) Low Fraction	8006-61-9	101	100000	413000	2610000	10800000		2000	WG853045
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.6*				WG853045

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppb	RDL2 ug/m3	Result ppb	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	160	511	3160	10100		800	WG853045
Toluene	108-88-3	92.10	160	603	36800	139000		800	WG853045
Ethylbenzene	100-41-4	106	160	694	10400	45200		800	WG853045
m&p-Xylene	1330-20-7	106	320	1390	34500	150000		800	WG853045
o-Xylene	95-47-6	106	160	694	16500	71400		800	WG853045
Methyl tert-butyl ether	1634-04-4	88.10	160	577	5660	20400		800	WG853045
TPH (GC/MS) Low Fraction	8006-61-9	101	40000	165000	241000	997000		800	WG853045
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*97.5*				WG853045

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	1.18		0.500	1000	02/29/2016 08:18	WG852552
Toluene	14.5		5.00	1000	02/29/2016 08:18	WG852552
Ethylbenzene	3.83		0.500	1000	02/29/2016 08:18	WG852552
Total Xylene	22.1		1.50	1000	02/29/2016 08:18	WG852552
Methyl tert-butyl ether	2.97		1.00	1000	02/29/2016 08:18	WG852552
TPH (GC/FID) Low Fraction	125		100	1000	02/29/2016 08:18	WG852552
(S) a,a,a-Trifluorotoluene(FID)	*101*		*62.0-128*		*02/29/2016 08:18*	WG852552
(S) a,a,a-Trifluorotoluene(PID)	*101*		*55.0-122*		*02/29/2016 08:18*	WG852552

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	02/29/2016 08:40	WG852552
Toluene	ND		0.00500	1	02/29/2016 08:40	WG852552
Ethylbenzene	ND		0.000500	1	02/29/2016 08:40	WG852552
Total Xylene	ND		0.00150	1	02/29/2016 08:40	WG852552
Methyl tert-butyl ether	ND		0.00100	1	02/29/2016 08:40	WG852552
TPH (GC/FID) Low Fraction	ND		0.100	1	02/29/2016 08:40	WG852552
(S) α,α,α-Trifluorotoluene(FID)	*101*		*62.0-128*		*02/29/2016 08:40*	WG852552
(S) α,α,α-Trifluorotoluene(PID)	*101*		*55.0-122*		*02/29/2016 08:40*	WG852552

Method Blank (MB)

(MB) 03/01/16 02:52

Analyte	MB Result ppb	MB Qualifier	MB RDL ppb
Benzene	ND		0.200
Ethylbenzene	ND		0.200
MTBE	ND		0.200
Toluene	ND		0.200
m&p-Xylene	ND		0.400
o-Xylene	ND		0.200
TPH (GC/MS) Low Fraction	ND		50.0
(S) 1,4-Bromofluorobenzene	*93.2*		*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/01/16 01:20 • (LCSD) 03/01/16 02:06

Analyte	Spike Amount ppb	LCS Result ppb	LCSD Result ppb	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.79	3.65	101	97.4	70.0-130			3.72	25
Benzene	3.75	3.74	3.73	99.7	99.5	70.0-130			0.200	25
Toluene	3.75	3.81	3.73	102	99.4	70.0-130			2.27	25
Ethylbenzene	3.75	3.77	3.74	100	99.9	70.0-130			0.570	25
m&p-Xylene	7.50	7.36	7.22	98.2	96.2	70.0-130			1.99	25
o-Xylene	3.75	3.77	3.71	101	98.9	70.0-130			1.68	25
TPH (GC/MS) Low Fraction	150	155	153	103	102	70.0-130			1.34	25
(S) 1,4-Bromofluorobenzene				*101*	*99.4*	*60.0-140*				

Method Blank (MB)

(MB) 03/03/16 02:49

Analyte	MB Result ppb	MB Qualifier	MB RDL ppb
Toluene	ND		0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/03/16 01:31 • (LCSD) 03/03/16 02:09

Analyte	Spike Amount ppb	LCS Result ppb	LCSD Result ppb	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Toluene	3.75	4.35	4.38	116	117	70.0-130			0.640	25

Method Blank (MB)

(MB) 02/28/16 21:00

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Benzene	ND		0.000500
Toluene	ND		0.00500
Ethylbenzene	ND		0.000500
Total Xylene	ND		0.00150
Methyl tert-butyl ether	ND		0.00100
TPH (GC/FID) Low Fraction	ND		0.100
(S) a,a,a-Trifluorotoluene(FID)	*102*		*62.0-128*
(S) a,a,a-Trifluorotoluene(PID)	*102*		*55.0-122*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/28/16 19:10 • (LCSD) 02/28/16 19:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0494	0.0491	98.8	98.2	70.0-130			0.650	20
Toluene	0.0500	0.0499	0.0485	99.8	97.0	70.0-130			2.82	20
Ethylbenzene	0.0500	0.0507	0.0495	101	99.0	70.0-130			2.50	20
Total Xylene	0.150	0.151	0.147	101	97.9	70.0-130			2.81	20
Methyl tert-butyl ether	0.0500	0.0404	0.0400	80.7	79.9	70.0-130			1.00	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*101*	*62.0-128*				
(S) a,a,a-Trifluorotoluene(PID)				*100*	*100*	*55.0-122*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 02/28/16 19:54 • (LCSD) 02/28/16 20:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.10	5.16	92.7	93.8	67.0-132			1.23	20
(S) a,a,a-Trifluorotoluene(FID)				*97.5*	*97.6*	*62.0-128*				
(S) a,a,a-Trifluorotoluene(PID)				*109*	*108*	*55.0-122*				

L819959-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/28/16 23:57 • (MS) 02/28/16 22:08 • (MSD) 02/28/16 22:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.000134	0.0382	0.0390	76.2	77.7	1	57.2-131			1.87	20
Toluene	0.0500	0.000330	0.0404	0.0404	80.1	80.2	1	63.7-134			0.120	20
Ethylbenzene	0.0500	0.0000862	0.0434	0.0435	86.7	86.8	1	67.5-135			0.170	20
Total Xylene	0.150	0.000461	0.130	0.130	86.3	86.1	1	65.9-138			0.170	20
Methyl tert-butyl ether	0.0500	0.000765	0.0372	0.0374	72.8	73.3	1	52.4-137			0.630	20
(S) a,a,a-Trifluorotoluene(FID)					*101*	*101*		*62.0-128*				
(S) a,a,a-Trifluorotoluene(PID)					*100*	*100*		*55.0-122*				

L819959-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 02/28/16 23:57 • (MS) 02/28/16 22:52 • (MSD) 02/28/16 23:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.0242	1.89	2.04	33.9	36.7	1	50.0-143	J6	J6	7.75	20
(S) a,a,a-Trifluorotoluene(PID)					*101*	*101*		*55.0-122*				
(S) a,a,a-Trifluorotoluene(FID)					*98.8*	*98.8*		*62.0-128*				

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
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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

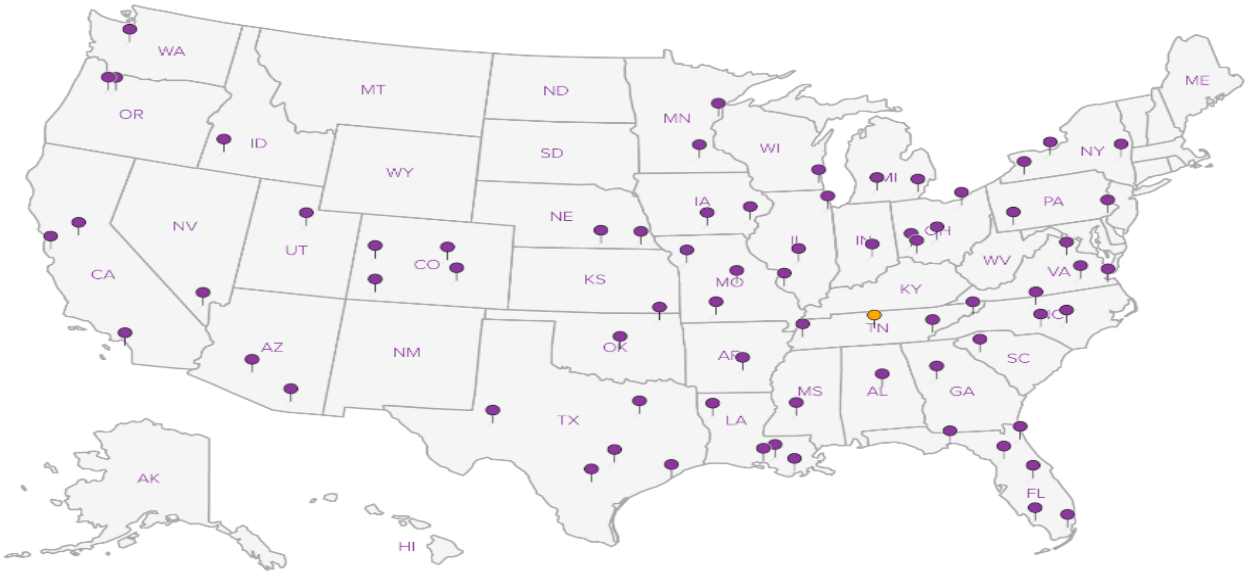
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

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.**



Company Name/Address:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151

Billing Information:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151
GREENENVA120914S

Report to: Trev Greene

Email To: tgreene@greene-environmental.com

Project Description: Meadows of Dan Food Market

City/State Collected: VA

Phone: 540-483-3311
Fax: 540-483-3381

Client Project #: FMMD1007

Lab Project #

Collected by (print): CH

Site/Facility ID #

P.O. #: GREENENVA120914S

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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# 819842

K064

Acctnum:
Template:
Prelogin:
TSR:
PB:

Shipped Via: FEDEX

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX, MTBE via 8021	TPH-GRO via 8015	BTEX, MTBE via Method 18	TVPH via Method 18							Rem./Contaminant	Sample # (lab only)
INF01	Grab	GW		02/23/16	1400	4	X	X										03
EFF01	Grab	GW		02/23/16	1405	4	X	X										04
RCP01	Grab	Air		02/23/16	1435	1			X	X								01
AS01	Grab	Air		02/23/16	1500	1			X	X								02

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other 8762 6739 8960

pH _____ Temp _____
Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	2-24-16	1130	
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: Amb °C Bottles Received: 2

Date: 2-25-16 Time: 0910

Condition: (lab use only) OK OK SW 7

COC Seal Intact: ____Y ____N ____NA

pH Checked:

NCF: N

ANALYTICAL REPORT

March 11, 2016

Greene Env. Services, LLC

Sample Delivery Group:	L820762
Samples Received:	03/01/2016
Project Number:	FMMD1007
Description:	Meadows of Dan Food Market
Report To:	Mr. Trev Greene 129 Bunny Ridge Lane Rocky Mount, VA 24151

Entire Report Reviewed By:

Terrie Fudge

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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INF02 L820762-01 GW

Collected by: CH | Collected date/time: 02/26/16 15:00 | Received date/time: 03/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG854065	50	03/05/16 05:04	03/05/16 05:04	DWR
Volatile Organic Compounds (GC) by Method 8021	WG853847	100	03/04/16 06:06	03/04/16 06:06	LRL

EFF02 L820762-02 GW

Collected by: CH | Collected date/time: 02/26/16 15:10 | Received date/time: 03/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG854065	1	03/05/16 05:25	03/05/16 05:25	DWR
Volatile Organic Compounds (GC) by Method 8015M	WG855489	1	03/10/16 22:26	03/10/16 22:26	SNH
Volatile Organic Compounds (GC) by Method 8021	WG853847	1	03/04/16 06:28	03/04/16 06:28	LRL
Wet Chemistry by Method 9040C	WG853194	1	03/02/16 12:16	03/02/16 12:16	AMC

RCP02 L820762-03 Air

Collected by: CH | Collected date/time: 02/26/16 14:50 | Received date/time: 03/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG854254	2000	03/08/16 05:53	03/08/16 05:53	MBF
Volatile Organic Compounds (MS) by Method M18-Mod	WG854618	20000	03/08/16 16:48	03/08/16 16:48	MBF

AS02 L820762-04 Air

Collected by: CH | Collected date/time: 02/26/16 14:50 | Received date/time: 03/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG854254	2	03/08/16 06:37	03/08/16 06:37	MBF
Volatile Organic Compounds (MS) by Method M18-Mod	WG854618	25	03/08/16 17:32	03/08/16 17:32	MBF

DW19 L820762-05 GW

Collected by: CH | Collected date/time: 02/26/16 12:00 | Received date/time: 03/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854092	1	03/05/16 03:16	03/05/16 03:16	BMB

DW22 L820762-06 GW

Collected by: CH | Collected date/time: 02/26/16 16:30 | Received date/time: 03/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG854092	1	03/05/16 03:34	03/05/16 03:34	BMB

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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.

Terrie Fudge

Terrie Fudge
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L820762-02	EFF02	9040C

Volatile Organic Compounds (GC) by Method 8015D/8021/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.889		0.0500	100	03/04/2016 06:06	WG853847
TPH (GC/FID) Low Fraction	65.2		5.00	50	03/05/2016 05:04	WG854065
Toluene	8.49		0.500	100	03/04/2016 06:06	WG853847
Ethylbenzene	2.10		0.0500	100	03/04/2016 06:06	WG853847
Total Xylene	13.1		0.150	100	03/04/2016 06:06	WG853847
Methyl tert-butyl ether	3.46		0.100	100	03/04/2016 06:06	WG853847
(S) a,a,a-Trifluorotoluene(FID)	*99.5*		*62.0-128*		*03/05/2016 05:04*	WG854065
(S) a,a,a-Trifluorotoluene(PID)	*101*		*55.0-122*		*03/04/2016 06:06*	WG853847

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.29		1	03/02/2016 12:16	WG853194

Sample Narrative:

9040C L820762-02 WG853194: 7.29 at 21.7c

Volatile Organic Compounds (GC) by Method 8015D/8021/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	03/04/2016 06:28	WG853847
TPH (GC/FID) Low Fraction	ND		0.100	1	03/05/2016 05:25	WG854065
Toluene	ND		0.00500	1	03/04/2016 06:28	WG853847
Ethylbenzene	ND		0.000500	1	03/04/2016 06:28	WG853847
Total Xylene	ND		0.00150	1	03/04/2016 06:28	WG853847
Methyl tert-butyl ether	0.00260		0.00100	1	03/04/2016 06:28	WG853847
(S) a,a,a-Trifluorotoluene(FID)	*97.1*		*62.0-128*		*03/05/2016 05:25*	WG854065
(S) a,a,a-Trifluorotoluene(PID)	*101*		*55.0-122*		*03/04/2016 06:28*	WG853847

Volatile Organic Compounds (GC) by Method 8015M/RSK175

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Methanol	1.98	J5	0.0200	1	03/10/2016 22:26	WG855489
Ethanol	3.64	V	0.100	1	03/10/2016 22:26	WG855489

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	400	1280	18600	59300		2000	WG854254
Toluene	108-88-3	92.10	4000	15100	116000	438000		20000	WG854618
Ethylbenzene	100-41-4	106	400	1730	19700	85400		2000	WG854254
m&p-Xylene	1330-20-7	106	800	3470	61200	265000		2000	WG854254
o-Xylene	95-47-6	106	400	1730	21100	91500		2000	WG854254
Methyl tert-butyl ether	1634-04-4	88.10	400	1440	5940	21400		2000	WG854254
TPH (GC/MS) Low Fraction	8006-61-9	101	100000	413000	1590000	6590000		2000	WG854254
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.4*				WG854254

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.400	1.28	59.3	189		2	WG854254
Toluene	108-88-3	92.10	5.00	18.8	397	1500		25	WG854618
Ethylbenzene	100-41-4	106	0.400	1.73	92.8	402		2	WG854254
m&p-Xylene	1330-20-7	106	10.0	43.4	321	1390		25	WG854618
o-Xylene	95-47-6	106	5.00	21.7	156	676		25	WG854618
Methyl tert-butyl ether	1634-04-4	88.10	5.00	18.0	289	1040		25	WG854618
TPH (GC/MS) Low Fraction	8006-61-9	101	100	413	1980	8170		2	WG854254
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*104*				WG854254

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	03/05/2016 03:16	WG854092
Acrolein	ND		0.0500	1	03/05/2016 03:16	WG854092
Acrylonitrile	ND		0.0100	1	03/05/2016 03:16	WG854092
Benzene	ND		0.00100	1	03/05/2016 03:16	WG854092
Bromobenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
Bromodichloromethane	ND		0.00100	1	03/05/2016 03:16	WG854092
Bromoform	ND		0.00100	1	03/05/2016 03:16	WG854092
Bromomethane	ND		0.00500	1	03/05/2016 03:16	WG854092
n-Butylbenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
sec-Butylbenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
tert-Butylbenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
Carbon tetrachloride	ND		0.00100	1	03/05/2016 03:16	WG854092
Chlorobenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
Chlorodibromomethane	ND		0.00100	1	03/05/2016 03:16	WG854092
Chloroethane	ND		0.00500	1	03/05/2016 03:16	WG854092
2-Chloroethyl vinyl ether	ND		0.0500	1	03/05/2016 03:16	WG854092
Chloroform	ND		0.00500	1	03/05/2016 03:16	WG854092
Chloromethane	ND		0.00250	1	03/05/2016 03:16	WG854092
2-Chlorotoluene	ND		0.00100	1	03/05/2016 03:16	WG854092
4-Chlorotoluene	ND		0.00100	1	03/05/2016 03:16	WG854092
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	03/05/2016 03:16	WG854092
1,2-Dibromoethane	ND		0.00100	1	03/05/2016 03:16	WG854092
Dibromomethane	ND		0.00100	1	03/05/2016 03:16	WG854092
1,2-Dichlorobenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
1,3-Dichlorobenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
1,4-Dichlorobenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
Dichlorodifluoromethane	ND		0.00500	1	03/05/2016 03:16	WG854092
1,1-Dichloroethane	ND		0.00100	1	03/05/2016 03:16	WG854092
1,2-Dichloroethane	ND		0.00100	1	03/05/2016 03:16	WG854092
1,1-Dichloroethene	ND		0.00100	1	03/05/2016 03:16	WG854092
cis-1,2-Dichloroethene	ND		0.00100	1	03/05/2016 03:16	WG854092
trans-1,2-Dichloroethene	ND		0.00100	1	03/05/2016 03:16	WG854092
1,2-Dichloropropane	ND		0.00100	1	03/05/2016 03:16	WG854092
1,1-Dichloropropene	ND		0.00100	1	03/05/2016 03:16	WG854092
1,3-Dichloropropane	ND		0.00100	1	03/05/2016 03:16	WG854092
cis-1,3-Dichloropropene	ND		0.00100	1	03/05/2016 03:16	WG854092
trans-1,3-Dichloropropene	ND		0.00100	1	03/05/2016 03:16	WG854092
2,2-Dichloropropane	ND		0.00100	1	03/05/2016 03:16	WG854092
Di-isopropyl ether	0.00141		0.00100	1	03/05/2016 03:16	WG854092
Ethylbenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
Hexachloro-1,3-butadiene	ND		0.00100	1	03/05/2016 03:16	WG854092
Isopropylbenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
p-Isopropyltoluene	ND		0.00100	1	03/05/2016 03:16	WG854092
2-Butanone (MEK)	ND		0.0100	1	03/05/2016 03:16	WG854092
Methylene Chloride	ND		0.00500	1	03/05/2016 03:16	WG854092
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	03/05/2016 03:16	WG854092
Methyl tert-butyl ether	ND		0.00100	1	03/05/2016 03:16	WG854092
Naphthalene	ND		0.00500	1	03/05/2016 03:16	WG854092
n-Propylbenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
Styrene	ND		0.00100	1	03/05/2016 03:16	WG854092
1,1,1,2-Tetrachloroethane	ND		0.00100	1	03/05/2016 03:16	WG854092
1,1,2,2-Tetrachloroethane	ND		0.00100	1	03/05/2016 03:16	WG854092
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	03/05/2016 03:16	WG854092
Tetrachloroethene	ND		0.00100	1	03/05/2016 03:16	WG854092
Toluene	ND		0.00500	1	03/05/2016 03:16	WG854092
1,2,3-Trichlorobenzene	ND		0.00100	1	03/05/2016 03:16	WG854092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
1,1,1-Trichloroethane	ND		0.00100	1	03/05/2016 03:16	WG854092
1,1,2-Trichloroethane	ND		0.00100	1	03/05/2016 03:16	WG854092
Trichloroethene	ND		0.00100	1	03/05/2016 03:16	WG854092
Trichlorofluoromethane	ND		0.00500	1	03/05/2016 03:16	WG854092
1,2,3-Trichloropropane	ND		0.00250	1	03/05/2016 03:16	WG854092
1,2,4-Trimethylbenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
1,2,3-Trimethylbenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
1,3,5-Trimethylbenzene	ND		0.00100	1	03/05/2016 03:16	WG854092
Vinyl chloride	ND		0.00100	1	03/05/2016 03:16	WG854092
Xylenes, Total	ND		0.00300	1	03/05/2016 03:16	WG854092
(S) Toluene-d8	*103*		*90.0-115*		*03/05/2016 03:16*	WG854092
(S) Dibromofluoromethane	*102*		*79.0-121*		*03/05/2016 03:16*	WG854092
(S) 4-Bromofluorobenzene	*94.8*		*80.1-120*		*03/05/2016 03:16*	WG854092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	03/05/2016 03:34	WG854092
Acrolein	ND		0.0500	1	03/05/2016 03:34	WG854092
Acrylonitrile	ND		0.0100	1	03/05/2016 03:34	WG854092
Benzene	ND		0.00100	1	03/05/2016 03:34	WG854092
Bromobenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
Bromodichloromethane	ND		0.00100	1	03/05/2016 03:34	WG854092
Bromoform	ND		0.00100	1	03/05/2016 03:34	WG854092
Bromomethane	ND		0.00500	1	03/05/2016 03:34	WG854092
n-Butylbenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
sec-Butylbenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
tert-Butylbenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
Carbon tetrachloride	ND		0.00100	1	03/05/2016 03:34	WG854092
Chlorobenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
Chlorodibromomethane	ND		0.00100	1	03/05/2016 03:34	WG854092
Chloroethane	ND		0.00500	1	03/05/2016 03:34	WG854092
2-Chloroethyl vinyl ether	ND		0.0500	1	03/05/2016 03:34	WG854092
Chloroform	ND		0.00500	1	03/05/2016 03:34	WG854092
Chloromethane	ND		0.00250	1	03/05/2016 03:34	WG854092
2-Chlorotoluene	ND		0.00100	1	03/05/2016 03:34	WG854092
4-Chlorotoluene	ND		0.00100	1	03/05/2016 03:34	WG854092
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	03/05/2016 03:34	WG854092
1,2-Dibromoethane	ND		0.00100	1	03/05/2016 03:34	WG854092
Dibromomethane	ND		0.00100	1	03/05/2016 03:34	WG854092
1,2-Dichlorobenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
1,3-Dichlorobenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
1,4-Dichlorobenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
Dichlorodifluoromethane	ND		0.00500	1	03/05/2016 03:34	WG854092
1,1-Dichloroethane	ND		0.00100	1	03/05/2016 03:34	WG854092
1,2-Dichloroethane	ND		0.00100	1	03/05/2016 03:34	WG854092
1,1-Dichloroethene	ND		0.00100	1	03/05/2016 03:34	WG854092
cis-1,2-Dichloroethene	ND		0.00100	1	03/05/2016 03:34	WG854092
trans-1,2-Dichloroethene	ND		0.00100	1	03/05/2016 03:34	WG854092
1,2-Dichloropropane	ND		0.00100	1	03/05/2016 03:34	WG854092
1,1-Dichloropropene	ND		0.00100	1	03/05/2016 03:34	WG854092
1,3-Dichloropropane	ND		0.00100	1	03/05/2016 03:34	WG854092
cis-1,3-Dichloropropene	ND		0.00100	1	03/05/2016 03:34	WG854092
trans-1,3-Dichloropropene	ND		0.00100	1	03/05/2016 03:34	WG854092
2,2-Dichloropropane	ND		0.00100	1	03/05/2016 03:34	WG854092
Di-isopropyl ether	ND		0.00100	1	03/05/2016 03:34	WG854092
Ethylbenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
Hexachloro-1,3-butadiene	ND		0.00100	1	03/05/2016 03:34	WG854092
Isopropylbenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
p-Isopropyltoluene	ND		0.00100	1	03/05/2016 03:34	WG854092
2-Butanone (MEK)	ND		0.0100	1	03/05/2016 03:34	WG854092
Methylene Chloride	ND		0.00500	1	03/05/2016 03:34	WG854092
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	03/05/2016 03:34	WG854092
Methyl tert-butyl ether	ND		0.00100	1	03/05/2016 03:34	WG854092
Naphthalene	ND		0.00500	1	03/05/2016 03:34	WG854092
n-Propylbenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
Styrene	ND		0.00100	1	03/05/2016 03:34	WG854092
1,1,1,2-Tetrachloroethane	ND		0.00100	1	03/05/2016 03:34	WG854092
1,1,2,2-Tetrachloroethane	ND		0.00100	1	03/05/2016 03:34	WG854092
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	03/05/2016 03:34	WG854092
Tetrachloroethene	ND		0.00100	1	03/05/2016 03:34	WG854092
Toluene	ND		0.00500	1	03/05/2016 03:34	WG854092
1,2,3-Trichlorobenzene	ND		0.00100	1	03/05/2016 03:34	WG854092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
1,1,1-Trichloroethane	ND		0.00100	1	03/05/2016 03:34	WG854092
1,1,2-Trichloroethane	ND		0.00100	1	03/05/2016 03:34	WG854092
Trichloroethene	ND		0.00100	1	03/05/2016 03:34	WG854092
Trichlorofluoromethane	ND		0.00500	1	03/05/2016 03:34	WG854092
1,2,3-Trichloropropane	ND		0.00250	1	03/05/2016 03:34	WG854092
1,2,4-Trimethylbenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
1,2,3-Trimethylbenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
1,3,5-Trimethylbenzene	ND		0.00100	1	03/05/2016 03:34	WG854092
Vinyl chloride	ND		0.00100	1	03/05/2016 03:34	WG854092
Xylenes, Total	ND		0.00300	1	03/05/2016 03:34	WG854092
(S) Toluene-d8	*102*		*90.0-115*		*03/05/2016 03:34*	WG854092
(S) Dibromofluoromethane	*100*		*79.0-121*		*03/05/2016 03:34*	WG854092
(S) 4-Bromofluorobenzene	*93.4*		*80.1-120*		*03/05/2016 03:34*	WG854092

L820654-04 Original Sample (OS) • Duplicate (DUP)

(OS) 03/02/16 12:16 • (DUP) 03/02/16 12:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.58	7.59	1	0.132		1

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/02/16 12:16 • (LCSD) 03/02/16 12:16

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	su	su	su	%	%	%			%	%
pH	6.31	6.33	6.32	100	100	98.5-102			0.158	1

Method Blank (MB)

(MB) 03/07/16 22:37

Analyte	MB Result ppbv	MB Qualifier	MB RDL ppbv
Benzene	ND		0.200
Ethylbenzene	ND		0.200
MTBE	ND		0.200
m&p-Xylene	ND		0.400
o-Xylene	ND		0.200
TPH (GC/MS) Low Fraction	ND		50.0
(S) 1,4-Bromofluorobenzene	*98.0*		*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/07/16 21:10 • (LCSD) 03/07/16 21:53

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	4.26	4.52	114	120	70.0-130			5.90	25
Benzene	3.75	3.81	3.85	102	103	70.0-130			1.16	25
Ethylbenzene	3.75	3.94	4.00	105	107	70.0-130			1.67	25
m&p-Xylene	7.50	8.05	8.15	107	109	70.0-130			1.17	25
o-Xylene	3.75	3.98	4.05	106	108	70.0-130			1.68	25
TPH (GC/MS) Low Fraction	150	161	164	107	109	70.0-130			2.10	25
(S) 1,4-Bromofluorobenzene				*99.4*	*102*	*60.0-140*				

Method Blank (MB)

(MB) 03/08/16 15:22

Analyte	MB Result ppbv	MB Qualifier	MB RDL ppbv
MTBE	ND		0.200
Toluene	ND		0.200
m&p-Xylene	ND		0.400
o-Xylene	ND		0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/08/16 13:54 • (LCSD) 03/08/16 16:05

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.74	3.50	99.9	93.3	70.0-130			6.78	25
Toluene	3.75	3.85	3.85	103	103	70.0-130			0.190	25
m&p-Xylene	7.50	7.99	8.03	107	107	70.0-130			0.410	25
o-Xylene	3.75	3.88	3.95	103	105	70.0-130			1.79	25

Method Blank (MB)

(MB) 03/04/16 23:52

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
TPH (GC/FID) Low Fraction	ND		0.100
(S) α,α,α-Trifluorotoluene(FID)	*97.3*		*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/04/16 22:49 • (LCSD) 03/04/16 23:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.16	6.01	112	109	67.0-132			2.51	20
(S) α,α,α-Trifluorotoluene(FID)				*97.6*	*98.5*	*62.0-128*				

L821061-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/05/16 01:35 • (MS) 03/05/16 00:32 • (MSD) 03/05/16 00:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	6.04	5.83	110	106	1	50.0-143			3.45	20
(S) α,α,α-Trifluorotoluene(FID)					*99.5*	*97.5*		*62.0-128*				

Method Blank (MB)

(MB) 03/10/16 22:08

Analyte	MB Result ppm	MB Qualifier	MB RDL ppm
Methanol	ND		0.0200
Ethanol	ND		0.100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 21:33 • (LCSD) 03/10/16 21:51

Analyte	Spike Amount ppm	LCS Result ppm	LCSD Result ppm	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Methanol	0.500	0.567	0.481	113	96.3	70.0-130			16.4	20
Ethanol	0.500	0.626	0.561	125	112	70.0-130			11.0	20

L820762-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 22:26 • (MS) 03/10/16 22:44 • (MSD) 03/10/16 23:02

Analyte	Spike Amount ppm	Original Result mg/l	MS Result ppm	MSD Result ppm	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methanol	0.500	1.98	2.64	2.93	130	190	1	70.0-130		J5	10.7	20
Ethanol	0.500	3.64	4.65	5.13	202	297	1	70.0-130	V	V	9.69	20

Method Blank (MB)

(MB) 03/04/16 00:05

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Benzene	ND		0.000500
Toluene	ND		0.00500
Ethylbenzene	ND		0.000500
Total Xylene	ND		0.00150
Methyl tert-butyl ether	ND		0.00100
(S) α,α,α-Trifluorotoluene(PID)	*102*		*55.0-122*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/03/16 22:58 • (LCSD) 03/03/16 23:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0423	0.0479	84.6	95.8	70.0-130			12.3	20
Toluene	0.0500	0.0419	0.0466	83.8	93.2	70.0-130			10.7	20
Ethylbenzene	0.0500	0.0430	0.0477	85.9	95.4	70.0-130			10.5	20
Total Xylene	0.150	0.130	0.144	86.8	95.9	70.0-130			10.0	20
Methyl tert-butyl ether	0.0500	0.0430	0.0512	86.1	102	70.0-130			17.4	20
(S) α,α,α-Trifluorotoluene(PID)				*101*	*101*	*55.0-122*				

L820194-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/04/16 01:58 • (MS) 03/04/16 00:28 • (MSD) 03/04/16 00:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	ND	0.0447	0.0445	89.3	89.0	1	57.2-131			0.380	20
Toluene	0.0500	ND	0.0452	0.0448	90.3	89.5	1	63.7-134			0.870	20
Ethylbenzene	0.0500	ND	0.0467	0.0463	93.3	92.6	1	67.5-135			0.840	20
Total Xylene	0.150	ND	0.141	0.140	94.2	93.4	1	65.9-138			0.810	20
Methyl tert-butyl ether	0.0500	ND	0.0475	0.0482	95.0	96.4	1	52.4-137			1.47	20
(S) α,α,α-Trifluorotoluene(PID)					*100*	*100*		*55.0-122*				

Method Blank (MB)

(MB) 03/05/16 00:21

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Acrolein	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100

Method Blank (MB)

(MB) 03/05/16 00:21

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
trans-1,3-Dichloropropene	ND		0.00100
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,3-Trimethylbenzene	ND		0.00100
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*101*		*90.0-115*
(S) Dibromofluoromethane	*99.5*		*79.0-121*
(S) 4-Bromofluorobenzene	*92.1*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/04/16 23:10 • (LCSD) 03/04/16 23:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0807	0.0826	64.6	66.1	28.7-175			2.31	20.9
Acrolein	0.125	0.127	0.117	102	93.3	40.4-172			8.53	20
Acrylonitrile	0.125	0.145	0.138	116	111	58.2-145			5.10	20
Benzene	0.0250	0.0261	0.0256	105	103	73.0-122			1.91	20
Bromobenzene	0.0250	0.0226	0.0229	90.5	91.4	81.5-115			1.05	20
Bromodichloromethane	0.0250	0.0236	0.0237	94.2	95.0	75.5-121			0.770	20
Bromoform	0.0250	0.0214	0.0210	85.5	84.0	71.5-131			1.69	20
Bromomethane	0.0250	0.0252	0.0251	101	100	22.4-187			0.610	20
n-Butylbenzene	0.0250	0.0245	0.0244	98.0	97.5	75.9-134			0.510	20
sec-Butylbenzene	0.0250	0.0223	0.0225	89.4	89.8	80.6-126			0.500	20
tert-Butylbenzene	0.0250	0.0226	0.0230	90.4	91.8	79.3-127			1.57	20
Carbon tetrachloride	0.0250	0.0233	0.0229	93.3	91.5	70.9-129			1.90	20
Chlorobenzene	0.0250	0.0228	0.0232	91.3	92.9	79.7-122			1.80	20
Chlorodibromomethane	0.0250	0.0227	0.0226	90.7	90.4	78.2-124			0.300	20
Chloroethane	0.0250	0.0263	0.0258	105	103	41.2-153			1.80	20
2-Chloroethyl vinyl ether	0.125	0.187	0.183	149	147	23.4-162			1.76	23.5
Chloroform	0.0250	0.0247	0.0240	98.8	96.2	73.2-125			2.72	20
Chloromethane	0.0250	0.0266	0.0261	107	104	55.8-134			2.22	20
2-Chlorotoluene	0.0250	0.0225	0.0224	90.0	89.6	76.4-125			0.440	20
4-Chlorotoluene	0.0250	0.0223	0.0228	89.2	91.3	81.5-121			2.29	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0238	0.0236	95.3	94.4	64.8-131			0.900	20
1,2-Dibromoethane	0.0250	0.0227	0.0225	91.0	90.0	79.8-122			1.05	20
Dibromomethane	0.0250	0.0245	0.0245	97.9	98.2	79.5-118			0.310	20
1,2-Dichlorobenzene	0.0250	0.0241	0.0240	96.3	95.9	84.7-118			0.500	20
1,3-Dichlorobenzene	0.0250	0.0209	0.0218	83.8	87.3	77.6-127			4.08	20
1,4-Dichlorobenzene	0.0250	0.0230	0.0233	92.1	93.2	82.2-114			1.11	20
Dichlorodifluoromethane	0.0250	0.0265	0.0251	106	100	56.0-134			5.51	20
1,1-Dichloroethane	0.0250	0.0268	0.0259	107	104	71.7-127			3.32	20
1,2-Dichloroethane	0.0250	0.0249	0.0246	99.8	98.5	65.3-126			1.26	20
1,1-Dichloroethene	0.0250	0.0260	0.0252	104	101	59.9-137			3.21	20
cis-1,2-Dichloroethene	0.0250	0.0249	0.0251	99.7	101	77.3-122			0.860	20
trans-1,2-Dichloroethene	0.0250	0.0241	0.0243	96.3	97.2	72.6-125			0.910	20
1,2-Dichloropropane	0.0250	0.0263	0.0261	105	105	77.4-125			0.540	20
1,1-Dichloropropene	0.0250	0.0263	0.0259	105	104	72.5-127			1.60	20
1,3-Dichloropropane	0.0250	0.0246	0.0250	98.5	99.9	80.6-115			1.44	20
cis-1,3-Dichloropropene	0.0250	0.0252	0.0255	101	102	77.7-124			0.880	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/04/16 23:10 • (LCSD) 03/04/16 23:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0247	0.0248	98.9	99.4	73.5-127			0.490	20
2,2-Dichloropropane	0.0250	0.0224	0.0222	89.4	88.7	61.3-134			0.790	20
Di-isopropyl ether	0.0250	0.0275	0.0276	110	110	65.1-135			0.0600	20
Ethylbenzene	0.0250	0.0236	0.0234	94.5	93.7	80.9-121			0.820	20
Hexachloro-1,3-butadiene	0.0250	0.0222	0.0223	88.8	89.4	73.7-133			0.600	20
Isopropylbenzene	0.0250	0.0216	0.0216	86.3	86.6	81.6-124			0.280	20
p-Isopropyltoluene	0.0250	0.0224	0.0227	89.5	90.9	77.6-129			1.64	20
2-Butanone (MEK)	0.125	0.101	0.101	81.2	80.6	46.4-155			0.720	20
Methylene Chloride	0.0250	0.0248	0.0247	99.2	98.9	69.5-120			0.320	20
4-Methyl-2-pentanone (MIBK)	0.125	0.137	0.132	109	106	63.3-138			3.47	20
Methyl tert-butyl ether	0.0250	0.0249	0.0251	99.4	100	70.1-125			0.940	20
Naphthalene	0.0250	0.0234	0.0229	93.6	91.4	69.7-134			2.36	20
n-Propylbenzene	0.0250	0.0221	0.0223	88.6	89.3	81.9-122			0.810	20
Styrene	0.0250	0.0235	0.0236	93.9	94.4	79.9-124			0.520	20
1,1,1,2-Tetrachloroethane	0.0250	0.0220	0.0222	87.9	88.6	78.5-125			0.860	20
1,1,2,2-Tetrachloroethane	0.0250	0.0221	0.0216	88.5	86.5	79.3-123			2.33	20
Tetrachloroethene	0.0250	0.0219	0.0221	87.7	88.3	73.5-130			0.700	20
Toluene	0.0250	0.0247	0.0247	98.7	98.9	77.9-116			0.150	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0252	0.0245	101	98.2	62.0-141			2.82	20
1,2,3-Trichlorobenzene	0.0250	0.0218	0.0221	87.3	88.4	75.7-134			1.23	20
1,2,4-Trichlorobenzene	0.0250	0.0224	0.0225	89.7	90.2	76.1-136			0.550	20
1,1,1-Trichloroethane	0.0250	0.0243	0.0232	97.1	92.9	71.1-129			4.44	20
1,1,2-Trichloroethane	0.0250	0.0225	0.0232	90.0	92.7	81.6-120			2.96	20
Trichloroethene	0.0250	0.0238	0.0239	95.2	95.4	79.5-121			0.230	20
Trichlorofluoromethane	0.0250	0.0224	0.0215	89.7	86.2	49.1-157			3.98	20
1,2,3-Trichloropropane	0.0250	0.0229	0.0223	91.7	89.1	74.9-124			2.89	20
1,2,3-Trimethylbenzene	0.0250	0.0240	0.0239	96.0	95.5	79.9-118			0.580	20
1,2,4-Trimethylbenzene	0.0250	0.0212	0.0216	84.8	86.4	79.0-122			1.82	20
1,3,5-Trimethylbenzene	0.0250	0.0215	0.0220	86.0	88.0	81.0-123			2.30	20
Vinyl chloride	0.0250	0.0274	0.0260	109	104	61.5-134			5.07	20
Xylenes, Total	0.0750	0.0688	0.0693	91.8	92.4	79.2-122			0.650	20
(S) Toluene-d8				*102*	*103*	*90.0-115*				
(S) Dibromofluoromethane				*101*	*101*	*79.0-121*				
(S) 4-Bromofluorobenzene				*92.1*	*92.9*	*80.1-120*				

L820792-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/05/16 02:22 • (MS) 03/05/16 01:28 • (MSD) 03/05/16 01:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00120	0.0545	0.0530	42.6	41.5	1	25.0-156			2.69	21.5
Acrolein	0.125	ND	0.105	0.102	83.7	81.8	1	34.0-194			2.30	21.5
Acrylonitrile	0.125	ND	0.123	0.124	98.3	99.0	1	55.9-161			0.650	20
Benzene	0.0250	ND	0.0193	0.0193	77.3	77.2	1	58.6-133			0.140	20
Bromobenzene	0.0250	ND	0.0210	0.0201	84.0	80.3	1	70.6-125			4.54	20
Bromodichloromethane	0.0250	ND	0.0209	0.0209	83.6	83.5	1	69.2-127			0.0500	20
Bromoform	0.0250	ND	0.0202	0.0195	81.0	78.1	1	66.3-140			3.63	20
Bromomethane	0.0250	ND	0.0143	0.0130	57.2	52.2	1	16.6-183			9.08	20.5
n-Butylbenzene	0.0250	ND	0.0234	0.0228	93.5	91.1	1	64.8-145			2.65	20
sec-Butylbenzene	0.0250	ND	0.0208	0.0200	83.2	79.8	1	66.8-139			4.16	20
tert-Butylbenzene	0.0250	ND	0.0212	0.0203	84.6	81.2	1	67.1-138			4.08	20
Carbon tetrachloride	0.0250	ND	0.0180	0.0176	72.2	70.4	1	60.6-139			2.44	20
Chlorobenzene	0.0250	ND	0.0204	0.0199	81.4	79.7	1	70.1-130			2.18	20
Chlorodibromomethane	0.0250	ND	0.0210	0.0209	84.0	83.6	1	71.6-132			0.510	20
Chloroethane	0.0250	ND	0.0165	0.0157	66.0	62.8	1	33.3-155			4.99	20
2-Chloroethyl vinyl ether	0.125	ND	0.0127	0.00614	10.2	4.91	1	5.00-149		J3 J6	69.8	40
Chloroform	0.0250	ND	0.0214	0.0211	85.5	84.6	1	66.1-133			1.02	20
Chloromethane	0.0250	ND	0.0128	0.0123	51.2	49.1	1	40.7-139			4.00	20
2-Chlorotoluene	0.0250	ND	0.0206	0.0201	82.5	80.5	1	66.9-134			2.48	20
4-Chlorotoluene	0.0250	ND	0.0211	0.0203	84.3	81.3	1	66.8-134			3.63	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0214	0.0219	85.7	87.5	1	63.9-142			2.17	20.2
1,2-Dibromoethane	0.0250	ND	0.0197	0.0197	78.7	78.7	1	73.8-131			0.0300	20
Dibromomethane	0.0250	ND	0.0206	0.0201	82.3	80.6	1	72.8-127			2.07	20
1,2-Dichlorobenzene	0.0250	ND	0.0227	0.0227	91.0	90.9	1	77.4-127			0.130	20
1,3-Dichlorobenzene	0.0250	ND	0.0209	0.0198	83.5	79.4	1	67.9-136			5.02	20
1,4-Dichlorobenzene	0.0250	ND	0.0218	0.0216	87.1	86.4	1	74.4-123			0.730	20
Dichlorodifluoromethane	0.0250	ND	0.0136	0.0130	54.2	51.9	1	42.2-146			4.45	20
1,1-Dichloroethane	0.0250	ND	0.0218	0.0213	87.3	85.1	1	64.0-134			2.60	20
1,2-Dichloroethane	0.0250	ND	0.0208	0.0202	83.2	80.8	1	60.7-132			2.94	20
1,1-Dichloroethene	0.0250	ND	0.0169	0.0163	67.6	65.2	1	48.8-144			3.63	20
cis-1,2-Dichloroethene	0.0250	ND	0.0199	0.0202	79.5	80.9	1	60.6-136			1.83	20
trans-1,2-Dichloroethene	0.0250	ND	0.0155	0.0153	62.1	61.3	1	61.0-132			1.24	20
1,2-Dichloropropane	0.0250	ND	0.0223	0.0223	89.3	89.3	1	69.7-130			0.0300	20
1,1-Dichloropropene	0.0250	ND	0.0184	0.0179	73.7	71.7	1	61.5-136			2.77	20
1,3-Dichloropropane	0.0250	ND	0.0222	0.0221	88.7	88.4	1	74.3-123			0.360	20
cis-1,3-Dichloropropene	0.0250	ND	0.0211	0.0209	84.6	83.5	1	71.1-129			1.31	20

L820792-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/05/16 02:22 • (MS) 03/05/16 01:28 • (MSD) 03/05/16 01:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0216	0.0217	86.2	86.7	1	66.3-136			0.510	20
2,2-Dichloropropane	0.0250	ND	0.0196	0.0197	78.5	78.6	1	54.9-142			0.140	20
Di-isopropyl ether	0.0250	ND	0.0243	0.0243	97.1	97.3	1	59.9-140			0.230	20
Ethylbenzene	0.0250	ND	0.0199	0.0196	79.5	78.3	1	62.7-136			1.62	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0219	0.0213	87.5	85.3	1	61.1-144			2.56	20.1
Isopropylbenzene	0.0250	ND	0.0193	0.0188	77.3	75.2	1	67.4-136			2.86	20
p-Isopropyltoluene	0.0250	ND	0.0211	0.0202	84.4	80.7	1	62.8-143			4.42	20
2-Butanone (MEK)	0.125	ND	0.0786	0.0772	62.9	61.8	1	45.0-156			1.79	20.8
Methylene Chloride	0.0250	0.000275	0.0186	0.0189	73.1	74.3	1	61.5-125			1.55	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.119	0.117	94.8	93.9	1	60.7-150			1.03	20
Methyl tert-butyl ether	0.0250	ND	0.0221	0.0225	88.3	90.2	1	61.4-136			2.10	20
Naphthalene	0.0250	ND	0.0213	0.0212	85.3	84.9	1	61.8-143			0.450	20
n-Propylbenzene	0.0250	ND	0.0201	0.0194	80.6	77.4	1	63.2-139			4.02	20
Styrene	0.0250	ND	0.0214	0.0208	85.7	83.0	1	68.2-133			3.19	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0210	0.0205	84.2	82.0	1	70.5-132			2.62	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0219	0.0211	87.7	84.5	1	64.9-145			3.75	20
Tetrachloroethene	0.0250	ND	0.0166	0.0167	66.2	66.7	1	57.4-141			0.770	20
Toluene	0.0250	ND	0.0190	0.0188	75.8	75.2	1	67.8-124			0.780	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0195	0.0193	77.8	77.0	1	53.7-150			1.05	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0219	0.0213	87.6	85.4	1	65.7-143			2.64	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0225	0.0218	90.2	87.1	1	67.0-146			3.42	20
1,1,1-Trichloroethane	0.0250	ND	0.0197	0.0193	78.9	77.1	1	58.7-134			2.41	20
1,1,2-Trichloroethane	0.0250	ND	0.0215	0.0212	86.1	85.0	1	74.1-130			1.28	20
Trichloroethene	0.0250	ND	0.0179	0.0177	71.5	71.0	1	48.9-148			0.720	20
Trichlorofluoromethane	0.0250	ND	0.0165	0.0162	65.9	64.8	1	39.9-165			1.71	20
1,2,3-Trichloropropane	0.0250	ND	0.0213	0.0203	85.2	81.3	1	71.5-134			4.64	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0218	0.0215	87.1	86.0	1	62.7-133			1.28	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0197	0.0190	78.8	75.9	1	60.5-137			3.73	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0200	0.0190	79.8	76.2	1	67.9-134			4.70	20
Vinyl chloride	0.0250	ND	0.0146	0.0140	58.2	56.1	1	44.3-143			3.68	20
Xylenes, Total	0.0750	ND	0.0586	0.0576	78.1	76.8	1	65.6-133			1.69	20
(S) Toluene-d8					*101*	*102*		*90.0-115*				
(S) Dibromofluoromethane					*101*	*101*		*79.0-121*				
(S) 4-Bromofluorobenzene					*94.4*	*91.6*		*80.1-120*				

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
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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

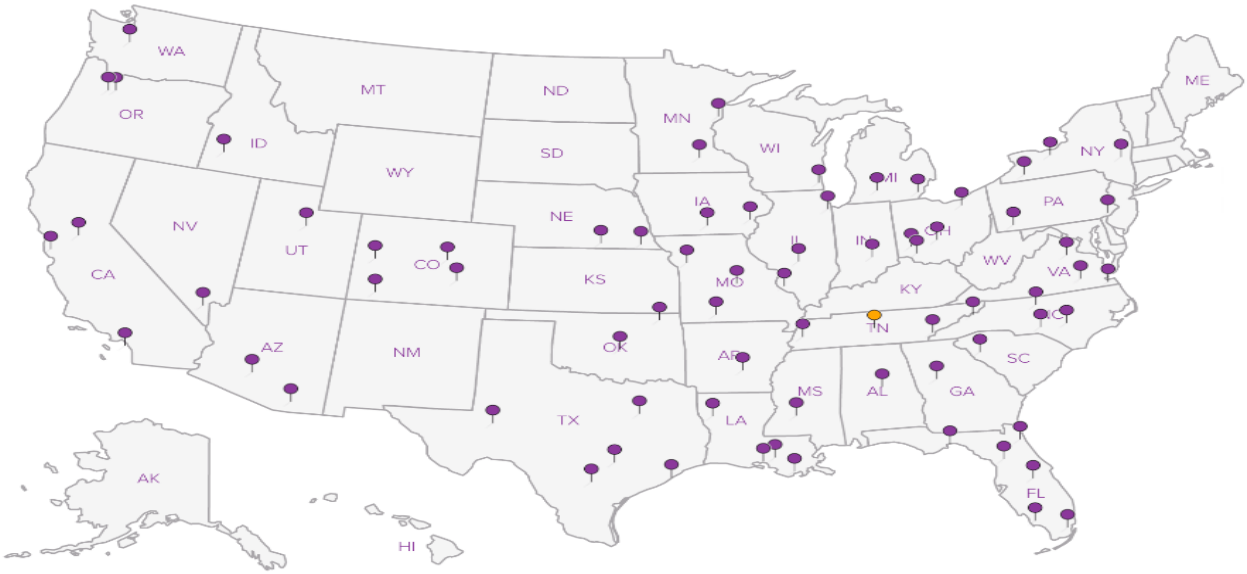
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

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.**



Company Name/Address:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151

Billing Information:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151
GREENENVA120914S

Report to: Trev Greene

Email To: tgreene@greene-environmental.com

Project Description: Meadows of Dan Food Market

City/State Collected: VA

Phone: 540-483-3311
Fax: 540-483-3381

Client Project #: FMMD1007

Lab Project #

Collected by (print): CH

Site/Facility ID #

P.O. #: GREENENVA120914S

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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# L820762
Table # J127
Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via: FEDEX

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX, MTBE via 8021	TPH-GRO via 8015	BTEX, MTBE via Method 18	TVPH via Method 18	Ethanol	pH	VOCs via 8260				Rem./Contaminant	Sample # (lab only)
INF02	Grab	GW		02/26/16	1500	4	X	X										-01
EFF02	Grab	GW		02/26/16	1510	7	X	X			X	X						-02
RCP02	Grab	Air		02/26/16	1450	1			X	X								-03
AS02	Grab	Air		02/26/16	1450	1			X	X								-04
DW19	Grab	GW		02/26/16	1200	4							X					-05
DW22	Grab	GW		02/26/16	1630	4							X					-06

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks: 6617 3614 9837

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Chad Harris	2/29/16	0900	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			M. Fo

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 20

Date: 3-1-16 Time: 9:00

Condition: ok (lab use only) JW7

COC Seal Intact: ____Y ____N ____NA

pH Checked: NCF:

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mr. Trev Greene
Greene Environmental, Inc.
814 South Church Street
Suite 204
Murfreesboro, TN 37129

Report Summary

Wednesday March 09, 2016

Report Number: L821143
Samples Received: 03/03/16
Client Project: FMMD1007

Description: Meadows of Dan Food Market

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: John Hawkins

John Hawkins , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01,1461-02, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Trev Greene
Greene Environmental, Inc.
814 South Church Street
Murfreesboro, TN 37129

March 09, 2016

ESC Sample # : L821143-01

Date Received : March 03, 2016
Description : Meadows of Dan Food Market

Site ID :

Sample ID : INF03

Project # : FMMD1007

Collected By : CH
Collection Date : 03/01/16 13:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	111.	25.0	mg/l	8015D/GRO	03/06/16	250
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8015D/GRO	03/06/16	1
Benzene	0.708	0.250	mg/l	8260B	03/06/16	250
Toluene	14.5	1.25	mg/l	8260B	03/06/16	250
Ethylbenzene	4.00	0.250	mg/l	8260B	03/06/16	250
Total Xylenes	23.8	0.750	mg/l	8260B	03/06/16	250
Methyl tert-butyl ether	2.32	0.250	mg/l	8260B	03/06/16	250
Naphthalene	BDL	1.25	mg/l	8260B	03/06/16	250
Surrogate Recovery						
Toluene-d8	98.8		% Rec.	8260B	03/06/16	1
Dibromofluoromethane	102.		% Rec.	8260B	03/06/16	1
a,a,a-Trifluorotoluene	99.2		% Rec.	8260B	03/06/16	1
4-Bromofluorobenzene	103.		% Rec.	8260B	03/06/16	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Fax (615) 758-5859

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REPORT OF ANALYSIS

Mr. Trev Greene
Greene Environmental, Inc.
814 South Church Street
Murfreesboro, TN 37129

March 09, 2016

ESC Sample # : L821143-02

Site ID :

Project # : FMMD1007

Date Received : March 03, 2016
Description : Meadows of Dan Food Market

Sample ID : EFF03

Collected By : CH
Collection Date : 03/01/16 14:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.100	mg/l	8015D/GRO	03/06/16	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8015D/GRO	03/06/16	1
Benzene	BDL	0.00100	mg/l	8260B	03/06/16	1
Toluene	BDL	0.00500	mg/l	8260B	03/06/16	1
Ethylbenzene	BDL	0.00100	mg/l	8260B	03/06/16	1
Total Xylenes	BDL	0.00300	mg/l	8260B	03/06/16	1
Methyl tert-butyl ether	0.0326	0.00100	mg/l	8260B	03/06/16	1
Naphthalene	BDL	0.00500	mg/l	8260B	03/06/16	1
Surrogate Recovery						
Toluene-d8	96.9		% Rec.	8260B	03/06/16	1
Dibromofluoromethane	102.		% Rec.	8260B	03/06/16	1
a,a,a-Trifluorotoluene	98.8		% Rec.	8260B	03/06/16	1
4-Bromofluorobenzene	103.		% Rec.	8260B	03/06/16	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Mr. Trev Greene
Greene Environmental, Inc.
814 South Church Street
Murfreesboro, TN 37129

March 09, 2016

ESC Sample # : L821143-03

Site ID :

Project # : FMMD1007

Date Received : March 03, 2016
Description : Meadows of Dan Food Market

Sample ID : RCP03

Collected By : CH
Collection Date : 03/01/16 14:15

Parameter	Mol Wght	RDL(ppmv)	Result(ppmv)	mg/m3	Method	Date	Dil.
Benzene	78.1	16.0	0.511	1.63	M18-Mod	03/08/16	80
Toluene	92.1	16.0	3.67	13.8	M18-Mod	03/08/16	80
Ethylbenzene	106	16.0	0.928	4.02	M18-Mod	03/08/16	80
m&p-Xylene	106	32.0	3.24	14.0	M18-Mod	03/08/16	80
o-Xylene	106	16.0	1.66	7.20	M18-Mod	03/08/16	80
Methyl tert-butyl ether	88.1	16.0	2.00	7.21	M18-Mod	03/08/16	80
TPH (GC/MS) Low Fraction	101	4000	31.9	132.	M18-Mod	03/08/16	80
1,4-Bromofluorobenzene			105.	% Rec.	M18-Mod	03/08/16	1

RDL - Reported Detection Limit
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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REPORT OF ANALYSIS

Mr. Trev Greene
Greene Environmental, Inc.
814 South Church Street
Murfreesboro, TN 37129

March 09, 2016

ESC Sample # : L821143-04

Site ID :

Project # : FMMD1007

Date Received : March 03, 2016
Description : Meadows of Dan Food Market

Sample ID : AS03

Collected By : CH
Collection Date : 03/01/16 14:10

Parameter	Mol Wght	RDL(ppmv)	Result(ppmv)	mg/m3	Method	Date	Dil.
Benzene	78.1	400.	12.1	38.7	M18-Mod	03/08/16	2000
Toluene	92.1	3200	96.6	364.	M18-Mod	03/09/16	16000
Ethylbenzene	106	400.	18.2	78.9	M18-Mod	03/08/16	2000
m&p-Xylene	106	800.	54.2	235.	M18-Mod	03/08/16	2000
o-Xylene	106	400.	19.3	83.7	M18-Mod	03/08/16	2000
Methyl tert-butyl ether	88.1	400.	6.05	21.8	M18-Mod	03/08/16	2000
TPH (GC/MS) Low Fraction	101	100000	1340	5540	M18-Mod	03/08/16	2000
1,4-Bromofluorobenzene			101.	% Rec.	M18-Mod	03/08/16	1

RDL - Reported Detection Limit
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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.
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L821143-02	WG854249	SAMP	TPH (GC/FID) Low Fraction	R3119172	J6

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Quality Assurance Report
Level II

L821143

March 09, 2016

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .001	mg/l			WG854189	03/06/16 01:17
Ethylbenzene	< .001	mg/l			WG854189	03/06/16 01:17
Methyl tert-butyl ether	< .001	mg/l			WG854189	03/06/16 01:17
Naphthalene	< .005	mg/l			WG854189	03/06/16 01:17
Toluene	< .005	mg/l			WG854189	03/06/16 01:17
Total Xylenes	< .003	mg/l			WG854189	03/06/16 01:17
4-Bromofluorobenzene		% Rec.	103.0	80.1-120	WG854189	03/06/16 01:17
Dibromofluoromethane		% Rec.	101.0	79-121	WG854189	03/06/16 01:17
Toluene-d8		% Rec.	97.90	90-115	WG854189	03/06/16 01:17
a,a,a-Trifluorotoluene		% Rec.	97.70	90.4-116	WG854189	03/06/16 01:17
TPH (GC/FID) Low Fraction	< .1	mg/l			WG854249	03/06/16 18:47
a,a,a-Trifluorotoluene(FID)		% Rec.	102.0	62-128	WG854249	03/06/16 18:47
Benzene	< .2	ppbv			WG854622	03/08/16 10:17
Ethylbenzene	< .2	ppbv			WG854622	03/08/16 10:17
m&p-Xylene	< .4	ppbv			WG854622	03/08/16 10:17
Methyl tert-butyl ether	< .2	ppbv			WG854622	03/08/16 10:17
o-Xylene	< .2	ppbv			WG854622	03/08/16 10:17
Toluene	< .2	ppbv			WG854622	03/08/16 10:17
TPH (GC/MS) Low Fraction	< 50	ppbv			WG854622	03/08/16 10:17
1,4-Bromofluorobenzene		% Rec.	96.20	60-140	WG854622	03/08/16 10:17
Toluene	< .2	ppb			WG854924	03/09/16 10:32
1,4-Bromofluorobenzene		% Rec.	98.90	60-140	WG854924	03/09/16 10:32

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Benzene	mg/l	.025	0.0221	88.6	73-122	WG854189
Ethylbenzene	mg/l	.025	0.0246	98.5	80.9-121	WG854189
Methyl tert-butyl ether	mg/l	.025	0.0233	93.1	70.1-125	WG854189
Naphthalene	mg/l	.025	0.0240	95.9	69.7-134	WG854189
Toluene	mg/l	.025	0.0227	90.8	77.9-116	WG854189
Total Xylenes	mg/l	.075	0.0732	97.7	79.2-122	WG854189
4-Bromofluorobenzene				100.0	80.1-120	WG854189
Dibromofluoromethane				99.60	79-121	WG854189
Toluene-d8				98.70	90-115	WG854189
a,a,a-Trifluorotoluene				98.80	90.4-116	WG854189
TPH (GC/FID) Low Fraction	mg/l	5.5	5.18	94.1	67-132	WG854249
a,a,a-Trifluorotoluene(FID)				103.0	62-128	WG854249
Benzene	ppbv	3.75	4.69	125.	70-130	WG854622
Ethylbenzene	ppbv	3.75	4.70	125.	70-130	WG854622
m&p-Xylene	ppbv	7.5	9.28	124.	70-130	WG854622
Methyl tert-butyl ether	ppbv	3.75	4.55	121.	70-130	WG854622
o-Xylene	ppbv	3.75	4.68	125.	70-130	WG854622
Toluene	ppbv	3.75	4.81	128.	70-130	WG854622
TPH (GC/MS) Low Fraction	ppbv	150	174.	116.	70-130	WG854622
1,4-Bromofluorobenzene				103.0	60-140	WG854622
Toluene	ppb	3.75	4.34	116.	70-130	WG854924

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Mr. Trev Greene
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Quality Assurance Report
Level II

L821143

March 09, 2016

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,4-Bromofluorobenzene					103.0		60-140	

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/l	0.0231	0.0221	92.0	73-122	4.03	20	WG854189
Ethylbenzene	mg/l	0.0253	0.0246	101.	80.9-121	2.49	20	WG854189
Methyl tert-butyl ether	mg/l	0.0235	0.0233	94.0	70.1-125	1.12	20	WG854189
Naphthalene	mg/l	0.0254	0.0240	102.	69.7-134	5.94	20	WG854189
Toluene	mg/l	0.0235	0.0227	94.0	77.9-116	3.31	20	WG854189
Total Xylenes	mg/l	0.0761	0.0732	101.	79.2-122	3.85	20	WG854189
4-Bromofluorobenzene				102.0	80.1-120			WG854189
Dibromofluoromethane				100.0	79-121			WG854189
Toluene-d8				99.30	90-115			WG854189
a,a,a-Trifluorotoluene				100.0	90.4-116			WG854189
TPH (GC/FID) Low Fraction	mg/l	5.08	5.18	92.0	67-132	1.96	20	WG854249
a,a,a-Trifluorotoluene(FID)				102.0	62-128			WG854249
Benzene	ppbv	4.74	4.69	126.	70-130	1.06	25	WG854622
Ethylbenzene	ppbv	4.70	4.70	125.	70-130	0.0600	25	WG854622
m&p-Xylene	ppbv	9.29	9.28	124.	70-130	0.180	25	WG854622
Methyl tert-butyl ether	ppbv	4.65	4.55	124.	70-130	2.12	25	WG854622
o-Xylene	ppbv	4.72	4.68	126.	70-130	0.750	25	WG854622
Toluene	ppbv	4.88	4.81	130.	70-130	1.42	25	WG854622
TPH (GC/MS) Low Fraction	ppbv	175.	174.	117.	70-130	0.450	25	WG854622
1,4-Bromofluorobenzene				102.0	60-140			WG854622
Toluene	ppb	4.45	4.34	119.	70-130	2.65	25	WG854924
1,4-Bromofluorobenzene				96.60	60-140			WG854924

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/l	6.25	5.67	.025	23.4*	58.6-133	L820294-02	WG854189
Ethylbenzene	mg/l	1.86	0.117	.025	69.8	62.7-136	L820294-02	WG854189
Methyl tert-butyl ether	mg/l	2.86	0.991	.025	74.7	61.4-136	L820294-02	WG854189
Naphthalene	mg/l	2.21	0.187	.025	81.1	61.8-143	L820294-02	WG854189
Toluene	mg/l	1.52	0.0343	.025	59.6*	67.8-124	L820294-02	WG854189
Total Xylenes	mg/l	5.39	0.132	.075	70.1	65.6-133	L820294-02	WG854189
4-Bromofluorobenzene					98.70	80.1-120		WG854189
Dibromofluoromethane					101.0	79-121		WG854189
Toluene-d8					98.70	90-115		WG854189
a,a,a-Trifluorotoluene					100.0	90.4-116		WG854189
TPH (GC/FID) Low Fraction	mg/l	2.79	0.0805	5.5	49.3*	50-143	L821143-02	WG854249
a,a,a-Trifluorotoluene(FID)					102.0	62-128		WG854249

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/l	6.46	6.25	31.7*	58.6-133	3.24	20	L820294-02	WG854189
Ethylbenzene	mg/l	1.95	1.86	73.4	62.7-136	4.75	20	L820294-02	WG854189
Methyl tert-butyl ether	mg/l	2.96	2.86	78.9	61.4-136	3.61	20	L820294-02	WG854189
Naphthalene	mg/l	2.41	2.21	88.9	61.8-143	8.49	20	L820294-02	WG854189

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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814 South Church Street
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Murfreesboro, TN 37129

Quality Assurance Report
Level II

L821143

March 09, 2016

Analyte	Units	MSD	Matrix Spike Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Toluene	mg/l	1.61	1.52	63.0*	67.8-124	5.45	20	L820294-02	WG854189
Total Xylenes	mg/l	5.70	5.39	74.3	65.6-133	5.66	20	L820294-02	WG854189
4-Bromofluorobenzene				102.0	80.1-120				WG854189
Dibromofluoromethane				101.0	79-121				WG854189
Toluene-d8				99.90	90-115				WG854189
a,a,a-Trifluorotoluene				100.0	90.4-116				WG854189
TPH (GC/FID) Low Fraction	mg/l	2.92	2.79	51.5	50-143	4.40	20	L821143-02	WG854249
a,a,a-Trifluorotoluene(FID)				101.0	62-128				WG854249

Batch number /Run number / Sample number cross reference

WG854189: R3118614: L821143-01 02
WG854249: R3119172: L821143-01 02
WG854622: R3119246: L821143-03 04
WG854924: R3119394: L821143-04

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

Company Name/Address:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151

Billing Information:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151
GREENENVA120914S

Report to: Trev Greene

Email To: tgreene@greene-environmental.com

Project Description: Meadows of Dan Food Market

City/State Collected: VA

Phone: 540-483-3311
Fax: 540-483-3381

Client Project #: FMMD1007

Lab Project #

Collected by (print): CH

Site/Facility ID #

P.O. #: GREENENVA120914S

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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YOUR LAB OF CHOICE
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L820629 AU
I103 L821143

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via: FEDEX

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX, MTBE, Naphthalene via 8021	TPH-GRO via 8015	BTEX, MTBE via Method 18	TVPH via Method 18							Rem./Contaminant	Sample # (lab only)
INF03	Grab	GW		03/01/16	1355	4	X	X										-01
EFF03	Grab	GW		03/01/16	1400	4	X	X										02
RCP03	Grab	Air		03/01/16	1415	1			X	X								03
AS03	Grab	Air		03/01/16	1410	1			X	X								04

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

6617 3614 9695

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Caleb Harrison	3/2/16	0900	
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: 3.6 °C Bottles Received: 10

Date: 3.3.16 Time: 0900

Condition: (lab use only) ok JW7

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

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Quality Assurance Report
Level II

L821143

March 09, 2016

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

ANALYTICAL REPORT

March 15, 2016

Greene Env. Services, LLC

Sample Delivery Group:	L822155
Samples Received:	03/09/2016
Project Number:	FMMD1007
Description:	The Meadows of Dan Food Market
Report To:	Mr. Adam Flora 129 Bunny Ridge Lane Rocky Mount, VA 24151

Entire Report Reviewed By:

Terrie Fudge
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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INF04 L822155-01 GW

Collected by: CH | Collected date/time: 03/07/16 13:55 | Received date/time: 03/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG855915	200	03/12/16 15:14	03/12/16 15:14	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG855165	500	03/10/16 19:12	03/10/16 19:12	DAH

EFF04 L822155-02 GW

Collected by: CH | Collected date/time: 03/07/16 14:00 | Received date/time: 03/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG854947	1	03/10/16 19:29	03/10/16 19:29	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG855165	1	03/10/16 19:29	03/10/16 19:29	DAH

RCP04 L822155-03 Air

Collected by: CH | Collected date/time: 03/07/16 10:45 | Received date/time: 03/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG855622	800	03/12/16 19:14	03/12/16 19:14	MBF
Volatile Organic Compounds (MS) by Method M18-Mod	WG856093	8000	03/14/16 20:03	03/14/16 20:03	MBF

AS04 L822155-04 Air

Collected by: CH | Collected date/time: 03/07/16 10:48 | Received date/time: 03/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG855622	25	03/12/16 19:54	03/12/16 19:54	MBF
Volatile Organic Compounds (MS) by Method M18-Mod	WG856093	200	03/14/16 20:46	03/14/16 20:46	MBF

DW17 L822155-05 GW

Collected by: CH | Collected date/time: 03/07/16 13:45 | Received date/time: 03/09/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG855451	1	03/10/16 23:44	03/10/16 23:44	JHH

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.

Terrie Fudge

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Technical Service Representative

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	79.6		20.0	200	03/12/2016 15:14	WG855915
(S) α,α,α-Trifluorotoluene(FID)	*102*		*62.0-128*		*03/12/2016 15:14*	WG855915

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.602		0.500	500	03/10/2016 19:12	WG855165
Toluene	8.43		2.50	500	03/10/2016 19:12	WG855165
Ethylbenzene	2.42		0.500	500	03/10/2016 19:12	WG855165
Total Xylenes	14.4		1.50	500	03/10/2016 19:12	WG855165
Methyl tert-butyl ether	1.95		0.500	500	03/10/2016 19:12	WG855165
Naphthalene	ND		2.50	500	03/10/2016 19:12	WG855165
(S) Toluene-d8	*103*		*90.0-115*		*03/10/2016 19:12*	WG855165
(S) Dibromofluoromethane	*101*		*79.0-121*		*03/10/2016 19:12*	WG855165
(S) α,α,α-Trifluorotoluene	*102*		*90.4-116*		*03/10/2016 19:12*	WG855165
(S) 4-Bromofluorobenzene	*104*		*80.1-120*		*03/10/2016 19:12*	WG855165

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.117	J6	0.100	1	03/10/2016 19:29	WG854947
(S) α,α,α-Trifluorotoluene(FID)	*98.2*		*62.0-128*		*03/10/2016 19:29*	WG854947

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	03/10/2016 19:29	WG855165
Toluene	ND		0.00500	1	03/10/2016 19:29	WG855165
Ethylbenzene	ND		0.00100	1	03/10/2016 19:29	WG855165
Total Xylenes	ND		0.00300	1	03/10/2016 19:29	WG855165
Methyl tert-butyl ether	0.0684		0.00100	1	03/10/2016 19:29	WG855165
Naphthalene	ND		0.00500	1	03/10/2016 19:29	WG855165
(S) Toluene-d8	*103*		*90.0-115*		*03/10/2016 19:29*	WG855165
(S) Dibromofluoromethane	*101*		*79.0-121*		*03/10/2016 19:29*	WG855165
(S) α,α,α-Trifluorotoluene	*104*		*90.4-116*		*03/10/2016 19:29*	WG855165
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*03/10/2016 19:29*	WG855165

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	160	511	6390	20400		800	WG855622
Toluene	108-88-3	92.10	1600	6030	77300	291000		8000	WG856093
Ethylbenzene	100-41-4	106	160	694	7710	33400		800	WG855622
m&p-Xylene	1330-20-7	106	320	1390	22300	96600		800	WG855622
o-Xylene	95-47-6	106	160	694	8020	34800		800	WG855622
Methyl tert-butyl ether	1634-04-4	88.10	160	577	2840	10200		800	WG855622
TPH (GC/MS) Low Fraction	8006-61-9	101	40000	165000	490000	2030000		800	WG855622
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*94.2*				WG855622

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	5.00	16.0	852	2720		25	WG855622
Toluene	108-88-3	92.10	40.0	151	7260	27300		200	WG856093
Ethylbenzene	100-41-4	106	5.00	21.7	999	4330		25	WG855622
m&p-Xylene	1330-20-7	106	10.0	43.4	2170	9420		25	WG855622
o-Xylene	95-47-6	106	40.0	173	2110	9130		200	WG856093
Methyl tert-butyl ether	1634-04-4	88.10	40.0	144	5610	20200		200	WG856093
TPH (GC/MS) Low Fraction	8006-61-9	101	1250	5160	19300	79500		25	WG855622
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*91.2*				WG855622

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	03/10/2016 23:44	WG855451
Acrolein	ND		0.0500	1	03/10/2016 23:44	WG855451
Acrylonitrile	ND		0.0100	1	03/10/2016 23:44	WG855451
Benzene	ND		0.00100	1	03/10/2016 23:44	WG855451
Bromobenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
Bromodichloromethane	ND		0.00100	1	03/10/2016 23:44	WG855451
Bromoform	ND		0.00100	1	03/10/2016 23:44	WG855451
Bromomethane	ND		0.00500	1	03/10/2016 23:44	WG855451
n-Butylbenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
sec-Butylbenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
tert-Butylbenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
Carbon tetrachloride	ND		0.00100	1	03/10/2016 23:44	WG855451
Chlorobenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
Chlorodibromomethane	ND		0.00100	1	03/10/2016 23:44	WG855451
Chloroethane	ND		0.00500	1	03/10/2016 23:44	WG855451
2-Chloroethyl vinyl ether	ND	J3 J6	0.0500	1	03/10/2016 23:44	WG855451
Chloroform	ND		0.00500	1	03/10/2016 23:44	WG855451
Chloromethane	ND		0.00250	1	03/10/2016 23:44	WG855451
2-Chlorotoluene	ND		0.00100	1	03/10/2016 23:44	WG855451
4-Chlorotoluene	ND		0.00100	1	03/10/2016 23:44	WG855451
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	03/10/2016 23:44	WG855451
1,2-Dibromoethane	ND		0.00100	1	03/10/2016 23:44	WG855451
Dibromomethane	ND		0.00100	1	03/10/2016 23:44	WG855451
1,2-Dichlorobenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
1,3-Dichlorobenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
1,4-Dichlorobenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
Dichlorodifluoromethane	ND		0.00500	1	03/10/2016 23:44	WG855451
1,1-Dichloroethane	ND		0.00100	1	03/10/2016 23:44	WG855451
1,2-Dichloroethane	ND		0.00100	1	03/10/2016 23:44	WG855451
1,1-Dichloroethene	ND		0.00100	1	03/10/2016 23:44	WG855451
cis-1,2-Dichloroethene	ND		0.00100	1	03/10/2016 23:44	WG855451
trans-1,2-Dichloroethene	ND		0.00100	1	03/10/2016 23:44	WG855451
1,2-Dichloropropane	ND		0.00100	1	03/10/2016 23:44	WG855451
1,1-Dichloropropene	ND		0.00100	1	03/10/2016 23:44	WG855451
1,3-Dichloropropane	ND		0.00100	1	03/10/2016 23:44	WG855451
cis-1,3-Dichloropropene	ND		0.00100	1	03/10/2016 23:44	WG855451
trans-1,3-Dichloropropene	ND		0.00100	1	03/10/2016 23:44	WG855451
2,2-Dichloropropane	ND		0.00100	1	03/10/2016 23:44	WG855451
Di-isopropyl ether	ND		0.00100	1	03/10/2016 23:44	WG855451
Ethylbenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
Hexachloro-1,3-butadiene	ND		0.00100	1	03/10/2016 23:44	WG855451
Isopropylbenzene	ND	J4	0.00100	1	03/10/2016 23:44	WG855451
p-Isopropyltoluene	ND		0.00100	1	03/10/2016 23:44	WG855451
2-Butanone (MEK)	ND		0.0100	1	03/10/2016 23:44	WG855451
Methylene Chloride	ND		0.00500	1	03/10/2016 23:44	WG855451
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	03/10/2016 23:44	WG855451
Methyl tert-butyl ether	ND		0.00100	1	03/10/2016 23:44	WG855451
Naphthalene	ND		0.00500	1	03/10/2016 23:44	WG855451
n-Propylbenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
Styrene	ND		0.00100	1	03/10/2016 23:44	WG855451
1,1,1,2-Tetrachloroethane	ND		0.00100	1	03/10/2016 23:44	WG855451
1,1,2,2-Tetrachloroethane	ND		0.00100	1	03/10/2016 23:44	WG855451
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	03/10/2016 23:44	WG855451
Tetrachloroethene	ND		0.00100	1	03/10/2016 23:44	WG855451
Toluene	ND		0.00500	1	03/10/2016 23:44	WG855451
1,2,3-Trichlorobenzene	ND		0.00100	1	03/10/2016 23:44	WG855451

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
1,1,1-Trichloroethane	ND		0.00100	1	03/10/2016 23:44	WG855451
1,1,2-Trichloroethane	ND		0.00100	1	03/10/2016 23:44	WG855451
Trichloroethene	ND		0.00100	1	03/10/2016 23:44	WG855451
Trichlorofluoromethane	ND		0.00500	1	03/10/2016 23:44	WG855451
1,2,3-Trichloropropane	ND		0.00250	1	03/10/2016 23:44	WG855451
1,2,4-Trimethylbenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
1,2,3-Trimethylbenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
1,3,5-Trimethylbenzene	ND		0.00100	1	03/10/2016 23:44	WG855451
Vinyl chloride	ND		0.00100	1	03/10/2016 23:44	WG855451
Xylenes, Total	ND		0.00300	1	03/10/2016 23:44	WG855451
(S) Toluene-d8	*102*		*90.0-115*		*03/10/2016 23:44*	WG855451
(S) Dibromofluoromethane	*103*		*79.0-121*		*03/10/2016 23:44*	WG855451
(S) 4-Bromofluorobenzene	*88.7*		*80.1-120*		*03/10/2016 23:44*	WG855451

Method Blank (MB)

(MB) 03/12/16 09:22

Analyte	MB Result ppbv	MB Qualifier	MB RDL ppbv
Benzene	ND		0.200
Ethylbenzene	ND		0.200
MTBE	ND		0.200
m&p-Xylene	ND		0.400
o-Xylene	ND		0.200
TPH (GC/MS) Low Fraction	ND		50.0
(S) 1,4-Bromofluorobenzene	*91.3*		*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/12/16 07:51 • (LCSD) 03/12/16 08:35

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.45	3.65	91.9	97.3	70.0-130			5.71	25
Benzene	3.75	3.77	3.76	101	100	70.0-130			0.190	25
Ethylbenzene	3.75	3.83	3.78	102	101	70.0-130			1.44	25
m&p-Xylene	7.50	7.55	7.42	101	98.9	70.0-130			1.79	25
o-Xylene	3.75	3.85	3.79	103	101	70.0-130			1.51	25
TPH (GC/MS) Low Fraction	150	153	151	102	101	70.0-130			1.21	25
(S) 1,4-Bromofluorobenzene				*98.2*	*96.2*	*60.0-140*				

Method Blank (MB)

(MB) 03/14/16 09:16

Analyte	MB Result ppbv	MB Qualifier	MB RDL ppbv
MTBE	ND		0.200
Toluene	ND		0.200
o-Xylene	ND		0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/14/16 07:48 • (LCSD) 03/14/16 08:32

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	4.03	4.50	107	120	70.0-130			11.0	25
Toluene	3.75	4.32	4.43	115	118	70.0-130			2.57	25
o-Xylene	3.75	4.31	4.42	115	118	70.0-130			2.32	25

Method Blank (MB)

(MB) 03/10/16 17:41

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
TPH (GC/FID) Low Fraction	ND		0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.1*		*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 16:31 • (LCSD) 03/10/16 16:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.66	5.76	103	105	67.0-132			1.78	20
(S) a,a,a-Trifluorotoluene(FID)				*100*	*97.8*	*62.0-128*				

L822155-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 19:29 • (MS) 03/10/16 18:18 • (MSD) 03/10/16 18:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.117	2.51	2.75	43.4	47.8	1	50.0-143	J6	J6	9.22	20
(S) a,a,a-Trifluorotoluene(FID)					*90.6*	*97.1*		*62.0-128*				

Method Blank (MB)

(MB) 03/12/16 14:06

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
TPH (GC/FID) Low Fraction	ND		0.100
(S) α,α,α-Trifluorotoluene(FID)	*101*		*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/12/16 12:59 • (LCSD) 03/12/16 13:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.03	6.18	110	112	67.0-132			2.53	20
(S) α,α,α-Trifluorotoluene(FID)				*99.0*	*98.9*	*62.0-128*				

L822489-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/12/16 15:59 • (MS) 03/12/16 17:05 • (MSD) 03/12/16 17:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	2.67	7.71	7.80	91.6	93.3	1	50.0-143			1.19	20
(S) α,α,α-Trifluorotoluene(FID)					*106*	*106*		*62.0-128*				

Method Blank (MB)

(MB) 03/10/16 13:51

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Benzene	ND		0.00100
Ethylbenzene	ND		0.00100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
Toluene	ND		0.00500
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*103*		*90.0-115*
(S) Dibromofluoromethane	*98.0*		*79.0-121*
(S) α,α,α-Trifluorotoluene	*103*		*90.4-116*
(S) 4-Bromofluorobenzene	*103*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 12:41 • (LCSD) 03/10/16 12:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0273	0.0263	109	105	73.0-122			3.91	20
Ethylbenzene	0.0250	0.0259	0.0251	104	100	80.9-121			3.11	20
Methyl tert-butyl ether	0.0250	0.0226	0.0199	90.3	79.6	70.1-125			12.6	20
Naphthalene	0.0250	0.0255	0.0222	102	88.7	69.7-134			14.0	20
Toluene	0.0250	0.0251	0.0245	101	97.9	77.9-116			2.70	20
Xylenes, Total	0.0750	0.0768	0.0733	102	97.7	79.2-122			4.71	20
(S) Toluene-d8				*104*	*104*	*90.0-115*				
(S) Dibromofluoromethane				*101*	*102*	*79.0-121*				
(S) α,α,α-Trifluorotoluene				*103*	*102*	*90.4-116*				
(S) 4-Bromofluorobenzene				*103*	*97.2*	*80.1-120*				

L822155-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 19:29 • (MS) 03/10/16 19:46 • (MSD) 03/10/16 20:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	ND	0.0234	0.0232	93.5	92.9	1	58.6-133			0.580	20
Ethylbenzene	0.0250	ND	0.0228	0.0224	91.3	89.5	1	62.7-136			2.00	20
Methyl tert-butyl ether	0.0250	0.0684	0.0951	0.0926	107	96.5	1	61.4-136			2.67	20

L822155-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 19:29 • (MS) 03/10/16 19:46 • (MSD) 03/10/16 20:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.000276	0.0224	0.0241	88.6	95.1	1	61.8-143			6.95	20
Toluene	0.0250	ND	0.0223	0.0222	89.2	88.9	1	67.8-124			0.340	20
Xylenes, Total	0.0750	0.000182	0.0675	0.0650	89.7	86.5	1	65.6-133			3.67	20
(S) Toluene-d8					*103*	*104*		*90.0-115*				
(S) Dibromofluoromethane					*103*	*104*		*79.0-121*				
(S) α,α,α-Trifluorotoluene					*104*	*102*		*90.4-116*				
(S) 4-Bromofluorobenzene					*101*	*98.1*		*80.1-120*				

Method Blank (MB)

(MB) 03/10/16 22:16

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Acrolein	ND		0.0500
Acrylonitrile	ND		0.0100
Benzene	ND		0.00100
Bromobenzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
n-Butylbenzene	ND		0.00100
sec-Butylbenzene	ND		0.00100
tert-Butylbenzene	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
2-Chloroethyl vinyl ether	ND		0.0500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
2-Chlorotoluene	ND		0.00100
4-Chlorotoluene	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
Dibromomethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
1,1-Dichloropropene	ND		0.00100
1,3-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100

Method Blank (MB)

(MB) 03/10/16 22:16

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
trans-1,3-Dichloropropene	ND		0.00100
2,2-Dichloropropane	ND		0.00100
Di-isopropyl ether	ND		0.00100
Ethylbenzene	ND		0.00100
Hexachloro-1,3-butadiene	ND		0.00100
Isopropylbenzene	ND		0.00100
p-Isopropyltoluene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100
Naphthalene	ND		0.00500
n-Propylbenzene	ND		0.00100
Styrene	ND		0.00100
1,1,1,2-Tetrachloroethane	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
1,2,3-Trichloropropane	ND		0.00250
1,2,3-Trimethylbenzene	ND		0.00100
1,2,4-Trimethylbenzene	ND		0.00100
1,3,5-Trimethylbenzene	ND		0.00100
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*103*		*90.0-115*
(S) Dibromofluoromethane	*102*		*79.0-121*
(S) 4-Bromofluorobenzene	*89.5*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 21:04 • (LCSD) 03/10/16 21:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0865	0.0801	69.2	64.1	28.7-175			7.64	20.9
Acrolein	0.125	0.0954	0.0895	76.3	71.6	40.4-172			6.33	20
Acrylonitrile	0.125	0.145	0.136	116	109	58.2-145			6.31	20
Benzene	0.0250	0.0253	0.0258	101	103	73.0-122			1.79	20
Bromobenzene	0.0250	0.0223	0.0228	89.3	91.3	81.5-115			2.24	20
Bromodichloromethane	0.0250	0.0239	0.0236	95.7	94.4	75.5-121			1.36	20
Bromoform	0.0250	0.0218	0.0213	87.0	85.2	71.5-131			2.11	20
Bromomethane	0.0250	0.0226	0.0240	90.4	96.1	22.4-187			6.13	20
n-Butylbenzene	0.0250	0.0233	0.0244	93.2	97.6	75.9-134			4.58	20
sec-Butylbenzene	0.0250	0.0209	0.0220	83.8	88.1	80.6-126			5.00	20
tert-Butylbenzene	0.0250	0.0208	0.0221	83.3	88.4	79.3-127			5.96	20
Carbon tetrachloride	0.0250	0.0220	0.0224	88.0	89.7	70.9-129			1.89	20
Chlorobenzene	0.0250	0.0228	0.0234	91.4	93.7	79.7-122			2.54	20
Chlorodibromomethane	0.0250	0.0229	0.0230	91.4	92.1	78.2-124			0.700	20
Chloroethane	0.0250	0.0240	0.0251	96.2	100	41.2-153			4.22	20
2-Chloroethyl vinyl ether	0.125	0.188	0.181	151	144	23.4-162			4.19	23.5
Chloroform	0.0250	0.0239	0.0240	95.5	96.2	73.2-125			0.680	20
Chloromethane	0.0250	0.0217	0.0220	86.6	88.1	55.8-134			1.67	20
2-Chlorotoluene	0.0250	0.0222	0.0232	88.9	92.8	76.4-125			4.22	20
4-Chlorotoluene	0.0250	0.0221	0.0229	88.3	91.6	81.5-121			3.74	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0231	0.0218	92.2	87.3	64.8-131			5.43	20
1,2-Dibromoethane	0.0250	0.0229	0.0229	91.6	91.5	79.8-122			0.0200	20
Dibromomethane	0.0250	0.0245	0.0237	98.0	94.6	79.5-118			3.49	20
1,2-Dichlorobenzene	0.0250	0.0231	0.0233	92.5	93.3	84.7-118			0.780	20
1,3-Dichlorobenzene	0.0250	0.0208	0.0215	83.3	86.0	77.6-127			3.14	20
1,4-Dichlorobenzene	0.0250	0.0222	0.0233	88.6	93.1	82.2-114			4.94	20
Dichlorodifluoromethane	0.0250	0.0156	0.0155	62.3	61.9	56.0-134			0.770	20
1,1-Dichloroethane	0.0250	0.0259	0.0264	103	106	71.7-127			2.12	20
1,2-Dichloroethane	0.0250	0.0246	0.0242	98.6	96.8	65.3-126			1.80	20
1,1-Dichloroethene	0.0250	0.0251	0.0249	101	99.6	59.9-137			1.00	20
cis-1,2-Dichloroethene	0.0250	0.0246	0.0248	98.3	99.1	77.3-122			0.870	20
trans-1,2-Dichloroethene	0.0250	0.0238	0.0240	95.0	96.0	72.6-125			1.04	20
1,2-Dichloropropane	0.0250	0.0263	0.0267	105	107	77.4-125			1.74	20
1,1-Dichloropropene	0.0250	0.0253	0.0262	101	105	72.5-127			3.29	20
1,3-Dichloropropane	0.0250	0.0251	0.0250	100	100	80.6-115			0.510	20
cis-1,3-Dichloropropene	0.0250	0.0256	0.0253	103	101	77.7-124			1.52	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 03/10/16 21:04 • (LCSD) 03/10/16 21:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0253	0.0248	101	99.0	73.5-127			2.14	20
2,2-Dichloropropane	0.0250	0.0200	0.0220	79.8	88.0	61.3-134			9.72	20
Di-isopropyl ether	0.0250	0.0267	0.0271	107	108	65.1-135			1.31	20
Ethylbenzene	0.0250	0.0222	0.0229	88.8	91.5	80.9-121			3.04	20
Hexachloro-1,3-butadiene	0.0250	0.0213	0.0229	85.1	91.8	73.7-133			7.49	20
Isopropylbenzene	0.0250	0.0202	0.0212	80.8	84.6	81.6-124	J4		4.65	20
p-Isopropyltoluene	0.0250	0.0210	0.0224	84.2	89.5	77.6-129			6.11	20
2-Butanone (MEK)	0.125	0.105	0.0967	83.9	77.4	46.4-155			8.04	20
Methylene Chloride	0.0250	0.0244	0.0247	97.8	98.6	69.5-120			0.880	20
4-Methyl-2-pentanone (MIBK)	0.125	0.133	0.125	107	100	63.3-138			6.15	20
Methyl tert-butyl ether	0.0250	0.0241	0.0237	96.5	94.7	70.1-125			1.97	20
Naphthalene	0.0250	0.0221	0.0216	88.5	86.4	69.7-134			2.49	20
n-Propylbenzene	0.0250	0.0210	0.0221	84.0	88.3	81.9-122			4.94	20
Styrene	0.0250	0.0227	0.0232	90.9	93.0	79.9-124			2.29	20
1,1,1,2-Tetrachloroethane	0.0250	0.0224	0.0227	89.7	90.7	78.5-125			1.04	20
1,1,2,2-Tetrachloroethane	0.0250	0.0228	0.0220	91.0	87.8	79.3-123			3.60	20
Tetrachloroethene	0.0250	0.0208	0.0218	83.0	87.4	73.5-130			5.09	20
Toluene	0.0250	0.0237	0.0239	95.0	95.6	77.9-116			0.670	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0240	0.0252	96.2	101	62.0-141			4.65	20
1,2,3-Trichlorobenzene	0.0250	0.0220	0.0226	88.0	90.6	75.7-134			2.90	20
1,2,4-Trichlorobenzene	0.0250	0.0218	0.0225	87.2	89.9	76.1-136			3.04	20
1,1,1-Trichloroethane	0.0250	0.0228	0.0235	91.2	94.0	71.1-129			3.06	20
1,1,2-Trichloroethane	0.0250	0.0231	0.0232	92.2	92.9	81.6-120			0.680	20
Trichloroethene	0.0250	0.0231	0.0237	92.3	94.9	79.5-121			2.77	20
Trichlorofluoromethane	0.0250	0.0212	0.0224	84.8	89.4	49.1-157			5.36	20
1,2,3-Trichloropropane	0.0250	0.0225	0.0217	89.9	86.8	74.9-124			3.50	20
1,2,3-Trimethylbenzene	0.0250	0.0230	0.0234	92.0	93.5	79.9-118			1.67	20
1,2,4-Trimethylbenzene	0.0250	0.0205	0.0218	82.1	87.1	79.0-122			5.83	20
1,3,5-Trimethylbenzene	0.0250	0.0207	0.0214	82.8	85.5	81.0-123			3.25	20
Vinyl chloride	0.0250	0.0229	0.0234	91.5	93.4	61.5-134			2.05	20
Xylenes, Total	0.0750	0.0662	0.0684	88.3	91.2	79.2-122			3.23	20
(S) Toluene-d8				*102*	*102*	*90.0-115*				
(S) Dibromofluoromethane				*102*	*102*	*79.0-121*				
(S) 4-Bromofluorobenzene				*91.3*	*92.4*	*80.1-120*				

L822155-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 23:44 • (MS) 03/10/16 22:34 • (MSD) 03/10/16 22:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.000974	0.0563	0.0560	44.3	44.0	1	25.0-156			0.670	21.5
Acrolein	0.125	ND	0.107	0.107	85.7	85.9	1	34.0-194			0.180	21.5
Acrylonitrile	0.125	ND	0.130	0.130	104	104	1	55.9-161			0.410	20
Benzene	0.0250	ND	0.0196	0.0193	78.5	77.2	1	58.6-133			1.70	20
Bromobenzene	0.0250	ND	0.0197	0.0195	79.0	77.8	1	70.6-125			1.45	20
Bromodichloromethane	0.0250	ND	0.0209	0.0210	83.5	83.9	1	69.2-127			0.510	20
Bromoform	0.0250	ND	0.0198	0.0195	79.4	77.9	1	66.3-140			1.91	20
Bromomethane	0.0250	ND	0.0144	0.0152	57.8	60.6	1	16.6-183			4.77	20.5
n-Butylbenzene	0.0250	ND	0.0225	0.0225	89.9	89.9	1	64.8-145			0.0600	20
sec-Butylbenzene	0.0250	ND	0.0196	0.0191	78.5	76.2	1	66.8-139			2.87	20
tert-Butylbenzene	0.0250	ND	0.0198	0.0192	79.1	76.9	1	67.1-138			2.76	20
Carbon tetrachloride	0.0250	ND	0.0174	0.0171	69.8	68.4	1	60.6-139			1.93	20
Chlorobenzene	0.0250	ND	0.0193	0.0190	77.2	76.1	1	70.1-130			1.52	20
Chlorodibromomethane	0.0250	ND	0.0202	0.0201	80.7	80.3	1	71.6-132			0.560	20
Chloroethane	0.0250	ND	0.0166	0.0165	66.4	66.1	1	33.3-155			0.460	20
2-Chloroethyl vinyl ether	0.125	ND	0.00834	0.00422	6.67	3.37	1	5.00-149		J3 J6	65.7	40
Chloroform	0.0250	ND	0.0205	0.0208	81.9	83.1	1	66.1-133			1.53	20
Chloromethane	0.0250	ND	0.0130	0.0136	52.0	54.5	1	40.7-139			4.71	20
2-Chlorotoluene	0.0250	ND	0.0197	0.0191	78.7	76.3	1	66.9-134			3.12	20
4-Chlorotoluene	0.0250	ND	0.0198	0.0193	79.2	77.2	1	66.8-134			2.58	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0224	0.0224	89.6	89.6	1	63.9-142			0.0300	20.2
1,2-Dibromoethane	0.0250	ND	0.0191	0.0189	76.4	75.6	1	73.8-131			1.15	20
Dibromomethane	0.0250	ND	0.0204	0.0201	81.4	80.5	1	72.8-127			1.16	20
1,2-Dichlorobenzene	0.0250	ND	0.0221	0.0219	88.4	87.7	1	77.4-127			0.810	20
1,3-Dichlorobenzene	0.0250	ND	0.0196	0.0192	78.4	76.7	1	67.9-136			2.13	20
1,4-Dichlorobenzene	0.0250	ND	0.0213	0.0210	85.0	84.2	1	74.4-123			0.970	20
Dichlorodifluoromethane	0.0250	ND	0.0151	0.0156	60.4	62.6	1	42.2-146			3.52	20
1,1-Dichloroethane	0.0250	ND	0.0214	0.0213	85.7	85.3	1	64.0-134			0.430	20
1,2-Dichloroethane	0.0250	ND	0.0201	0.0205	80.3	82.1	1	60.7-132			2.17	20
1,1-Dichloroethene	0.0250	ND	0.0164	0.0163	65.6	65.2	1	48.8-144			0.510	20
cis-1,2-Dichloroethene	0.0250	ND	0.0198	0.0200	79.4	80.2	1	60.6-136			1.03	20
trans-1,2-Dichloroethene	0.0250	ND	0.0155	0.0156	62.2	62.3	1	61.0-132			0.290	20
1,2-Dichloropropane	0.0250	ND	0.0224	0.0224	89.7	89.5	1	69.7-130			0.210	20
1,1-Dichloropropene	0.0250	ND	0.0174	0.0176	69.7	70.6	1	61.5-136			1.28	20
1,3-Dichloropropane	0.0250	ND	0.0217	0.0216	86.8	86.4	1	74.3-123			0.490	20
cis-1,3-Dichloropropene	0.0250	ND	0.0208	0.0208	83.1	83.2	1	71.1-129			0.150	20

L822155-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/10/16 23:44 • (MS) 03/10/16 22:34 • (MSD) 03/10/16 22:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0214	0.0225	85.4	89.9	1	66.3-136			5.12	20
2,2-Dichloropropane	0.0250	ND	0.0189	0.0188	75.6	75.1	1	54.9-142			0.580	20
Di-isopropyl ether	0.0250	ND	0.0240	0.0239	95.9	95.8	1	59.9-140			0.110	20
Ethylbenzene	0.0250	ND	0.0184	0.0185	73.5	74.2	1	62.7-136			0.910	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0216	0.0209	86.4	83.6	1	61.1-144			3.28	20.1
Isopropylbenzene	0.0250	ND	0.0181	0.0177	72.5	71.0	1	67.4-136			2.17	20
p-Isopropyltoluene	0.0250	ND	0.0198	0.0193	79.1	77.1	1	62.8-143			2.54	20
2-Butanone (MEK)	0.125	ND	0.0795	0.0816	63.6	65.3	1	45.0-156			2.58	20.8
Methylene Chloride	0.0250	ND	0.0188	0.0190	75.1	76.0	1	61.5-125			1.18	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.121	0.122	96.4	97.6	1	60.7-150			1.20	20
Methyl tert-butyl ether	0.0250	ND	0.0213	0.0215	85.3	85.9	1	61.4-136			0.650	20
Naphthalene	0.0250	ND	0.0214	0.0213	85.4	85.3	1	61.8-143			0.150	20
n-Propylbenzene	0.0250	ND	0.0188	0.0185	75.3	74.1	1	63.2-139			1.60	20
Styrene	0.0250	ND	0.0198	0.0197	79.1	78.6	1	68.2-133			0.600	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0199	0.0195	79.4	77.9	1	70.5-132			1.97	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0214	0.0212	85.6	84.7	1	64.9-145			1.02	20
Tetrachloroethene	0.0250	ND	0.0159	0.0159	63.7	63.7	1	57.4-141			0.130	20
Toluene	0.0250	ND	0.0187	0.0188	74.7	75.2	1	67.8-124			0.750	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0191	0.0192	76.3	76.9	1	53.7-150			0.830	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0219	0.0220	87.8	88.1	1	65.7-143			0.340	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0221	0.0218	88.4	87.2	1	67.0-146			1.37	20
1,1,1-Trichloroethane	0.0250	ND	0.0186	0.0188	74.3	75.2	1	58.7-134			1.23	20
1,1,2-Trichloroethane	0.0250	ND	0.0208	0.0210	83.4	83.9	1	74.1-130			0.630	20
Trichloroethene	0.0250	ND	0.0174	0.0175	69.6	69.9	1	48.9-148			0.430	20
Trichlorofluoromethane	0.0250	ND	0.0150	0.0151	60.1	60.4	1	39.9-165			0.570	20
1,2,3-Trichloropropane	0.0250	ND	0.0199	0.0206	79.8	82.4	1	71.5-134			3.16	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0211	0.0207	84.4	82.7	1	62.7-133			2.01	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0185	0.0181	73.9	72.5	1	60.5-137			1.97	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0184	0.0182	73.7	73.0	1	67.9-134			0.970	20
Vinyl chloride	0.0250	ND	0.0148	0.0147	59.0	59.0	1	44.3-143			0.110	20
Xylenes, Total	0.0750	ND	0.0557	0.0546	74.2	72.8	1	65.6-133			1.95	20
(S) Toluene-d8					*103*	*102*		*90.0-115*				
(S) Dibromofluoromethane					*104*	*102*		*79.0-121*				
(S) 4-Bromofluorobenzene					*90.7*	*89.3*		*80.1-120*				

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
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

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.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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

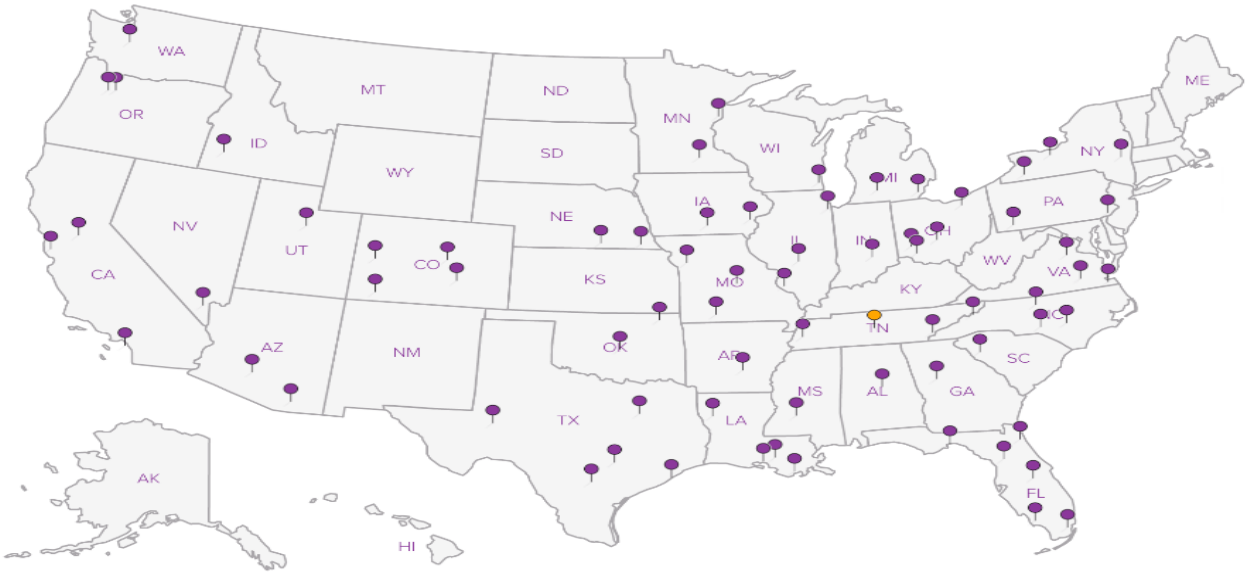
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

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.**



Company Name/Address:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151

Billing Information:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151
GREENENVA120914S

Report to: Trev Greene

Email To: tgreene@greene-environmental.com

Project Description: Meadows of Dan Food Market

City/State Collected: VA

Phone: 540-483-3311
Fax: 540-483-3381

Client Project #: FMMD1007

Lab Project #

Collected by (print): CH

Site/Facility ID #

P.O. #: GREENENVA120914S

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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# L822155
B181

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via: FEDEX

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX, MTBE, Naphthalene via 8021	TPH-GRO via 8015	BTEX, MTBE via Method 18	TVPH via Method 18	VOCs via 8260	Rem./Contaminant	Sample # (lab only)
INF04	Grab	GW		03/07/16	1355	4	X	X					-01
EFF04	Grab	GW		03/07/16	1400	4	X	X					02
RCP04	Grab	Air		03/07/16	1045	1			X	X			03
AS04	Grab	Air		03/07/16	1048	1			X	X			04
DW17	Grab	GW		03/04/16	1345	3					X		05

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

6617 3614 9804

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Caleb Harris	3/8/2016	0900	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MW

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: AMB/2.4°C °C Bottles Received: 13

Date: 3-9-16 Time: 0900

Condition: (lab use only) YOU

COC Seal Intact: ____Y ____N ✓NA

pH Checked: NCF:

ANALYTICAL REPORT

March 31, 2016

Greene Env. Services, LLC

Sample Delivery Group:	L823971
Samples Received:	03/17/2016
Project Number:	FMMD1007
Description:	Meadows of Dan Food Market
Report To:	Mr.Trev Greene 129 Bunny Ridge Lane Rocky Mount, VA 24151

Entire Report Reviewed By:

Terrie Fudge
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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INF05 L823971-01 GW

Collected by: CH | Collected date/time: 03/15/16 12:15 | Received date/time: 03/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG857926	1	03/22/16 00:21	03/22/16 00:21	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG858540	100	03/23/16 13:28	03/23/16 13:28	GLN

EFF05 L823971-02 GW

Collected by: CH | Collected date/time: 03/15/16 12:20 | Received date/time: 03/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG857926	1	03/22/16 00:43	03/22/16 00:43	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG858940	20	03/24/16 17:06	03/24/16 17:06	GLN
Wet Chemistry by Method 9040C	WG857429	1	03/18/16 08:02	03/18/16 08:02	AMC

RCP05 L823971-03 Air

Collected by: CH | Collected date/time: 03/15/16 12:45 | Received date/time: 03/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG857190	800	03/19/16 03:03	03/19/16 03:03	GLN
Volatile Organic Compounds (MS) by Method M18-Mod	WG858219	8000	03/21/16 20:13	03/21/16 20:13	GLN

AS05 L823971-04 Air

Collected by: CH | Collected date/time: 03/15/16 12:50 | Received date/time: 03/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG857190	25	03/19/16 03:47	03/19/16 03:47	GLN
Volatile Organic Compounds (MS) by Method M18-Mod	WG858219	400	03/21/16 20:56	03/21/16 20:56	GLN

DW19 L823971-05 GW

Collected by: CH | Collected date/time: 03/15/16 13:45 | Received date/time: 03/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG857679	1	03/20/16 09:35	03/20/16 09:35	GLN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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.

Terrie Fudge

Terrie Fudge
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L823971-02	EFF05	9040C

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	6730		31.4	100	1	03/22/2016 00:21	WG857926
(S) α,α,α-Trifluorotoluene(FID)	*95.1*			*62.0-128*		*03/22/2016 00:21*	WG857926

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	338		33.1	100	100	03/23/2016 13:28	WG858540
Toluene	4300		78.0	500	100	03/23/2016 13:28	WG858540
Ethylbenzene	1230		38.4	100	100	03/23/2016 13:28	WG858540
Total Xylenes	7440		106	300	100	03/23/2016 13:28	WG858540
Methyl tert-butyl ether	1820		36.7	100	100	03/23/2016 13:28	WG858540
Naphthalene	481	J	100	500	100	03/23/2016 13:28	WG858540
(S) Toluene-d8	*103*			*90.0-115*		*03/23/2016 13:28*	WG858540
(S) Dibromofluoromethane	*92.7*			*79.0-121*		*03/23/2016 13:28*	WG858540
(S) α,α,α-Trifluorotoluene	*111*			*90.4-116*		*03/23/2016 13:28*	WG858540
(S) 4-Bromofluorobenzene	*105*			*80.1-120*		*03/23/2016 13:28*	WG858540

Wet Chemistry by Method 9040C

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.26		1	03/18/2016 08:02	WG857429

Sample Narrative:

9040C L823971-02 WG857429: 7.26 at 14.0c

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	232		31.4	100	1	03/22/2016 00:43	WG857926
(S) α,α,α-Trifluorotoluene(FID)	*96.5*			*62.0-128*		*03/22/2016 00:43*	WG857926

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		6.62	20.0	20	03/24/2016 17:06	WG858940
Ethylbenzene	U		7.68	20.0	20	03/24/2016 17:06	WG858940
Methyl tert-butyl ether	142		7.34	20.0	20	03/24/2016 17:06	WG858940
Naphthalene	U		20.0	100	20	03/24/2016 17:06	WG858940
Toluene	U		15.6	100	20	03/24/2016 17:06	WG858940
Xylenes, Total	U		21.2	60.0	20	03/24/2016 17:06	WG858940
Ethanol	U		840	10000	20	03/24/2016 17:06	WG858940
(S) Toluene-d8	*107*			*90.0-115*		*03/24/2016 17:06*	WG858940
(S) Dibromofluoromethane	*105*			*79.0-121*		*03/24/2016 17:06*	WG858940
(S) α,α,α-Trifluorotoluene	*101*			*90.4-116*		*03/24/2016 17:06*	WG858940
(S) 4-Bromofluorobenzene	*100*			*80.1-120*		*03/24/2016 17:06*	WG858940

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	160	511	5490	17500		800	WG857190
Toluene	108-88-3	92.10	1600	6030	56200	212000		8000	WG858219
Ethylbenzene	100-41-4	106	160	694	9090	39400		800	WG857190
m&p-Xylene	1330-20-7	106	320	1390	30600	133000		800	WG857190
o-Xylene	95-47-6	106	160	694	11100	48300		800	WG857190
Methyl tert-butyl ether	1634-04-4	88.10	160	577	1760	6350		800	WG857190
TPH (GC/MS) Low Fraction	8006-61-9	101	40000	165000	553000	2280000		800	WG857190
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG857190

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	5.00	16.0	556	1780		25	WG857190
Toluene	108-88-3	92.10	80.0	301	5810	21900		400	WG858219
Ethylbenzene	100-41-4	106	80.0	347	1340	5830		400	WG858219
m&p-Xylene	1330-20-7	106	160	694	5300	23000		400	WG858219
o-Xylene	95-47-6	106	80.0	347	2510	10900		400	WG858219
Methyl tert-butyl ether	1634-04-4	88.10	80.0	288	2300	8280		400	WG858219
TPH (GC/MS) Low Fraction	8006-61-9	101	1250	5160	23300	96300		25	WG857190
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG857190

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	03/20/2016 09:35	WG857679
Acrolein	U		8.87	50.0	1	03/20/2016 09:35	WG857679
Acrylonitrile	U		1.87	10.0	1	03/20/2016 09:35	WG857679
Benzene	U		0.331	1.00	1	03/20/2016 09:35	WG857679
Bromobenzene	U		0.352	1.00	1	03/20/2016 09:35	WG857679
Bromodichloromethane	U		0.380	1.00	1	03/20/2016 09:35	WG857679
Bromoform	U		0.469	1.00	1	03/20/2016 09:35	WG857679
Bromomethane	U		0.866	5.00	1	03/20/2016 09:35	WG857679
n-Butylbenzene	U		0.361	1.00	1	03/20/2016 09:35	WG857679
sec-Butylbenzene	U		0.365	1.00	1	03/20/2016 09:35	WG857679
tert-Butylbenzene	U		0.399	1.00	1	03/20/2016 09:35	WG857679
Carbon tetrachloride	U		0.379	1.00	1	03/20/2016 09:35	WG857679
Chlorobenzene	U		0.348	1.00	1	03/20/2016 09:35	WG857679
Chlorodibromomethane	U		0.327	1.00	1	03/20/2016 09:35	WG857679
Chloroethane	U		0.453	5.00	1	03/20/2016 09:35	WG857679
2-Chloroethyl vinyl ether	U	J4	3.01	50.0	1	03/20/2016 09:35	WG857679
Chloroform	U		0.324	5.00	1	03/20/2016 09:35	WG857679
Chloromethane	U		0.276	2.50	1	03/20/2016 09:35	WG857679
2-Chlorotoluene	U		0.375	1.00	1	03/20/2016 09:35	WG857679
4-Chlorotoluene	U		0.351	1.00	1	03/20/2016 09:35	WG857679
1,2-Dibromo-3-Chloropropane	U		1.33	5.00	1	03/20/2016 09:35	WG857679
1,2-Dibromoethane	U		0.381	1.00	1	03/20/2016 09:35	WG857679
Dibromomethane	U		0.346	1.00	1	03/20/2016 09:35	WG857679
1,2-Dichlorobenzene	U		0.349	1.00	1	03/20/2016 09:35	WG857679
1,3-Dichlorobenzene	U		0.220	1.00	1	03/20/2016 09:35	WG857679
1,4-Dichlorobenzene	U		0.274	1.00	1	03/20/2016 09:35	WG857679
Dichlorodifluoromethane	U		0.551	5.00	1	03/20/2016 09:35	WG857679
1,1-Dichloroethane	0.413	J	0.259	1.00	1	03/20/2016 09:35	WG857679
1,2-Dichloroethane	0.758	J	0.361	1.00	1	03/20/2016 09:35	WG857679
1,1-Dichloroethene	U		0.398	1.00	1	03/20/2016 09:35	WG857679
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/20/2016 09:35	WG857679
trans-1,2-Dichloroethene	U		0.396	1.00	1	03/20/2016 09:35	WG857679
1,2-Dichloropropane	U		0.306	1.00	1	03/20/2016 09:35	WG857679
1,1-Dichloropropene	U		0.352	1.00	1	03/20/2016 09:35	WG857679
1,3-Dichloropropane	U		0.366	1.00	1	03/20/2016 09:35	WG857679
cis-1,3-Dichloropropene	U		0.418	1.00	1	03/20/2016 09:35	WG857679
trans-1,3-Dichloropropene	U		0.419	1.00	1	03/20/2016 09:35	WG857679
2,2-Dichloropropane	U		0.321	1.00	1	03/20/2016 09:35	WG857679
Di-isopropyl ether	1.48		0.320	1.00	1	03/20/2016 09:35	WG857679
Ethylbenzene	U		0.384	1.00	1	03/20/2016 09:35	WG857679
Hexachloro-1,3-butadiene	U		0.256	1.00	1	03/20/2016 09:35	WG857679
Isopropylbenzene	U		0.326	1.00	1	03/20/2016 09:35	WG857679
p-Isopropyltoluene	U		0.350	1.00	1	03/20/2016 09:35	WG857679
2-Butanone (MEK)	U		3.93	10.0	1	03/20/2016 09:35	WG857679
Methylene Chloride	U		1.00	5.00	1	03/20/2016 09:35	WG857679
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0	1	03/20/2016 09:35	WG857679
Methyl tert-butyl ether	0.773	J	0.367	1.00	1	03/20/2016 09:35	WG857679
Naphthalene	U		1.00	5.00	1	03/20/2016 09:35	WG857679
n-Propylbenzene	U		0.349	1.00	1	03/20/2016 09:35	WG857679
Styrene	U		0.307	1.00	1	03/20/2016 09:35	WG857679
1,1,1,2-Tetrachloroethane	U		0.385	1.00	1	03/20/2016 09:35	WG857679
1,1,2,2-Tetrachloroethane	U	J4	0.130	1.00	1	03/20/2016 09:35	WG857679
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00	1	03/20/2016 09:35	WG857679
Tetrachloroethene	U		0.372	1.00	1	03/20/2016 09:35	WG857679
Toluene	U		0.780	5.00	1	03/20/2016 09:35	WG857679
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/20/2016 09:35	WG857679

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.355	1.00	1	03/20/2016 09:35	WG857679
1,1,1-Trichloroethane	U		0.319	1.00	1	03/20/2016 09:35	WG857679
1,1,2-Trichloroethane	U		0.383	1.00	1	03/20/2016 09:35	WG857679
Trichloroethene	U		0.398	1.00	1	03/20/2016 09:35	WG857679
Trichlorofluoromethane	U		1.20	5.00	1	03/20/2016 09:35	WG857679
1,2,3-Trichloropropane	U		0.807	2.50	1	03/20/2016 09:35	WG857679
1,2,4-Trimethylbenzene	U		0.373	1.00	1	03/20/2016 09:35	WG857679
1,2,3-Trimethylbenzene	U		0.321	1.00	1	03/20/2016 09:35	WG857679
1,3,5-Trimethylbenzene	U		0.387	1.00	1	03/20/2016 09:35	WG857679
Vinyl chloride	U		0.259	1.00	1	03/20/2016 09:35	WG857679
Xylenes, Total	U		1.06	3.00	1	03/20/2016 09:35	WG857679
(S) Toluene-d8	*104*			*90.0-115*		*03/20/2016 09:35*	WG857679
(S) Dibromofluoromethane	*113*			*79.0-121*		*03/20/2016 09:35*	WG857679
(S) 4-Bromofluorobenzene	*100*			*80.1-120*		*03/20/2016 09:35*	WG857679

Original Sample (OS) • Duplicate (DUP)

(OS) L823971-02 03/18/16 08:02 • (DUP) WG857429-1 03/18/16 08:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.26	7.27	1	0.138		1

Original Sample (OS) • Duplicate (DUP)

(OS) L824108-11 03/18/16 08:02 • (DUP) WG857429-2 03/18/16 08:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.04	7.04	1	0.000		1

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) WG857429-3 03/18/16 08:02 • (LCSD) WG857429-4 03/18/16 08:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	su	su	su	%	%	%			%	%
pH	6.31	6.27	6.28	99.4	99.5	98.5-102			0.159	1

Method Blank (MB)

(MB) R3122281-3 03/18/16 18:24

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0460	0.200
Ethylbenzene	0.0847		0.0506	0.200
MTBE	U		0.0505	0.200
m&p-Xylene	0.164		0.0946	0.400
o-Xylene	0.0991		0.0633	0.200
TPH (GC/MS) Low Fraction	11.8		6.91	50.0
(S) 1,4-Bromofluorobenzene	*92.3*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3122281-1 03/18/16 16:57 • (LCSD) R3122281-2 03/18/16 17:41

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.95	4.13	105	110	70.0-130			4.49	25
Benzene	3.75	3.83	4.04	102	108	70.0-130			5.29	25
Ethylbenzene	3.75	3.95	4.14	105	110	70.0-130			4.56	25
m&p-Xylene	7.50	8.05	8.41	107	112	70.0-130			4.45	25
o-Xylene	3.75	3.96	4.12	106	110	70.0-130			4.17	25
TPH (GC/MS) Low Fraction	150	156	163	104	109	70.0-130			4.68	25
(S) 1,4-Bromofluorobenzene				*99.7*	*97.1*	*60.0-140*				

Method Blank (MB)

(MB) R3122679-3 03/21/16 16:04

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Ethylbenzene	U		0.0506	0.200
MTBE	U		0.0505	0.200
Toluene	U		0.0499	0.200
m&p-Xylene	0.107		0.0946	0.400
o-Xylene	U		0.0633	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3122679-1 03/21/16 09:27 • (LCSD) R3122679-2 03/21/16 15:21

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.50	3.15	93.3	84.0	70.0-130			10.4	25
Toluene	3.75	4.22	3.64	113	97.1	70.0-130			14.8	25
Ethylbenzene	3.75	4.17	3.59	111	95.6	70.0-130			15.0	25
m&p-Xylene	7.50	8.47	7.32	113	97.6	70.0-130			14.5	25
o-Xylene	3.75	4.17	3.57	111	95.3	70.0-130			15.3	25

Method Blank (MB)

(MB) R3122846-1 03/21/16 12:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) α,α,α-Trifluorotoluene(FID)	*96.9*			*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3122846-2 03/21/16 13:33 • (LCSD) R3122846-3 03/21/16 13:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	4.56	4.47	83.0	81.3	67.0-132			2.10	20
(S) α,α,α-Trifluorotoluene(FID)				*100*	*101*	*62.0-128*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L823801-01 03/21/16 15:56 • (MS) R3122846-4 03/21/16 14:50 • (MSD) R3122846-5 03/21/16 15:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.0382	6.31	6.48	114	117	1	50.0-143			2.53	20
(S) α,α,α-Trifluorotoluene(FID)					*103*	*104*		*62.0-128*				

Method Blank (MB)

(MB) R3122976-3 03/20/16 02:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100

Method Blank (MB)

(MB) R3122976-3 03/20/16 02:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*104*			*90.0-115*
(S) Dibromofluoromethane	*108*			*79.0-121*
(S) 4-Bromofluorobenzene	*97.9*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3122976-1 03/19/16 23:18 • (LCSD) R3122976-2 03/20/16 00:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.110	0.101	88.2	80.7	28.7-175			8.87	20.9
Acrolein	0.125	0.101	0.0924	80.6	74.0	40.4-172			8.56	20
Acrylonitrile	0.125	0.123	0.111	98.4	88.6	58.2-145			10.5	20
Benzene	0.0250	0.0239	0.0237	95.5	94.9	73.0-122			0.600	20
Bromobenzene	0.0250	0.0242	0.0235	97.0	94.1	81.5-115			3.01	20
Bromodichloromethane	0.0250	0.0240	0.0234	95.9	93.6	75.5-121			2.41	20
Bromoform	0.0250	0.0211	0.0201	84.6	80.3	71.5-131			5.21	20
Bromomethane	0.0250	0.0297	0.0310	119	124	22.4-187			4.14	20
n-Butylbenzene	0.0250	0.0261	0.0255	104	102	75.9-134			2.38	20
sec-Butylbenzene	0.0250	0.0223	0.0218	89.1	87.1	80.6-126			2.24	20
tert-Butylbenzene	0.0250	0.0224	0.0225	89.7	89.8	79.3-127			0.0800	20
Carbon tetrachloride	0.0250	0.0241	0.0243	96.5	97.2	70.9-129			0.750	20
Chlorobenzene	0.0250	0.0227	0.0226	90.8	90.2	79.7-122			0.630	20
Chlorodibromomethane	0.0250	0.0226	0.0217	90.3	86.8	78.2-124			4.04	20
Chloroethane	0.0250	0.0251	0.0251	101	101	41.2-153			0.0100	20
2-Chloroethyl vinyl ether	0.125	ND	ND	0.960	1.08	23.4-162	J4	J4	11.9	23.5
Chloroform	0.0250	0.0248	0.0249	99.1	99.7	73.2-125			0.530	20
Chloromethane	0.0250	0.0223	0.0219	89.4	87.7	55.8-134			1.86	20
2-Chlorotoluene	0.0250	0.0220	0.0218	88.0	87.4	76.4-125			0.710	20
4-Chlorotoluene	0.0250	0.0238	0.0237	95.2	94.6	81.5-121			0.560	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0228	0.0199	91.2	79.6	64.8-131			13.6	20
1,2-Dibromoethane	0.0250	0.0236	0.0224	94.4	89.6	79.8-122			5.22	20
Dibromomethane	0.0250	0.0237	0.0225	94.7	90.2	79.5-118			4.86	20
1,2-Dichlorobenzene	0.0250	0.0243	0.0238	97.3	95.3	84.7-118			2.13	20
1,3-Dichlorobenzene	0.0250	0.0219	0.0217	87.4	86.9	77.6-127			0.600	20
1,4-Dichlorobenzene	0.0250	0.0226	0.0225	90.3	90.1	82.2-114			0.120	20
Dichlorodifluoromethane	0.0250	0.0223	0.0224	89.3	89.7	56.0-134			0.510	20
1,1-Dichloroethane	0.0250	0.0251	0.0250	100	99.9	71.7-127			0.350	20
1,2-Dichloroethane	0.0250	0.0262	0.0259	105	104	65.3-126			1.23	20
1,1-Dichloroethene	0.0250	0.0252	0.0257	101	103	59.9-137			1.71	20
cis-1,2-Dichloroethene	0.0250	0.0243	0.0249	97.1	99.5	77.3-122			2.40	20
trans-1,2-Dichloroethene	0.0250	0.0232	0.0242	92.9	96.9	72.6-125			4.16	20
1,2-Dichloropropane	0.0250	0.0236	0.0235	94.6	93.9	77.4-125			0.710	20
1,1-Dichloropropene	0.0250	0.0261	0.0258	104	103	72.5-127			0.820	20
1,3-Dichloropropane	0.0250	0.0239	0.0236	95.7	94.5	80.6-115			1.23	20
cis-1,3-Dichloropropene	0.0250	0.0241	0.0241	96.6	96.5	77.7-124			0.100	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3122976-1 03/19/16 23:18 • (LCSD) R3122976-2 03/20/16 00:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	0.0240	0.0239	95.9	95.6	73.5-127			0.360	20
2,2-Dichloropropane	0.0250	0.0244	0.0242	97.5	96.9	61.3-134			0.650	20
Di-isopropyl ether	0.0250	0.0231	0.0227	92.5	91.0	65.1-135			1.71	20
Ethylbenzene	0.0250	0.0232	0.0233	92.7	93.1	80.9-121			0.510	20
Hexachloro-1,3-butadiene	0.0250	0.0229	0.0213	91.6	85.3	73.7-133			7.11	20
Isopropylbenzene	0.0250	0.0229	0.0227	91.7	90.9	81.6-124			0.870	20
p-Isopropyltoluene	0.0250	0.0225	0.0222	90.2	89.0	77.6-129			1.33	20
2-Butanone (MEK)	0.125	0.111	0.101	89.2	80.8	46.4-155			9.79	20
Methylene Chloride	0.0250	0.0226	0.0224	90.5	89.7	69.5-120			0.820	20
4-Methyl-2-pentanone (MIBK)	0.125	0.111	0.102	89.1	81.3	63.3-138			9.13	20
Methyl tert-butyl ether	0.0250	0.0240	0.0235	95.9	94.1	70.1-125			1.93	20
Naphthalene	0.0250	0.0223	0.0200	89.2	79.8	69.7-134			11.1	20
n-Propylbenzene	0.0250	0.0240	0.0243	96.1	97.1	81.9-122			1.05	20
Styrene	0.0250	0.0230	0.0229	92.1	91.7	79.9-124			0.520	20
1,1,1,2-Tetrachloroethane	0.0250	0.0219	0.0220	87.6	88.2	78.5-125			0.710	20
1,1,2,2-Tetrachloroethane	0.0250	0.0211	0.0197	84.2	78.8	79.3-123		J4	6.67	20
Tetrachloroethene	0.0250	0.0226	0.0229	90.5	91.6	73.5-130			1.24	20
Toluene	0.0250	0.0232	0.0231	92.8	92.6	77.9-116			0.190	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0243	0.0248	97.3	99.2	62.0-141			1.92	20
1,2,3-Trichlorobenzene	0.0250	0.0219	0.0207	87.7	83.0	75.7-134			5.55	20
1,2,4-Trichlorobenzene	0.0250	0.0232	0.0227	93.0	90.6	76.1-136			2.55	20
1,1,1-Trichloroethane	0.0250	0.0247	0.0247	98.7	98.7	71.1-129			0.0500	20
1,1,2-Trichloroethane	0.0250	0.0231	0.0221	92.4	88.3	81.6-120			4.59	20
Trichloroethene	0.0250	0.0232	0.0230	92.8	92.1	79.5-121			0.760	20
Trichlorofluoromethane	0.0250	0.0258	0.0260	103	104	49.1-157			0.960	20
1,2,3-Trichloropropane	0.0250	0.0238	0.0213	95.1	85.1	74.9-124			11.1	20
1,2,3-Trimethylbenzene	0.0250	0.0246	0.0234	98.2	93.7	79.9-118			4.76	20
1,2,4-Trimethylbenzene	0.0250	0.0226	0.0225	90.6	89.9	79.0-122			0.780	20
1,3,5-Trimethylbenzene	0.0250	0.0224	0.0221	89.4	88.6	81.0-123			0.960	20
Vinyl chloride	0.0250	0.0248	0.0244	99.2	97.5	61.5-134			1.76	20
Xylenes, Total	0.0750	0.0676	0.0681	90.2	90.8	79.2-122			0.650	20
(S) Toluene-d8				*105*	*106*	*90.0-115*				
(S) Dibromofluoromethane				*108*	*108*	*79.0-121*				
(S) 4-Bromofluorobenzene				*102*	*102*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L823785-01 03/20/16 04:08 • (MS) R3122976-4 03/20/16 02:51 • (MSD) R3122976-5 03/20/16 03:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00100	0.0509	0.0494	39.9	38.7	1	25.0-156			3.00	21.5
Acrolein	0.125	ND	0.0909	0.0878	72.7	70.2	1	34.0-194			3.47	21.5
Acrylonitrile	0.125	ND	0.118	0.115	94.6	92.0	1	55.9-161			2.82	20
Benzene	0.0250	ND	0.0236	0.0226	94.2	90.2	1	58.6-133			4.32	20
Bromobenzene	0.0250	ND	0.0236	0.0230	94.6	92.1	1	70.6-125			2.68	20
Bromodichloromethane	0.0250	ND	0.0237	0.0227	94.9	90.8	1	69.2-127			4.36	20
Bromoform	0.0250	ND	0.0208	0.0205	83.2	82.0	1	66.3-140			1.37	20
Bromomethane	0.0250	ND	0.0303	0.0288	121	115	1	16.6-183			4.92	20.5
n-Butylbenzene	0.0250	ND	0.0251	0.0244	101	97.4	1	64.8-145			3.12	20
sec-Butylbenzene	0.0250	ND	0.0218	0.0211	87.0	84.3	1	66.8-139			3.18	20
tert-Butylbenzene	0.0250	ND	0.0219	0.0213	87.6	85.2	1	67.1-138			2.78	20
Carbon tetrachloride	0.0250	ND	0.0231	0.0223	92.6	89.2	1	60.6-139			3.66	20
Chlorobenzene	0.0250	ND	0.0225	0.0214	89.8	85.5	1	70.1-130			4.98	20
Chlorodibromomethane	0.0250	ND	0.0217	0.0213	86.7	85.0	1	71.6-132			1.95	20
Chloroethane	0.0250	ND	0.0248	0.0235	99.3	93.9	1	33.3-155			5.66	20
2-Chloroethyl vinyl ether	0.125	ND	ND	ND	1.80	1.44	1	5.00-149	J6	J6	21.9	40
Chloroform	0.0250	ND	0.0248	0.0233	99.1	93.2	1	66.1-133			6.16	20
Chloromethane	0.0250	ND	0.0212	0.0205	85.0	82.0	1	40.7-139			3.56	20
2-Chlorotoluene	0.0250	ND	0.0217	0.0209	86.6	83.7	1	66.9-134			3.40	20
4-Chlorotoluene	0.0250	ND	0.0233	0.0227	93.0	90.9	1	66.8-134			2.35	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0214	0.0208	85.5	83.4	1	63.9-142			2.49	20.2
1,2-Dibromoethane	0.0250	ND	0.0232	0.0223	92.9	89.1	1	73.8-131			4.24	20
Dibromomethane	0.0250	ND	0.0232	0.0222	92.8	88.7	1	72.8-127			4.47	20
1,2-Dichlorobenzene	0.0250	ND	0.0236	0.0224	94.3	89.7	1	77.4-127			4.97	20
1,3-Dichlorobenzene	0.0250	ND	0.0215	0.0210	85.8	84.0	1	67.9-136			2.12	20
1,4-Dichlorobenzene	0.0250	ND	0.0223	0.0213	89.2	85.1	1	74.4-123			4.71	20
Dichlorodifluoromethane	0.0250	ND	0.0214	0.0210	85.5	83.9	1	42.2-146			1.94	20
1,1-Dichloroethane	0.0250	ND	0.0246	0.0236	98.5	94.4	1	64.0-134			4.28	20
1,2-Dichloroethane	0.0250	ND	0.0257	0.0251	103	100	1	60.7-132			2.57	20
1,1-Dichloroethene	0.0250	ND	0.0249	0.0237	99.5	94.9	1	48.8-144			4.72	20
cis-1,2-Dichloroethene	0.0250	ND	0.0244	0.0237	97.5	94.8	1	60.6-136			2.78	20
trans-1,2-Dichloroethene	0.0250	ND	0.0234	0.0222	93.7	89.0	1	61.0-132			5.22	20
1,2-Dichloropropane	0.0250	ND	0.0233	0.0221	93.2	88.3	1	69.7-130			5.43	20
1,1-Dichloropropene	0.0250	ND	0.0256	0.0244	102	97.5	1	61.5-136			4.97	20
1,3-Dichloropropane	0.0250	ND	0.0237	0.0228	94.7	91.2	1	74.3-123			3.75	20
cis-1,3-Dichloropropene	0.0250	ND	0.0237	0.0232	94.8	92.6	1	71.1-129			2.34	20

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L823785-01 03/20/16 04:08 • (MS) R3122976-4 03/20/16 02:51 • (MSD) R3122976-5 03/20/16 03:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
trans-1,3-Dichloropropene	0.0250	ND	0.0240	0.0228	96.0	91.0	1	66.3-136			5.33	20
2,2-Dichloropropane	0.0250	ND	0.0239	0.0229	95.7	91.5	1	54.9-142			4.51	20
Di-isopropyl ether	0.0250	ND	0.0228	0.0219	91.3	87.4	1	59.9-140			4.34	20
Ethylbenzene	0.0250	ND	0.0224	0.0213	89.8	85.1	1	62.7-136			5.29	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0208	0.0205	83.1	81.9	1	61.1-144			1.44	20.1
Isopropylbenzene	0.0250	ND	0.0223	0.0213	89.2	85.2	1	67.4-136			4.55	20
p-Isopropyltoluene	0.0250	ND	0.0225	0.0213	89.8	85.3	1	62.8-143			5.08	20
2-Butanone (MEK)	0.125	ND	0.0757	0.0733	60.6	58.7	1	45.0-156			3.24	20.8
Methylene Chloride	0.0250	ND	0.0216	0.0215	86.5	85.9	1	61.5-125			0.750	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.107	0.102	85.3	81.9	1	60.7-150			4.10	20
Methyl tert-butyl ether	0.0250	ND	0.0243	0.0231	97.2	92.5	1	61.4-136			4.94	20
Naphthalene	0.0250	0.000132	0.0212	0.0209	84.1	83.0	1	61.8-143			1.33	20
n-Propylbenzene	0.0250	ND	0.0237	0.0228	94.7	91.1	1	63.2-139			3.87	20
Styrene	0.0250	ND	0.0226	0.0216	90.4	86.2	1	68.2-133			4.67	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0216	0.0206	86.4	82.5	1	70.5-132			4.63	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0206	0.0201	82.3	80.3	1	64.9-145			2.45	20
Tetrachloroethene	0.0250	ND	0.0219	0.0206	87.8	82.3	1	57.4-141			6.42	20
Toluene	0.0250	ND	0.0231	0.0222	92.5	88.6	1	67.8-124			4.35	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0244	0.0237	97.4	94.8	1	53.7-150			2.69	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0211	0.0207	84.2	82.6	1	65.7-143			1.90	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0224	0.0218	89.7	87.2	1	67.0-146			2.83	20
1,1,1-Trichloroethane	0.0250	ND	0.0241	0.0227	96.6	91.0	1	58.7-134			5.98	20
1,1,2-Trichloroethane	0.0250	ND	0.0227	0.0219	91.0	87.6	1	74.1-130			3.82	20
Trichloroethene	0.0250	ND	0.0226	0.0213	90.2	85.4	1	48.9-148			5.52	20
Trichlorofluoromethane	0.0250	ND	0.0254	0.0243	102	97.0	1	39.9-165			4.64	20
1,2,3-Trichloropropane	0.0250	ND	0.0229	0.0219	91.7	87.8	1	71.5-134			4.37	20
1,2,3-Trimethylbenzene	0.0250	ND	0.0236	0.0227	94.3	90.7	1	62.7-133			3.88	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0221	0.0214	88.3	85.6	1	60.5-137			3.08	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0220	0.0212	88.1	84.7	1	67.9-134			3.90	20
Vinyl chloride	0.0250	ND	0.0239	0.0229	95.7	91.6	1	44.3-143			4.36	20
Xylenes, Total	0.0750	ND	0.0666	0.0637	88.8	85.0	1	65.6-133			4.39	20
(S) Toluene-d8					*107*	*107*		*90.0-115*				
(S) Dibromofluoromethane					*108*	*109*		*79.0-121*				
(S) 4-Bromofluorobenzene					*104*	*104*		*80.1-120*				

Method Blank (MB)

(MB) R3123152-3 03/23/16 05:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Ethylbenzene	U		0.000384	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000780	0.00500
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*102*		*90.0-115*	
(S) Dibromofluoromethane	*94.1*		*79.0-121*	
(S) α,α,α-Trifluorotoluene	*109*		*90.4-116*	
(S) 4-Bromofluorobenzene	*105*		*80.1-120*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3123152-1 03/23/16 04:47 • (LCSD) R3123152-2 03/23/16 05:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0271	0.0262	109	105	73.0-122			3.66	20
Ethylbenzene	0.0250	0.0257	0.0253	103	101	80.9-121			1.33	20
Methyl tert-butyl ether	0.0250	0.0234	0.0222	93.5	89.0	70.1-125			4.93	20
Naphthalene	0.0250	0.0225	0.0228	90.0	91.2	69.7-134			1.33	20
Toluene	0.0250	0.0256	0.0258	103	103	77.9-116			0.710	20
Xylenes, Total	0.0750	0.0758	0.0748	101	99.8	79.2-122			1.24	20
(S) Toluene-d8				*101*	*101*	*90.0-115*				
(S) Dibromofluoromethane				*95.7*	*90.7*	*79.0-121*				
(S) α,α,α-Trifluorotoluene				*108*	*106*	*90.4-116*				
(S) 4-Bromofluorobenzene				*104*	*100*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L824343-04 03/23/16 14:31 • (MS) R3123152-4 03/23/16 08:57 • (MSD) R3123152-5 03/23/16 09:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.192	0.193	0.191	4.19	0.000	1	58.6-133	V	V	1.35	20
Ethylbenzene	0.0250	0.0398	0.0588	0.0577	76.0	71.6	1	62.7-136			1.86	20
Methyl tert-butyl ether	0.0250	0.0498	0.0678	0.0678	72.1	71.9	1	61.4-136			0.0700	20

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L824343-04 03/23/16 14:31 • (MS) R3123152-4 03/23/16 08:57 • (MSD) R3123152-5 03/23/16 09:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.00280	0.0242	0.0249	85.7	88.5	1	61.8-143			2.83	20
Toluene	0.0250	0.531	0.480	0.474	0.000	0.000	1	67.8-124	V	V	1.40	20
Xylenes, Total	0.0750	0.396	0.413	0.399	22.6	3.68	1	65.6-133	V	V	3.49	20
(S) Toluene-d8					*101*	*101*		*90.0-115*				
(S) Dibromofluoromethane					*93.3*	*93.4*		*79.0-121*				
(S) α,α,α-Trifluorotoluene					*107*	*107*		*90.4-116*				
(S) 4-Bromofluorobenzene					*101*	*98.8*		*80.1-120*				

Method Blank (MB)

(MB) R3123588-5 03/24/16 12:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Ethylbenzene	U		0.000384	0.00100
Ethanol	U		0.0420	0.500
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000780	0.00500
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*103*		*90.0-115*	
(S) Dibromofluoromethane	*104*		*79.0-121*	
(S) α,α,α-Trifluorotoluene	*99.8*		*90.4-116*	
(S) 4-Bromofluorobenzene	*100*		*80.1-120*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3123588-1 03/24/16 08:30 • (LCSD) R3123588-2 03/24/16 08:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0239	0.0239	95.8	95.8	73.0-122			0.0300	20
Ethylbenzene	0.0250	0.0231	0.0227	92.5	91.0	80.9-121			1.69	20
Methyl tert-butyl ether	0.0250	0.0237	0.0241	94.8	96.6	70.1-125			1.81	20
Naphthalene	0.0250	0.0238	0.0238	95.2	95.1	69.7-134			0.0600	20
Toluene	0.0250	0.0232	0.0225	92.9	89.9	77.9-116			3.23	20
Xylenes, Total	0.0750	0.0666	0.0667	88.8	89.0	79.2-122			0.210	20
(S) Toluene-d8				*103*	*102*	*90.0-115*				
(S) Dibromofluoromethane				*100*	*105*	*79.0-121*				
(S) α,α,α-Trifluorotoluene				*97.3*	*99.0*	*90.4-116*				
(S) 4-Bromofluorobenzene				*93.8*	*97.1*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L824591-06 03/24/16 17:46 • (MS) R3123588-6 03/24/16 18:06 • (MSD) R3123588-7 03/24/16 18:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	ND	0.0251	0.0247	101	98.6	1	58.6-133			1.93	20
Ethylbenzene	0.0250	ND	0.0240	0.0238	96.1	95.2	1	62.7-136			0.920	20

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L824591-06 03/24/16 17:46 • (MS) R3123588-6 03/24/16 18:06 • (MSD) R3123588-7 03/24/16 18:26

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methyl tert-butyl ether	0.0250	ND	0.0270	0.0265	108	106	1	61.4-136			1.80	20
Naphthalene	0.0250	0.000266	0.0261	0.0261	103	103	1	61.8-143			0.250	20
Toluene	0.0250	ND	0.0236	0.0234	94.4	93.4	1	67.8-124			1.08	20
Xylenes, Total	0.0750	ND	0.0694	0.0687	92.5	91.5	1	65.6-133			1.07	20
(S) Toluene-d8					*102*	*104*		*90.0-115*				
(S) Dibromofluoromethane					*105*	*107*		*79.0-121*				
(S) a,a,a-Trifluorotoluene					*96.4*	*101*		*90.4-116*				
(S) 4-Bromofluorobenzene					*98.2*	*98.1*		*80.1-120*				

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
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

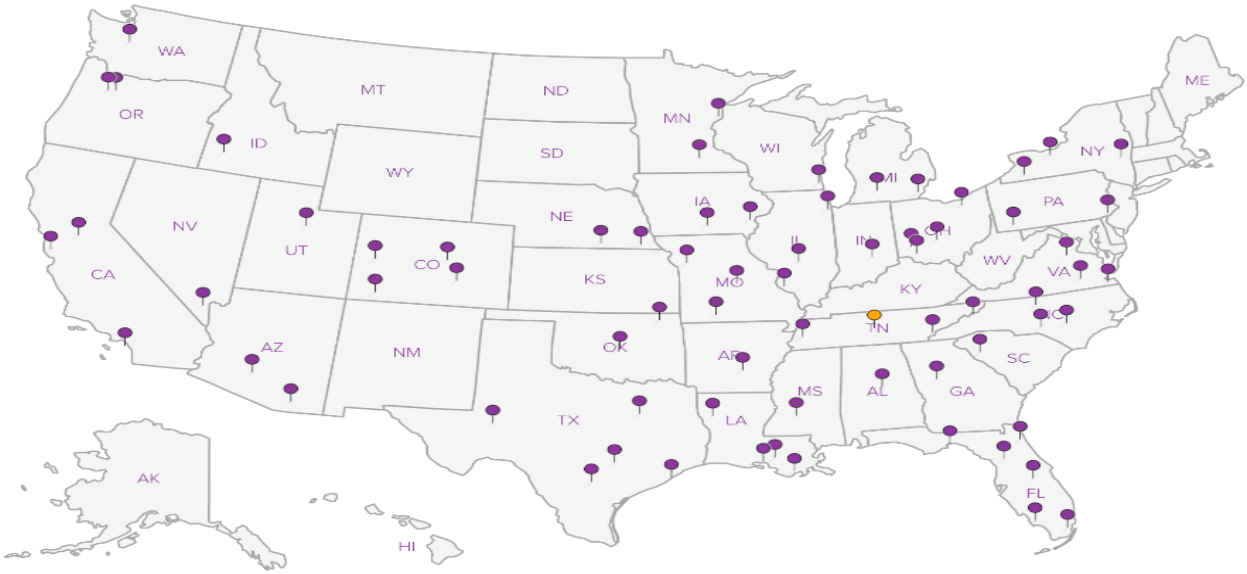
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

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.**



Company Name/Address:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151

Billing Information:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151
GREENENVA120914S

Report to: Trev Greene

Email To: tgreene@greene-environmental.com

Project Description: Meadows of Dan Food Market

City/State Collected: VA

Phone: 540-483-3311
Fax: 540-483-3381

Client Project #: FMMD1007

Lab Project #

Collected by (print): CH

Site/Facility ID #

P.O. #: GREENENVA120914S

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LABS
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L823971
I164

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via: FEDEX

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX, MTBE, Naphthalene via 8021	TPH-GRO via 8015	BTEX, MTBE via Method 18	TVPH via Method 18	BTEX, MTBE, Naphthalene, Ethanol via V8260	pH	VOCs via 8260				Rem./Contaminant	Sample # (lab only)
INF05	Grab	GW		03/15/16	1215	4	X	X										-01
EFF05	Grab	GW		03/15/16	1220	7		X			X	X						-02
RCP05	Grab	Air		03/15/16	1245	1			X	X								-03
AS05	Grab	Air		03/15/16	1250	1			X	X								-04
DW19	Grab	GW		03/15/16	1345	4							X					-05

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

6645 0393 3474

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Carl Harris	3/16/16	0900	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mc Terns

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: Amb °C Bottles Received: 17

Date: 3-17-16 Time: 900

Condition: (lab use only) GOOD

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

ANALYTICAL REPORT

March 31, 2016

Greene Env. Services, LLC

Sample Delivery Group:	L825190
Samples Received:	03/24/2016
Project Number:	FMMD1007
Description:	Meadows of Dan Food Market
Report To:	Mr. Trev Greene 129 Bunny Ridge Lane Rocky Mount, VA 24151

Entire Report Reviewed By:

Terrie Fudge
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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INF06 L825190-01 GW

Collected by: AF | Collected date/time: 03/22/16 17:05 | Received date/time: 03/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG859082	100	03/25/16 00:54	03/25/16 00:54	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860519	1000	03/30/16 14:54	03/30/16 14:54	BMB

EFF06 L825190-02 GW

Collected by: AF | Collected date/time: 03/22/16 17:15 | Received date/time: 03/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG859082	1	03/25/16 01:15	03/25/16 01:15	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860519	1	03/30/16 15:13	03/30/16 15:13	BMB

RCP06 L825190-03 Air

Collected by: AF | Collected date/time: 03/22/16 16:55 | Received date/time: 03/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG858973	1000	03/24/16 19:38	03/24/16 19:38	MBF
Volatile Organic Compounds (MS) by Method M18-Mod	WG859272	10000	03/25/16 16:10	03/25/16 16:10	SNH
Volatile Organic Compounds (MS) by Method M18-Mod	WG859568	40000	03/26/16 17:01	03/26/16 17:01	MBF

AS06 L825190-04 Air

Collected by: AF | Collected date/time: 03/22/16 17:00 | Received date/time: 03/24/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG858973	100	03/24/16 20:22	03/24/16 20:22	MBF
Volatile Organic Compounds (MS) by Method M18-Mod	WG859272	1000	03/25/16 16:54	03/25/16 16:54	SNH
Volatile Organic Compounds (MS) by Method M18-Mod	WG859568	4000	03/26/16 17:49	03/26/16 17:49	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.

Terrie Fudge

Terrie Fudge
Technical Service Representative

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	160000		3140	10000	100	03/25/2016 00:54	WG859082
(S) α,α,α-Trifluorotoluene(FID)	*96.8*			*62.0-128*		*03/25/2016 00:54*	WG859082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	1210		331	1000	1000	03/30/2016 14:54	WG860519
Toluene	18300		780	5000	1000	03/30/2016 14:54	WG860519
Ethylbenzene	4630		384	1000	1000	03/30/2016 14:54	WG860519
Total Xylenes	26800		1060	3000	1000	03/30/2016 14:54	WG860519
Methyl tert-butyl ether	1670		367	1000	1000	03/30/2016 14:54	WG860519
Naphthalene	1140	J	1000	5000	1000	03/30/2016 14:54	WG860519
(S) Toluene-d8	*105*			*90.0-115*		*03/30/2016 14:54*	WG860519
(S) Dibromofluoromethane	*114*			*79.0-121*		*03/30/2016 14:54*	WG860519
(S) α,α,α-Trifluorotoluene	*98.8*			*90.4-116*		*03/30/2016 14:54*	WG860519
(S) 4-Bromofluorobenzene	*97.6*			*80.1-120*		*03/30/2016 14:54*	WG860519

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	141		31.4	100	1	03/25/2016 01:15	WG859082
(S) α,α,α-Trifluorotoluene(FID)	*97.8*			*62.0-128*		*03/25/2016 01:15*	WG859082

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.331	1.00	1	03/30/2016 15:13	WG860519
Toluene	U		0.780	5.00	1	03/30/2016 15:13	WG860519
Ethylbenzene	U		0.384	1.00	1	03/30/2016 15:13	WG860519
Total Xylenes	U		1.06	3.00	1	03/30/2016 15:13	WG860519
Methyl tert-butyl ether	197	V	0.367	1.00	1	03/30/2016 15:13	WG860519
Naphthalene	U		1.00	5.00	1	03/30/2016 15:13	WG860519
(S) Toluene-d8	*107*			*90.0-115*		*03/30/2016 15:13*	WG860519
(S) Dibromofluoromethane	*112*			*79.0-121*		*03/30/2016 15:13*	WG860519
(S) α,α,α-Trifluorotoluene	*99.3*			*90.4-116*		*03/30/2016 15:13*	WG860519
(S) 4-Bromofluorobenzene	*96.6*			*80.1-120*		*03/30/2016 15:13*	WG860519

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	200	639	27100	86600		1000	WG858973
Toluene	108-88-3	92.10	8000	30100	766000	2890000		40000	WG859568
Ethylbenzene	100-41-4	106	2000	8670	109000	472000		10000	WG859272
m&p-Xylene	1330-20-7	106	4000	17300	325000	1410000		10000	WG859272
o-Xylene	95-47-6	106	2000	8670	113000	489000		10000	WG859272
Methyl tert-butyl ether	1634-04-4	88.10	200	721	3410	12300		1000	WG858973
TPH (GC/MS) Low Fraction	8006-61-9	101	500000	2070000	7230000	29900000		10000	WG859272
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG858973

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	20.0	63.9	3770	12000		100	WG858973
Toluene	108-88-3	92.10	800	3010	67100	253000		4000	WG859568
Ethylbenzene	100-41-4	106	200	867	13200	57200		1000	WG859272
m&p-Xylene	1330-20-7	106	400	1730	42000	182000		1000	WG859272
o-Xylene	95-47-6	106	200	867	19700	85400		1000	WG859272
Methyl tert-butyl ether	1634-04-4	88.10	20.0	72.1	4040	14600		100	WG858973
TPH (GC/MS) Low Fraction	8006-61-9	101	5000	20700	178000	734000		100	WG858973
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG858973

Method Blank (MB)

(MB) R3123661-3 03/24/16 09:37

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0460	0.200
MTBE	U		0.0505	0.200
TPH (GC/MS) Low Fraction	9.32		6.91	50.0
(S) 1,4-Bromofluorobenzene	*95.1*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3123661-1 03/24/16 08:10 • (LCSD) R3123661-2 03/24/16 08:53

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	3.26	3.31	86.9	88.3	70.0-130			1.60	25
Benzene	3.75	3.78	3.75	101	99.9	70.0-130			0.810	25
TPH (GC/MS) Low Fraction	150	153	151	102	101	70.0-130			1.17	25
(S) 1,4-Bromofluorobenzene				*101*	*99.9*	*60.0-140*				

Method Blank (MB)

(MB) R3123869-3 03/25/16 10:09

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Ethylbenzene	U		0.0506	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
TPH (GC/MS) Low Fraction	U		6.91	50.0

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3123869-1 03/25/16 08:36 • (LCSD) R3123869-2 03/25/16 09:21

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	3.75	3.95	3.97	105	106	70.0-130			0.610	25
m&p-Xylene	7.50	7.76	7.83	103	104	70.0-130			0.870	25
o-Xylene	3.75	3.95	3.95	105	105	70.0-130			0.0700	25
TPH (GC/MS) Low Fraction	150	156	158	104	105	70.0-130			0.890	25

Method Blank (MB)

(MB) R3124102-3 03/26/16 12:57

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Toluene	U		0.0499	0.200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3124102-1 03/26/16 11:25 • (LCSD) R3124102-2 03/26/16 12:10

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Toluene	3.75	4.66	4.73	124	126	70.0-130			1.46	25

Method Blank (MB)

(MB) R3124161-3 03/24/16 20:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) α,α,α-Trifluorotoluene(FID)	*99.3*			*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3124161-1 03/24/16 19:40 • (LCSD) R3124161-2 03/24/16 20:01

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.83	5.95	106	108	67.0-132			2.05	20
(S) α,α,α-Trifluorotoluene(FID)				*99.3*	*99.4*	*62.0-128*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L825064-11 03/24/16 22:07 • (MS) R3124161-4 03/24/16 21:04 • (MSD) R3124161-5 03/24/16 21:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	3.85	3.89	70.0	70.7	1	50.0-143			0.980	20
(S) α,α,α-Trifluorotoluene(FID)					*99.9*	*99.5*		*62.0-128*				

Method Blank (MB)

(MB) R3124923-3 03/30/16 04:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Ethylbenzene	U		0.000384	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
Toluene	U		0.000780	0.00500
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*104*		*90.0-115*	
(S) Dibromofluoromethane	*115*		*79.0-121*	
(S) α,α,α-Trifluorotoluene	*96.5*		*90.4-116*	
(S) 4-Bromofluorobenzene	*98.3*		*80.1-120*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3124923-1 03/30/16 03:28 • (LCSD) R3124923-2 03/30/16 03:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0247	0.0243	98.8	97.0	73.0-122			1.83	20
Ethylbenzene	0.0250	0.0223	0.0222	89.2	88.9	80.9-121			0.240	20
Methyl tert-butyl ether	0.0250	0.0252	0.0261	101	104	70.1-125			3.50	20
Naphthalene	0.0250	0.0204	0.0225	81.6	89.9	69.7-134			9.66	20
Toluene	0.0250	0.0227	0.0229	90.8	91.7	77.9-116			1.07	20
Xylenes, Total	0.0750	0.0638	0.0654	85.0	87.2	79.2-122			2.52	20
(S) Toluene-d8				*108*	*107*	*90.0-115*				
(S) Dibromofluoromethane				*115*	*114*	*79.0-121*				
(S) α,α,α-Trifluorotoluene				*97.2*	*97.0*	*90.4-116*				
(S) 4-Bromofluorobenzene				*100*	*102*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L825190-02 03/30/16 15:13 • (MS) R3124923-4 03/30/16 16:11 • (MSD) R3124923-5 03/30/16 16:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	ND	0.0256	0.0257	102	103	1	58.6-133			0.360	20
Ethylbenzene	0.0250	ND	0.0230	0.0231	91.8	92.4	1	62.7-136			0.640	20
Methyl tert-butyl ether	0.0250	0.197	0.213	0.213	63.8	60.7	1	61.4-136		V	0.360	20

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L825190-02 03/30/16 15:13 • (MS) R3124923-4 03/30/16 16:11 • (MSD) R3124923-5 03/30/16 16:30

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.000153	0.0226	0.0250	89.6	99.5	1	61.8-143			10.4	20
Toluene	0.0250	0.000523	0.0241	0.0244	94.4	95.3	1	67.8-124			0.990	20
Xylenes, Total	0.0750	0.000738	0.0672	0.0684	88.6	90.2	1	65.6-133			1.80	20
(S) Toluene-d8					*107*	*108*		*90.0-115*				
(S) Dibromofluoromethane					*112*	*111*		*79.0-121*				
(S) α,α,α-Trifluorotoluene					*98.2*	*98.9*		*90.4-116*				
(S) 4-Bromofluorobenzene					*100*	*102*		*80.1-120*				

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
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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

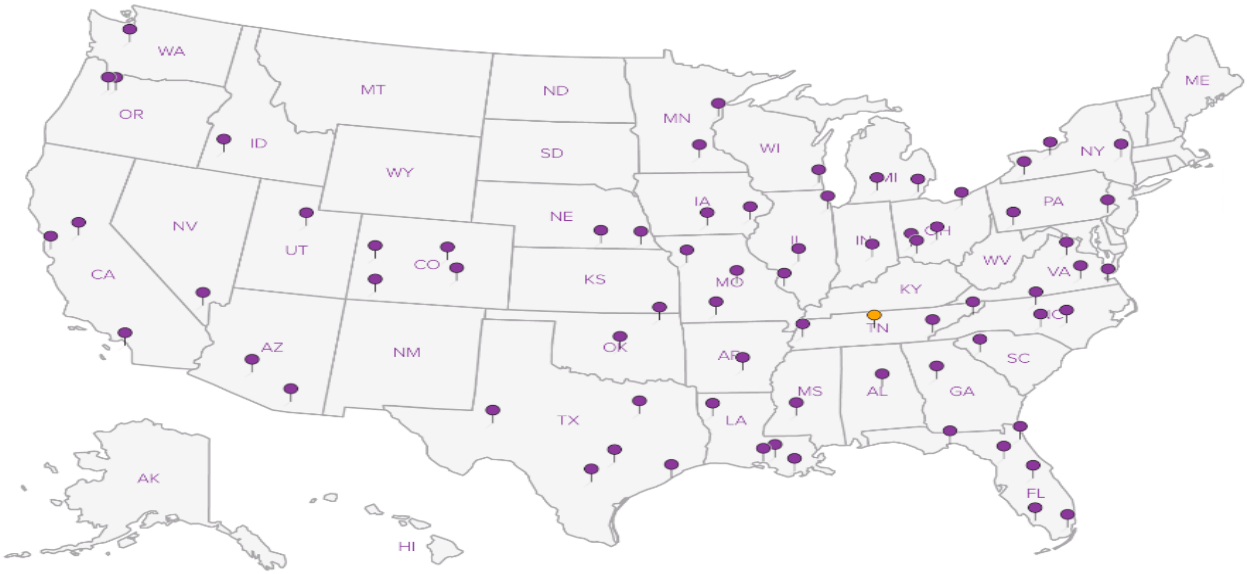
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

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.**



Company Name/Address:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151

Billing Information:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151
GREENENVA120914S

Report to: Trev Greene

Email To: tgreene@greene-environmental.com

Project Description: Meadows of Dan Food Market

City/State Collected: VA

Phone: 540-483-3311
Fax: 540-483-3381

Client Project #: FMMD1007

Lab Project #

Collected by (print): AF

Site/Facility ID #

P.O. #: GREENENVA120914S

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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# 1825190
F053
Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via: FEDEX

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX, MTBE, Naphthalene via 8021	TPH-GRO via 8015	BTEX, MTBE via Method 18	TVPH via Method 18							Rem./Contaminant	Sample # (lab only)
INF06	Grab	GW		03/22/16	1705	4	X	X										-01
EFF06	Grab	GW		03/22/16	1715	4	X	X										02
RCP06	Grab	Air		03/22/16	1655	1			X	X								03
AS06	Grab	Air		03/22/16	1700	1			X	X								04

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks:

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	3-23-16	1100			DMIO 02
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature) 6617 3614 9745	Temp: 2.8 °C Bottles Received: 10	COC Seal Intact: ✓Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-24-16 Time: 0900	pH Checked: NCF:

ANALYTICAL REPORT

April 01, 2016

Greene Env. Services, LLC

Sample Delivery Group:	L826572
Samples Received:	03/31/2016
Project Number:	FMMD1007
Description:	The Meadows of Dan Food Market
Report To:	Mr.Trev Greene 129 Bunny Ridge Lane Rocky Mount, VA 24151

Entire Report Reviewed By:

Terrie Fudge
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.

TABLE OF CONTENTS

[1]Cp: Cover Page 1

[2]Tc: Table of Contents 2

[3]Ss: Sample Summary 3

[4]Cn: Case Narrative 4

[5]Sr: Sample Results 5

RCP07 L826572-01 5

[6]Qc: Quality Control Summary 6

Volatile Organic Compounds (MS) by Method M18-Mod 6

[7]Gl: Glossary of Terms 7

[8]Al: Accreditations & Locations 8

[9]Sc: Chain of Custody 9

RCP07 L826572-01 Air

Collected by	Collected date/time	Received date/time
AF	03/25/16 10:00	03/31/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method M18-Mod	WG860844	4000	04/01/16 00:00	04/01/16 00:00	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.

Terrie Fudge

Terrie Fudge
Technical Service Representative

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	800	2560	21100	67400		4000	WG860844
Toluene	108-88-3	92.10	800	3010	188000	709000		4000	WG860844
Ethylbenzene	100-41-4	106	800	3470	32300	140000		4000	WG860844
m&p-Xylene	1330-20-7	106	1600	6940	94700	411000		4000	WG860844
o-Xylene	95-47-6	106	800	3470	33700	146000		4000	WG860844
Methyl tert-butyl ether	1634-04-4	88.10	800	2880	4520	16300		4000	WG860844
TPH (GC/MS) Low Fraction	8006-61-9	101	200000	826000	1510000	6240000		4000	WG860844
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*94.1*				WG860844

Method Blank (MB)

(MB) R3125475-3 03/31/16 09:27

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0460	0.200
Ethylbenzene	U		0.0506	0.200
MTBE	U		0.0505	0.200
Toluene	U		0.0499	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
TPH (GC/MS) Low Fraction	U		6.91	50.0
(S) 1,4-Bromofluorobenzene	*92.5*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3125475-1 03/31/16 07:56 • (LCSD) R3125475-2 03/31/16 08:41

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MTBE	3.75	4.30	4.24	115	113	70.0-130			1.29	25
Benzene	3.75	4.36	4.39	116	117	70.0-130			0.520	25
Toluene	3.75	4.49	4.44	120	118	70.0-130			1.31	25
Ethylbenzene	3.75	4.39	4.36	117	116	70.0-130			0.620	25
m&p-Xylene	7.50	8.39	8.48	112	113	70.0-130			1.06	25
o-Xylene	3.75	4.29	4.35	114	116	70.0-130			1.43	25
TPH (GC/MS) Low Fraction	150	152	151	101	100	70.0-130			0.890	25
(S) 1,4-Bromofluorobenzene				*93.6*	*94.6*	*60.0-140*				

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.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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
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Wyoming	A2LA

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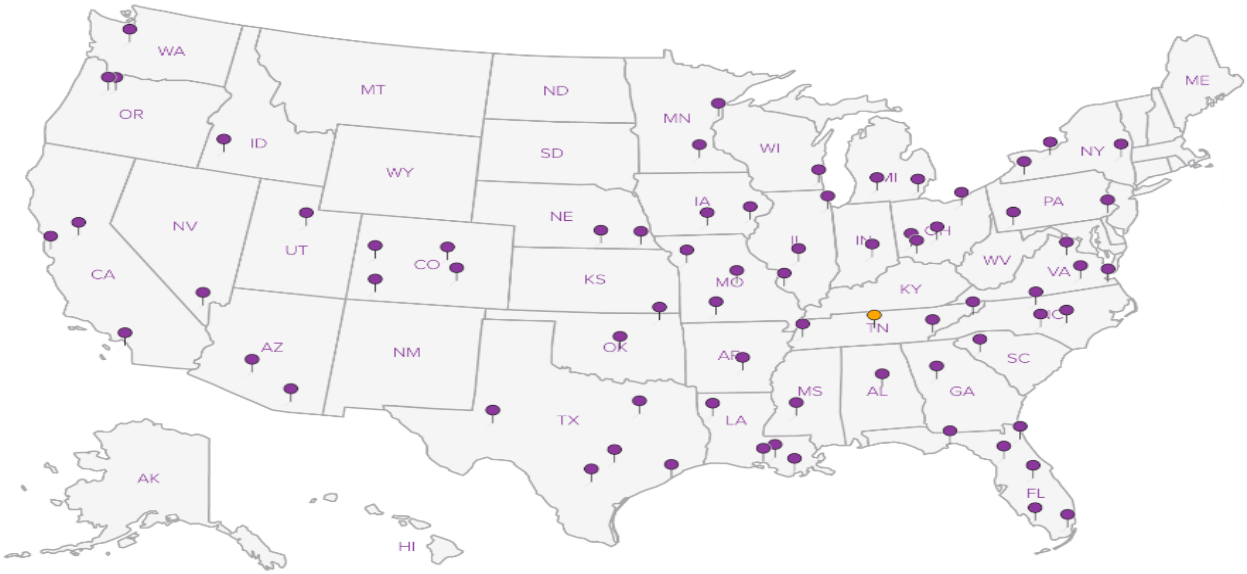

Company Name/Address:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151

Billing Information:
Greene Environmental
200 Buckwheat Lane
Rocky Mount, VA 24151
GREENENVA120914S

Report to: Trev Greene

Email To: tgreene@greene-environmental.com

Project Description: Meadows of Dan Food Market

City/State Collected: VA

Phone: 540-483-3311
Fax: 540-483-3381

Client Project # FMMD1007

Lab Project #

Collected by (print): AF

Site/Facility ID #

P.O. # GREENENVA120914S

Collected by (signature):

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

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# L826572
A098

Acctnum:
Template:
Prelogin:
TSR:
PB:

Shipped Via: FEDEX

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX, MTBE via Method 18	TVPH via Method 18									Rem./Contaminant	Sample # (lab only)
RCP07	Grab	Air		03/25/16	1000	1	X	X										-01

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
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: Amb °C Bottles Received: Ziplock

Date: 3/31/16 Time: 900

Condition: (lab use only) GOOD

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

6645 0393 3831

APPENDIX D

Air Exhaust Stream Data

VA DEQ Stationary Source Permit to Construct and Operate
CAP IMP SP2 Monthly Air Emissions Calculations

COMMONWEALTH of VIRGINIA

David K. Paylor
Director

Molly Joseph Ward
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Blue Ridge Regional Office
www.deq.virginia.gov

Robert J. Weld
Regional Director

Lynchburg Office
7705 Timberlake Road
Lynchburg, Virginia 24502
(434) 582-5120
Fax (434) 582-5125

Roanoke Office
3019 Peters Creek Road
Roanoke, Virginia 24019
(540) 562-6700
Fax (540) 562-6725

October 20, 2015

Mr. Marshall Adam Flora
Project Manager
Greene Environmental Services, LLC
200 Buckwheat Lane
Rocky Mount, VA 24151

Location: Patrick County, VA
Registration No.: 21600

Dear Mr. Flora:

Attached is a permit to construct and operate a dual phase extraction system in accordance with the provisions of the Virginia Regulations for the Control and Abatement of Air Pollution.

In the course of evaluating the application and arriving at a final decision to approve the project, the Department of Environmental Quality (DEQ) deemed the application complete on October 13, 2015.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

This permit approval to construct and operate shall not relieve the Meadows of Dan Food Market of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. 9 VAC 5-170-200 provides that you may request direct consideration of the decision by the Board if the Director of the DEQ made the decision. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever

occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director
Department of Environmental Quality
P. O. Box 10009
Richmond, VA 23240-0009

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please contact Margaret O. Wagner at 540-562-6700.

Sincerely,

Robert J. Weld
Regional Director

Attachment: Permit

cc: Frank Adams, Air Compliance Manager

COMMONWEALTH of VIRGINIA

David K. Paylor
Director

Molly Joseph Ward
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Blue Ridge Regional Office
www.deq.virginia.gov

Robert J. Weld
Regional Director

Lynchburg Office
7705 Timberlake Road
Lynchburg, Virginia 24502
(434) 582-5120
Fax (434) 582-5125

Roanoke Office
3019 Peters Creek Road
Roanoke, Virginia 24019
(540) 562-6700
Fax (540) 562-6725

STATIONARY SOURCE PERMIT TO CONSTRUCT AND OPERATE

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

The Meadows of Dan Food Market
2609 Jeb Stuart Highway
Meadows of Dan, VA 24120
Registration No.: 21600

is authorized to construct and operate

a dual-phase extraction system

located at

the Meadows of Dan Food Market at 2609 Jeb Stuart Highway,
Meadows of Dan, VA

in accordance with the Conditions of this permit.

Approved on October 20, 2015

Robert J. Weld
Regional Director

Permit consists of 6 pages.
Permit Conditions 1 to 16.

INTRODUCTION

This permit approval is based on the permit application dated June 30, 2015 with supplemental information received on August 6, 2015, August 28, 2015 and October 13, 2015. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-20 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the Virginia Department of Environmental Quality (DEQ) or the State Air Pollution Control Board (Board) for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

Equipment List - Equipment at this facility consists of:

Equipment to be Constructed			
Reference No.	**Equipment Description**	**Rated Capacity**	**Federal Requirements**
DPE - 1	Dual Phase Extraction System equipped with a 3-Ohio Medical Corporation rotary claw vacuum pumps (operated in parallel)	765 ACFM at 15" Hg vacuum	N/A
2	4 tray-EZ Tray Steel Air Stripper	25 gpm 140 SCFM	

Specifications included in the above table are for informational purposes only and do not form enforceable terms or conditions of the permit.
(9 VAC 80-1180 D 3)

PROCESS REQUIREMENTS

1. **VOC Work Practice Standards** – At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
(9 VAC 5-80-1180 and 9 VAC 5-50-20 F)

2. **Emissions Monitoring** – Sampling of the exhaust stream from the DPE shall be conducted and mass removal calculations shall be performed monthly to determine compliance with the emissions limit in Condition 4.
(9 VAC 5-80-1180 and 9 VAC 5-50-30 F)

3. **Emissions Testing** – The DPE shall be constructed to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.
(9 VAC 5-80-1180 and 9 VAC 5-50-30 F)

EMISSION LIMITS

4. **Process Emission Limits** - Emissions from the operation of the DPE shall not exceed the limits specified below:

Volatile Organic Compounds	65 tons/yr

The annual emissions shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. Compliance with this emission limit may be determined as stated in Condition 6.
(9 VAC 5-80-1180)

5. **Visible Emission Limit** - Visible emissions from the DPE shall not exceed five percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed ten percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A. This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-1180 and 9 VAC 5-50-260)

RECORDS

6. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

   a. Monthly and annual VOC emissions from the DPE to verify compliance with the ton/yr emission limitation in Condition 4. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. VOC emissions shall be calculated using methods approved in Attachment A to this permit.

   b. Notifications required in Condition 7.

   These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
   (9 VAC 5-80-1180 and 9 VAC 5-50-50)

NOTIFICATIONS

7. **Initial Notifications** - The permittee shall furnish written notification to the Blue Ridge Regional Office of:

   a. The actual date on which construction of the DPE commenced within 30 days after such date.

   b. The actual start-up date of the DPE within 15 days after such date.

   (9 VAC 5-80-1180 and 9 VAC 5-50-50)

GENERAL CONDITIONS

8. **Permit Invalidation** – This permit to construct the DPE shall become invalid, unless an extension is granted by the DEQ, if:

   a. A program of continuous construction is not commenced within 18 months from the date of this permit; or,

   b. A program of construction is discontinued for a period of 18 months or more, or is not completed within a reasonable time, except for a DEQ approved period between phases of a phased construction project.

   (9 VAC 5-80-1210)

9. **Permit Suspension/Revocation** - This permit may be suspended or revoked if the permittee:

   a. Knowingly makes material misstatements in the permit application or any amendments to it;

   b. Fails to comply with the conditions of this permit;

   c. Fails to comply with any emission standards applicable to a permitted emissions unit;

   d. Causes emissions from the stationary source which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard; or

   e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

   (9 VAC 5-80-1210 F)

10. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

    a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;

    b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;

    c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and

    d. To sample or test at reasonable times.

    For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.
    (9 VAC 5-170-130 and 9 VAC 5-80-1180)

11. **Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.
    (9 VAC 5-50-20 E and 9 VAC 5-80-1180 D)

12. **Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.
(9 VAC 5-20-180 J and 9 VAC 5-80-1180 D)

13. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Blue Ridge Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Blue Ridge Regional Office.
(9 VAC 5-20-180 C and 9 VAC 5-80-1180)

14. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9 VAC 5-20-180 I and 9 VAC 5-80-1180)

15. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Regional Director, Blue Ridge Regional Office of the change of ownership within 30 days of the transfer.
(9 VAC 5-80-1240)

16. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-1180)

CALCULATION SHEET
MONTHLY AIR EMISSIONS

PROBLEM:

Calculate the monthly air emissions as required by the VA DEQ Stationary Source Permit to Construct and Operate. As stated in the permit emissions from the operation of the DPE remediation system will not exceed 65 tons per year.

GIVEN:

Rotary Claw Pump Exhaust Average Air Sample Results

Air Stripper Exhaust Average Air Sample Results

Approximate RCP Exhaust Flow Rates

Approximate Air Stripper Flow Rates

Hours of operation

Conversion factor: $\frac{1mg}{M^3} = \frac{2.2046226218e{-6}\ \text{lbs}}{35.314\ 666\ 721\ \text{ft}^3}$

SOLUTION:

Using the site-specific information collected during operation of the DPE remediation system, monthly emissions have been calculated.

Reporting Period	System Component	Average TVPH (mg/m^3)	Calculated Monthly Emissions (tons)	Total Monthly Emissions (tons)	Total Emissions to Date (tons)	Predicted Total Annual Emissions (tons)	Annual Exemption Rate (tons/year)
02/22/16-02/29/16	RCP Exhaust	8,695	0.66	0.68	0.68	8.16	65
	Air Stripper Exhaust	502.59	0.015				
03/01/16-03/31/16	RCP Exhaust	9,198	4.42	4.46	5.14	30.84	65
	Air Stripper Exhaust	260.45	0.038				

(Calculations performed in Excel Spreadsheet)

Note: These calculations should be considered estimates as they are an extrapolation of lab data representing a few seconds of exhaust flow over multiday exhaust discharges.

APPENDIX E

General VPDES Permit VAG83

VA DEQ Coverage Letter Dated June 2, 2015
CAP IMP SP2 Discharge Monitoring Reports

COMMONWEALTH of VIRGINIA

David K. Paylor
Director

Molly Joseph Ward
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Blue Ridge Regional Office
www.deq.virginia.gov

Robert J. Weld
Regional Director

Lynchburg Office
7705 Timberlake Road
Lynchburg, Virginia 24502
(434) 582-5120
Fax (434) 582-5125

Roanoke Office
3019 Peters Creek Road
Roanoke, Virginia 24019
(540) 562-6700
Fax (540) 562-6725

June 2, 2015

Mr. Marshall Adam Flora
Project Manager
Greene Environmental Services, LLC
129 Bunny Ridge Lane
Rocky Mount, VA 24151

RE: Coverage under the General VPDES Permit for Discharges from Petroleum Contaminated Sites, Groundwater Remediation, and Hydrostatic Tests, VAG830483, Meadows of Dan Food Market, 2609 Jeb Stuart Highway, Meadows of Dan, PC 2014-2256

Dear Mr. Flora;

We have reviewed your Registration Statement received on May 26, 2015, and determined that the discharge outlined on that statement is hereby covered under the referenced general VPDES permit. The effective date of your coverage under this general permit is the date of this letter. The enclosed copy of the general permit contains the applicable effluent limitations, monitoring requirements and other conditions of coverage.

The permit requires effluent sampling on a monthly basis and reporting on a monthly basis. Discharge Monitoring Reports (DMRs) that you may use to report sampling results are enclosed. You are responsible for making additional copies of the DMR as needed. Separate DMRs must be completed for each permitted outfall and DMRs must be submitted for each outfall regardless of whether a discharge from that outfall occurred during the previous month. If a discharge did not occur from a particular outfall during the previous month, please write "no discharge" on the DMR. You are required to submit completed DMRs by the 10th of each month to:

Cathy Kibler
VA DEQ
3019 Peters Creek Road
Roanoke, VA 24019

Information provided on the registration statement indicates that wastewater will be discharged through a treatment works. Within 30 days of the date of this letter, you are required to develop and maintain on site an Operation and Maintenance (O&M) Manual for this permitted treatment works (see Part I.B.3 of the Permit).

This general permit will expire on February 28, 2018. The conditions of the permit require that you submit a new registration statement no later than 30 days prior to the date of permit expiration if you wish to continue coverage under the permit.

If you wish to terminate permit coverage for inactive outfalls or the entire site, please fill out the enclosed Termination of Coverage Request form and send it to Lewis Pillis at the address for the Roanoke office listed above.

Please review the enclosed materials carefully. If you have any questions, please contact Lewis Pillis at lewis.pillis@deq.virginia.gov or at 540-562-6789.

Sincerely,

Kip D. Foster
Water Permit Manager

Enclosures:
Discharge Monitoring Report
VPDES Permit No. VAG830483
Termination of Coverage Request form

cc: Lewis Pillis, DEQ, BRRO-R (electronic)
Doug Carl, DEQ, BRRO-R (electronic)

06/01/2015

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
PETROLEUM DISCHARGE PERMIT
DISCHARGE MONITORING REPORT(DMR)

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Meadows Of Dan Food Mart
ADDRESS

FACILITY LOCATION 2609 JEB Stuart Hwy
Meadows Of Dan VA 24120

VAG830483	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2015	07	01	TO	2015	07	31

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke VA 24019

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED	*********	NA	NA	*********	*********	*********				
	REQUIREMENT	*********	NL	GPD	*********	*********	*********			1/M	EST
002 pH	REPORTED	*********	*********	NA	NA	*********	NA				
	REQUIREMENT	*********	*********	NA	6.0	*********	9.0	SU		1/M	GRAB
146 ETHANOL	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4100.0	UG/L		1/M	GRAB
172 ETHYLBENZENE	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4.3	UG/L		1/M	GRAB
216 BENZENE (AS C6H6)	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	12.0	UG/L		1/M	GRAB
222 TOLUENE (AS C7H8)	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	43.0	UG/L		1/M	GRAB
331 METHYL-TERT-BUTYL ETHER	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	440.0	UG/L		1/M	GRAB
745 TOTAL XYLENES	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	33.0	UG/L		1/M	GRAB

Additional DMR Comments:

No discharge for this monitoring period.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
	NA	NA	NA	Marshall Adam Flora		NA	2015	08	06
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				Marshall Adam Flora		(540) 483-3311	2015	08	06
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

06/01/2015

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Meadows Of Dan Food Mart
ADDRESS

FACILITY LOCATION 2609 JEB Stuart Hwy
Meadows Of Dan VA 24120

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
PETROLEUM DISCHARGE PERMIT
DISCHARGE MONITORING REPORT(DMR)

VAG830483	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2015	08	01	TO	2015	08	31

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke VA 24019

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM**

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		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED	*********	NA	NA	*********	*********	*********				
	REQUIREMENT	*********	NL	GPD	*********	*********	*********			1/M	EST
002 pH	REPORTED	*********	*********	NA	NA	*********	NA				
	REQUIREMENT	*********	*********	NA	6.0	*********	9.0	SU		1/M	GRAB
146 ETHANOL	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4100.0	UG/L		1/M	GRAB
172 ETHYLBENZENE	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4.3	UG/L		1/M	GRAB
216 BENZENE (AS C6H6)	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	12.0	UG/L		1/M	GRAB
222 TOLUENE (AS C7H8)	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	43.0	UG/L		1/M	GRAB
331 METHYL-TERT-BUTYL ETHER	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	440.0	UG/L		1/M	GRAB
745 TOTAL XYLENES	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	33.0	UG/L		1/M	GRAB

Additional DMR Comments:

No discharge for this monitoring period.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)
	NA	NA	NA

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
Marshall Adam Flora	MAF	NA	2015	09	10
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
Marshall Adam Flora	MAF	(540) 483-3311	2015	09	10
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Meadows Of Dan Food Mart
ADDRESS

FACILITY LOCATION 2609 JEB Stuart Hwy
Meadows Of Dan VA 24120

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
PETROLEUM DISCHARGE PERMIT
DISCHARGE MONITORING REPORT(DMR)

06/01/2015

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(REGIONAL OFFICE)
Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke VA 24019

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

PERMIT NUMBER	DISCHARGE NUMBER
VAG830483	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2015	09	01	TO	2015	09	30

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED	*********	NA	NA	*********	*********	*********				
	REQUIREMENT	*********	NL	GPD	*********	*********	*********			1/M	EST
002 pH	REPORTED	*********	*********	NA	NA	*********	NA				
	REQUIREMENT	*********	*********	NA	6.0	*********	9.0	SU		1/M	GRAB
146 ETHANOL	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4100.0	UG/L		1/M	GRAB
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	REQUIREMENT	*********	*********	NA	*********	*********	12.0	UG/L		1/M	GRAB
222 TOLUENE (AS C7H8)	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	43.0	UG/L		1/M	GRAB
331 METHYL-TERT-BUTYL ETHER	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	440.0	UG/L		1/M	GRAB
745 TOTAL XYLENES	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	33.0	UG/L		1/M	GRAB

Additional DMR Comments:

No discharge for this monitoring period.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)
	NA	NA	NA

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OPERATOR IN RESPONSIBLE CHARGE			DATE		
Marshall Adam Flora	[signature]	NA	2015	10	07
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
Marshall Adam Flora	[signature]	(540) 483-3311	2015	10	07
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

PETROLEUM DISCHARGE PERMIT
DISCHARGE MONITORING REPORT(DMR)

06/01/2015

VAG830483	001
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FROM	2015	10	01	TO	2015	10	31

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	REQUIREMENT	*********	NL	GPD	*********	*********	*********			1/M	EST
002 pH	REPORTED	*********	*********	NA	NA	*********	NA				
	REQUIREMENT	*********	*********	NA	6.0	*********	9.0	SU		1/M	GRAB
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222 TOLUENE (AS C7H8)	REPORTED	*********	*********	NA	*********	*********	NA				
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331 METHYL-TERT-BUTYL ETHER	REPORTED	*********	*********	NA	*********	*********	NA				
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745 TOTAL XYLENES	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	33.0	UG/L		1/M	GRAB

Additional DMR Comments:

No discharge for this monitoring period.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)
	NA	NA	NA

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OPERATOR IN RESPONSIBLE CHARGE			DATE		
Marshall Adam Flora	Marshall A Flora	NA	2015	11	10
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
Marshall Adam Flora	Marshall A Flora	(540) 483-3311	2015	11	10
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

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PETROLEUM DISCHARGE PERMIT
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06/01/2015

VAG830483	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2015	11	01	TO	2015	11	30

DEPT. OF ENVIRONMENTAL QUALITY
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3019 Peters Creek Road
Roanoke VA 24019

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED	*********	NA	NA	*********	*********	*********				
	REQUIREMENT	*********	NL	GPD	*********	*********	*********			1/M	EST
002 pH	REPORTED	*********	*********	NA	NA	*********	NA				
	REQUIREMENT	*********	*********	NA	6.0	*********	9.0	SU		1/M	GRAB
146 ETHANOL	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4100.0	UG/L		1/M	GRAB
172 ETHYLBENZENE	REPORTED	*********	*********	NA	*********	*********	NA				
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	REQUIREMENT	*********	*********	NA	*********	*********	33.0	UG/L		1/M	GRAB

Additional DMR Comments:

No discharge for this monitoring period.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
	NA	NA	NA	Marshall Adam Flora	MAA Fl	NA	2015	12	8
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				Marshall Adam Flora	MAA Fl	(540) 483-3311	2015	12	8
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Meadows Of Dan Food Mart
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PETROLEUM DISCHARGE PERMIT
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Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke VA 24019

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

PERMIT NUMBER	DISCHARGE NUMBER
VAG830483	001

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2015	12	01	TO	2015	12	31

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED	*********	NA	NA	*********	*********	*********				
	REQUIREMENT	*********	NL	GPD	*********	*********	*********			1/M	EST
002 pH	REPORTED	*********	*********	NA	NA	*********	NA				
	REQUIREMENT	*********	*********	NA	6.0	*********	9.0	SU		1/M	GRAB
146 ETHANOL	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4100.0	UG/L		1/M	GRAB
172 ETHYLBENZENE	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4.3	UG/L		1/M	GRAB
216 BENZENE (AS C6H6)	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	12.0	UG/L		1/M	GRAB
222 TOLUENE (AS C7H8)	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	43.0	UG/L		1/M	GRAB
331 METHYL-TERT-BUTYL ETHER	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	440.0	UG/L		1/M	GRAB
745 TOTAL XYLENES	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	33.0	UG/L		1/M	GRAB

Additional DMR Comments:

No discharge for this monitoring period.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
	NA	NA	NA	Marshall Adam Flora		NA	2016	01	7
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				Marshall Adam Flora		(540) 483-3311	2016	01	7
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

PERMITTEE NAME/ADDRESS(INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME Meadows Of Dan Food Mart
ADDRESS

FACILITY LOCATION 2609 JEB Stuart Hwy
Meadows Of Dan VA 24120

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
PETROLEUM DISCHARGE PERMIT
DISCHARGE MONITORING REPORT(DMR)

06/01/2015

VAG830483	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2016	01	01	TO	2016	01	31

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke VA 24019

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED	*********	NA	NA	*********	*********	*********				
	REQUIREMENT	*********	NL	GPD	*********	*********	*********			1/M	EST
002 pH	REPORTED	*********	*********	NA	NA	*********	NA				
	REQUIREMENT	*********	*********	NA	6.0	*********	9.0	SU		1/M	GRAB
146 ETHANOL	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4100.0	UG/L		1/M	GRAB
172 ETHYLBENZENE	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	4.3	UG/L		1/M	GRAB
216 BENZENE (AS C6H6)	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	12.0	UG/L		1/M	GRAB
222 TOLUENE (AS C7H8)	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	43.0	UG/L		1/M	GRAB
331 METHYL-TERT-BUTYL ETHER	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	440.0	UG/L		1/M	GRAB
745 TOTAL XYLENES	REPORTED	*********	*********	NA	*********	*********	NA				
	REQUIREMENT	*********	*********	NA	*********	*********	33.0	UG/L		1/M	GRAB

Additional DMR Comments:

No discharge for this monitoring period.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
	NA	NA	NA	Marshall Adam Flora	[signature]	NA	2016	02	8
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				Marshall Adam Flora	[signature]	(540) 483-3311	2016	02	8
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

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06/01/2015

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DEPARTMENT OF ENVIRONMENTAL QUALITY
PETROLEUM DISCHARGE PERMIT
DISCHARGE MONITORING REPORT(DMR)

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ADDRESS

FACILITY LOCATION 2609 JEB Stuart Hwy
Meadows Of Dan VA 24120

VAG830483	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2016	02	01	TO	2016	02	29

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)
Blue Ridge Regional Office
3019 Peters Creek Road
Roanoke VA 24019

NOTE: **READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED	*********	7,300	GPD	*********	*********	*********			1/M	EST
	REQUIREMENT	*********	NL	GPD	*********	*********	*********			1/M	EST
002 pH	REPORTED	*********	*********		7.29	*********	7.29	SU	0	1/M	GRAB
	REQUIREMENT	*********	*********		6.0	*********	9.0	SU		1/M	GRAB
146 ETHANOL	REPORTED	*********	*********		*********	*********	3,640	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	4100.0	UG/L		1/M	GRAB
172 ETHYLBENZENE	REPORTED	*********	*********		*********	*********	ND	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	4.3	UG/L		1/M	GRAB
216 BENZENE (AS C6H6)	REPORTED	*********	*********		*********	*********	ND	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	12.0	UG/L		1/M	GRAB
222 TOLUENE (AS C7H8)	REPORTED	*********	*********		*********	*********	ND	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	43.0	UG/L		1/M	GRAB
331 METHYL-TERT-BUTYL ETHER	REPORTED	*********	*********		*********	*********	2.6	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	440.0	UG/L		1/M	GRAB
745 TOTAL XYLENES	REPORTED	*********	*********		*********	*********	ND	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	33.0	UG/L		1/M	GRAB

Additional DMR Comments:

ND = Non Detected at laboratory reported detection limit.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
	NA	NA	NA	Marshall Adam Flora	MAF	NA	2016	03	11
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				Marshall Adam Flora	MAF	(540) 483-3311	2016	03	11
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

PETROLEUM DISCHARGE PERMIT
DISCHARGE MONITORING REPORT(DMR)

06/01/2015

VAG830483	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2016	03	01	TO	2016	03	31

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

Blue Ridge Regional Office
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Roanoke VA 24019

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
001 FLOW	REPORTED	*********	4,370	GPD	*********	*********	*********			1/M	EST
	REQUIREMENT	*********	NL	GPD	*********	*********	*********			1/M	EST
002 pH	REPORTED	*********	*********		7.26	*********	7.26	SU	0	1/M	GRAB
	REQUIREMENT	*********	*********		6.0	*********	9.0	SU		1/M	GRAB
146 ETHANOL	REPORTED	*********	*********		*********	*********	ND	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	4100.0	UG/L		1/M	GRAB
172 ETHYLBENZENE	REPORTED	*********	*********		*********	*********	ND	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	4.3	UG/L		1/M	GRAB
216 BENZENE (AS C6H6)	REPORTED	*********	*********		*********	*********	ND	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	12.0	UG/L		1/M	GRAB
222 TOLUENE (AS C7H8)	REPORTED	*********	*********		*********	*********	ND	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	43.0	UG/L		1/M	GRAB
331 METHYL-TERT-BUTYL ETHER	REPORTED	*********	*********		*********	*********	197	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	440.0	UG/L		1/M	GRAB
745 TOTAL XYLENES	REPORTED	*********	*********		*********	*********	ND	UG/L	0	1/M	GRAB
	REQUIREMENT	*********	*********		*********	*********	33.0	UG/L		1/M	GRAB

Additional DMR Comments:

ND = Non Detected at laboratory reported detection limit.

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE			DATE		
	NA	NA	NA	Marshall Adam Flora		NA	2016	04	08
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
				Marshall Adam Flora		(540) 483-3311	2016	04	08
				TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

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APPENDIX F

Mass Removal & Recovery Time Estimates

Dissolved Phase Petroleum Mass Removal Calculation Sheet
Vapor Phase Petroleum Mass Removal Calculation Sheet
Remediation System Treatment Efficiency Calculation Sheet
Mass Removal Recovery Rate Calculation Sheets
Remaining Petroleum Mass Graph

CALCULATION SHEET

DISSOLVED PHASE CONTAMINATION RECOVERY

PROBLEM:

Calculate a mass of dissolved phase constituent recovered through groundwater capture during Dual Phase Extraction Operation (CAP IMP SP2).

GIVEN:

Average Water Influent Sample Results

Gallons Discharged

Conversion factor: $\frac{1\mu g}{L} = \frac{2.2046226218e{-9}\ \text{lbs}}{0.26417205236\ \text{gallons}}$

SOLUTION:

Using the site-specific information collected during CAP IMP SP2, a calculation of the dissolved phase constituent recovery has been created.

Constituent	Average Concentration (µg/L)	Concentration (Converted to lbs/gal.)	Water Recovery (gallons)	Constituent Recovery (lbs)
Benzene	821.17	6.8529679557E-06	164,620	1.1281
Toluene	11,420	9.5304518839E-05		15.6890
Ethylbenzene	3,035	2.5328302511E-05		4.1695
Xylenes	17,940	1.4971655586E-04		24.6463
MTBE	2,365	1.9736881528E-05		3.2491
TPH-GRO	91,255	7.6155988325E-04		125.3680

(Calculations performed in Excel Spreadsheet)

Note: These calculations should be considered estimates as they are an extrapolation of lab data representing portions of isolated recovery batches over multiday discharge volumes.

CALCULATION SHEET
VAPOR PHASE CONTAMINATION RECOVERY

PROBLEM:

Calculate a mass of vapor phase constituent recovered through extraction of soil vapors during CAP IMP SP2.

GIVEN:

Rotary Claw Pump Exhaust Average Air Sample Results

Approximate RCP Exhaust Flow Rates

Hours of operation

Conversion factor: $\frac{1mg}{M^3} = \frac{2.2046226218e-6 \text{ lbs}}{35.314\,666\,721 \text{ ft}^3}$

SOLUTION:

Using the site-specific information collected during CAP IMP SP2, a calculation of the vapor phase constituent recovery has been created.

Constituent & Average Concentration (mg/M^3)		Concentration (Converted to lbs/ft^3)	Runtime Hours	Approximate Exhaust Flow Rate (SCFM)	Exhaust Volume (ft^3)	Recovery (lbs)
Benzene	49.63	3.18849873E-06	851.4	338.78	17,306,238	55.18
Toluene	836.43	5.37382270E-05				930.01
Ethylbenzene	135.40	8.69907627E-06				150.55
Xylenes	545.84	3.50688969E-05				606.91
MTBE	15.65	1.00546930E-06				17.40
TVPH	9,054.29	5.81712866E-04				10,067.26

(Calculations performed in Excel Spreadsheet)

Note: These calculations should be considered estimates as they are an extrapolation of lab data representing a few seconds of exhaust flow over multiday exhaust discharges.

GREENE ENVIRONMENTAL SERVICES LLC.

CALCULATION SHEET

AIR STRIPPER & LGAC EFFICIENCY

PROBLEM:

Calculate efficiency of the system's air stripper and LGAC vessels at removing individual constituents from process water during CAP IMP SP2.

GIVEN:

Average Water Influent and Effluent Sample Results

Gallons Discharged

Conversion factor: $\frac{1\mu g}{L} = \frac{2.2046226218e{-9}\ \text{lbs}}{0.26417205236\ \text{gallons}}$

SOLUTION:

Using the site-specific information collected during CAP IMP SP2, a calculation of the air stripper and LGAC efficiency by constituent has been created.

Constituent	Corresponding Concentration (µg/L)		Converted Concentration (lbs/gal.)		Water Recovery (gallons)	Constituent Mass (pounds)		Air Stripper Efficiency
	Influent	Effluent	Influent	Effluent		Influent	Effluent	
Benzene	821.17	0.00	6.8529679557E-06	0.00	164,620	1.1281	0.00	100.00%
Toluene	11,420	0.00	9.5304518839E-05	0.00		15.6890	0.00	100.00%
Ethylbenzene	3,035	0.00	2.5328302511E-05	0.00		4.1695	0.00	100.00%
Xylenes	17,940	0.00	1.4971655586E-04	0.00		24.6463	0.00	100.00%
MTBE	2,365	73.77	1.9736881528E-05	6.1561266839E-07		3.2491	0.101342	96.88%
TPH-GRO	91,255	81.67	7.6155988325E-04	6.8154136356E-07		125.3680	0.112195	99.91%

(Calculations performed in Excel Spreadsheet)

Note: These calculations should be considered estimates as they are an extrapolation of lab data representing portions of isolated recovery batches over multiday discharge volumes.

CALCULATION SHEET

DPE Recovery Rate and Period

PROBLEM:

Determine rate of petroleum recovery based on data collected through the end of the second subphase of long-term Dual Phase Extraction Implementation. Also, determine length of DPE application based on recovery rate.

GIVEN:

Petroleum Mass Prior to CAP IMP SP2 =	81,698
Petroleum Mass Estimate After CAP IMP SP2 =	71,498
Petroleum Mass Recovered During CAP IMP SP2 =	10,200
Days of Operation During CAP IMP SP2 =	35.48

SOLUTION:

Using the site-specific information collected during the first two months of long-term DPE Implementation, a daily recovery rate of total petroleum has been calculated. TVPH in vapor phase and TPH-GRO in dissolved phase are the basis for this estimate. It should be noted that the given information consists of estimates and approximations.

Determine Daily Recovery Mass:

Daily Recovery Mass = Pet. Mass Recovery During DPE Operation / Days of DPE Operation

= 10,200 lbs / 35.48 days

= 287.49 lbs/day

≈ 288 lbs/day

Convert Daily Recovery Mass to Daily Recovery Rate:

Daily Recovery Rate = Daily Recovery Mass / Pet. Mass Prior to DPE Operation

= 288 lbs/day / 81,698 lbs

= 0.0035/day

= 0.35% /day

CALCULATION SHEET

DPE Recovery Rate and Period

Several factors affect the recovery potential and rate of DPE when applied to subsurface petroleum contaminants. However, recovery trends are expected to reduce the petroleum mass in such a way that the operation may be modeled as exponential decay.

Exponential decay is expressed as $Y = ne^{kt}$ or $k = \frac{\ln\left(\frac{y}{n}\right)}{t}$ or $t = \frac{\ln\left(\frac{y}{n}\right)}{k}$

Where: Y=Final Mass
n=Initial Mass
e =2.71828 (Euler's Number)
k =Decay Constant
t =Time Period

In order to determine the length of time needed to reduce the current petroleum mass to fractions of itself, one must first determine the Decay Constant, k. By applying the observed recovery after 35.48 days of application, k can be calculated:

$$k = \frac{\ln\left(\frac{y}{n}\right)}{t} \quad \Bigg| \quad k = \frac{\ln\left(\frac{71{,}498}{81{,}698}\right)}{35.48} \quad \Bigg| \quad k = -0.00375874$$

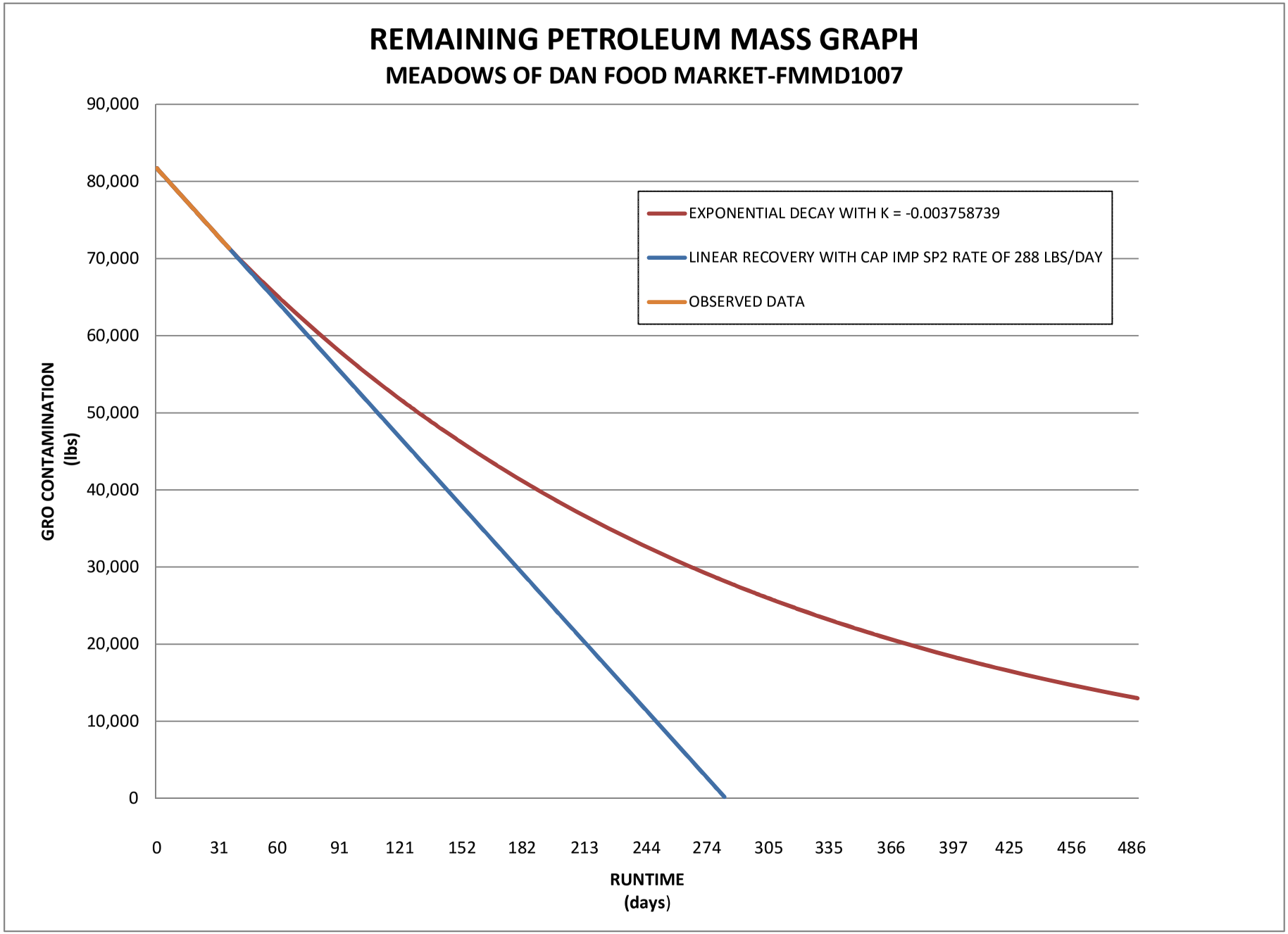
Now that k is known, we can solve for t, time period (in days) to reduce the remaining mass to ½ and ¼ of itself. This is an asymptotic recovery model so removing all of the initial mass is assumed to not be possible.

½ of initial mass:

$$t = \frac{\ln\left(\frac{y}{n}\right)}{k} \quad \Bigg| \quad t = \frac{\ln(35{,}749/71{,}498)}{-0.00375874} \quad \Bigg| \quad t \approx 184\ days$$

¼ of initial mass:

$$t = \frac{\ln\left(\frac{y}{n}\right)}{k} \quad \Bigg| \quad t = \frac{\ln(17{,}875/71{,}498)}{-0.00375874} \quad \Bigg| \quad t \approx 369\ days$$


REMAINING PETROLEUM MASS GRAPH
MEADOWS OF DAN FOOD MARKET-FMMD1007
GRO CONTAMINATION (lbs)
90,000
80,000
70,000
60,000
50,000
40,000
30,000
20,000
10,000
0
0
31
60
91
121
152
182
213
244
274
305
335
366
397
425
456
486
RUNTIME (days)
EXPONENTIAL DECAY WITH K = -0.003758739
LINEAR RECOVERY WITH CAP IMP SP2 RATE OF 288 LBS/DAY
OBSERVED DATA

APPENDIX G

Associated Documents

Electrical Service Permit – Patrick County Building Inspections
Virginia Department of Transportation Land Use Permit
Site Access Agreements

Building Permit
Patrick County, Virginia
(276)694-4143
Call for inspections: 8 a.m. - 10 a.m.

Applicant: T & M SOUTHWEST LLC
PO BOX 709
RINER, VA 24149

Permit No: 19241
Permit Date: 09/03/2015

Map #: 4415-()--65-A
Permit To: TEMPORARY ELECTRIC POLE
Location: 58W, L 58 W BUSINESS TO MEADOWS OF DAN MARKET ON THE RIGHT

Contractor:
Group: U
Estimated Cost: $1,000.00
Mechanic Lien: NONE DESIGNATED

Building	0.00
Mobile Home	0.00
Electrical	55.00
Mechanical	0.00
Plumbing	0.00
Signs	0.00
Other	0.00
PreInspect	0.00
Base Fee	55.00
Levy	1.10
E911	0.00
Total	56.10

This permit conveys no right to occupy any street, alley or sidewalk or any part thereof, either temporarily or permanently. Encroachments on public property, not specifically permitted under the building code, must be approved by the jurisdiction. Street or alley grades as well as depth and location or public sewers may be obtained from the department of public works. The issuance of this permit does not release the applicant from the conditions of any applicable subdivision restrictions.

Approved plans must be retained on job and this card kept posted until final inspection has been made. Where a certificate of occupancy is required, such building shall not be occupied until final inspection has been made.

POST THIS CARD SO IT IS VISIBLE FROM STREET

Building Inspection Approvals | Plumbing Inspection Approvals | Electrical Inspection Approvals

Work shall not proceed until the inspector has approved the various stages of construction.

Permit will become null and void if construction work is not started within six months of date the permit is issued as noted above.

Call for inspections: 8 a.m. - 10 a.m.

Commonwealth Of Virginia

Department Of Transportation

Land Use Permit

Permit No 212-26903

Status APPROVED

This permit only grants permission to use whatever rights the Commonwealth Transportation Board and the Department of Transportation have in the right of way and no more, and it is the obligation of the permittee to secure any other releases or permission that may be needed in order to perform the work.

Effective Date Dec 30, 2015 **Expiration Date** Dec 29, 2016 **Reinstatement Date**

Permitee Information	Your Job# FMMD1007	Surety & Account Receivable Information
Address T & M Southwest, LLC T & M Southwest, LLC P.O. Box 709 Riner VA 24149	**Agent** Greene Environmental Services, LLC Greene Environmental Services, LLC 200 Buckwheat Lane Rocky Mount VA 24151	**Name** Auto Owners Insurance Company **Surety account** 66214027 **Surety type** Bond **Amount** 5,000.00 **Obligation Amount** 5,000.00 **Surety Holder** AGENT
Contact Mike Turman **Phone#** 540-381-5177 **Fax#** **24 Hr#**	**Contact** Trevor Greene **Phone#** 540-483-3311 **Fax#** 540-483-3381 **24 Hr#** 540-493-8738	

AUTHORIZATION: In compliance with your application, permission is hereby given insofar as the Commonwealth Transportation Board has the right, power, and authority under sections 33.2 - 210;33.2 - 240;33.2 - 241 of the Code of Virginia as amended, to grant by Special Agreement and/or by Land Use Permit for you to perform the work and or activity(s) described below:

Location

County/City/Town	Patrick County	Highway Route(s)	614 - Baptist Church Lane
From Route Number	58	From Route Name	Meadows of Dan Business
To Route Number	614	To Route Name	Dead End

Work Description

Install 2" HDPE drainage line to move treated ground water to drainage ditch.

Fee Description	Fee
Permit fee & additive	$150.00

Applicant has complied with Section Code 56-265.15 affidavit is attached.

TERMS: Applicable as stated with in the Land Use Permit Regulations (current edition) and/or as per approved plan(s) and/or regulatory instructions and/or agreements attached hereto. **THIS PERMIT IS NOT VALID WITHOUT THE FOLLOWING ATTACHMENTS:**

Traffic Control in Work Areas,Special Provisions - General,Approved Site Plans

COMMONWEALTH TRANSPORTATION BOARD

By: *Dec 30, 2015*

Dan Huff, PE

C Call before you dig
A Allow the required time for marking
R Respect and protect the marks/flags
E Excavate carefully

Call Miss Utility
811

Final Inspection Requirements: Upon completion of the work described under this permit, the permittee shall contact the following office in writing to request inspection.

Martinsville Residency
309 Weeping Willow Lane
Bassett VA 24055

GREENE
ENVIRONMENTAL SERVICES LLC.
200 Buckwheat Lane, Rocky Mount, Virginia 24151
Office: 540-483-3311 or 800-215-2596 Fax: 540-483-3381
www.greene-environmental.com

Kaye-Reed, LLC
Attention: Ms. Sandra Buckery
1280 Hill Valley Walk
Wilmington, North Carolina 28412

January 8, 2016

RE: Site Access Agreement – 2685 Jeb Stuart Highway, Meadows of Dan, VA 24120

In order to reduce the potential risk to human health and the environment associated with the confirmed petroleum release at the Meadows of Dan Food Market facility addressed as 2609 Jeb Stuart Highway, Meadows of Dan, Virginia 24120, the Virginia Department of Environmental Quality (VA DEQ) has approved the performance of corrective action plan implementation activities. On behalf of the facility owner, T&M, M of D, LLC, Greene Environmental Services, LLC (Greene) seeks your cooperation in order to perform the following remediation activities on your property addressed as 2685 Jeb Stuart Highway, Meadows of Dan, Virginia 24120:

1. Install a 2-inch high-density polyethylene (HDPE) pipe within the Virginia Department of Transportation (VDOT) right-of-way located along the north side of the 2685 Jeb Stuart Highway property. The piping will be utilized as a discharge line for the remediation system to be installed at the Meadows of Dan Food Market facility.
2. Subsequent to completing installation activities disturbed areas will be resurfaced to previous conditions.
3. Conduct routine monitoring following piping installation.

Greene Environmental Services, LLC, under the direct supervision of T&M, M of D, LLC, and in conformity with the laws and regulations administered by the VA DEQ, will be the onsite environmental contractor conducting the activities listed above. These activities will be performed in a timely and professional manner. T&M, M of D, LLC and its contractor will maintain all appropriate onsite safety measures, and will assume full responsibility for the proper disposal of all materials generated during the activity. Site restoration will be conducted upon completion of the site activities listed above. During the project, Greene will periodically inform you of the project status and progress toward specified goals.

Please sign and date the statement below giving Greene Environmental Services, LLC permission to access your property for the purposes of performing the services/activities listed above. Please return this signed

access agreement to Greene Environmental Services, LLC via facsimile (540-483-3381) or email (aflora@greene-environmental.com).

Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-798-4206 (mobile) if you have any questions or if additional information is required.

Sincerely,

Marshall Adam Flora (Adam)
Project Manager

By my signature below, I represent that as an authorized representative of the owner of 2685 Jeb Stuart Highway, Meadows of Dan, Virginia, I give T&M, M of D, LLC and its environmental contractor, Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.

Signature

2-3-16
Date

SANDRA H. BUCKERY for KAYE REAL, LLC
Printed Name & Title

OWNER 2685 JEB STUART HWY, MEADOWS OF DAN, VA 24120

GREENE
ENVIRONMENTAL SERVICES LLC.
200 Buckwheat Lane, Rocky Mount, Virginia 24151
Office: 540-483-3311 or 800-215-2596 Fax: 540-483-3381
www.greene-environmental.com

Mr. Ledford Stanley
2727 Jeb Stuart Highway
Meadows of Dan, Virginia 24120

January 8, 2016

RE: Site Access Agreement – 2727 Jeb Stuart Highway, Meadows of Dan, VA 24120

In order to reduce the potential risk to human health and the environment associated with the confirmed petroleum release at the Meadows of Dan Food Market facility addressed as 2609 Jeb Stuart Highway, Meadows of Dan, Virginia 24120, the Virginia Department of Environmental Quality (VA DEQ) has approved the performance of corrective action plan implementation activities. On behalf of the facility owner, T&M, M of D, LLC, Greene Environmental Services, LLC (Greene) seeks your cooperation in order to perform the following remediation activities on your property addressed as 2727 Jeb Stuart Highway, Meadows of Dan, Virginia 24120:

1. Install a 2-inch high-density polyethylene (HDPE) pipe within the Virginia Department of Transportation (VDOT) right-of-way located along the north side of the 2727 Jeb Stuart Highway property. The piping will be utilized as a discharge line for the remediation system to be installed at the Meadows of Dan Food Market facility.
2. Subsequent to completing installation activities disturbed areas will be resurfaced to previous conditions.
3. Conduct routine monitoring following piping installation.

Greene Environmental Services, LLC, under the direct supervision of T&M, M of D, LLC, and in conformity with the laws and regulations administered by the VA DEQ, will be the onsite environmental contractor conducting the activities listed above. These activities will be performed in a timely and professional manner. T&M, M of D, LLC and its contractor will maintain all appropriate onsite safety measures, and will assume full responsibility for the proper disposal of all materials generated during the activity. Site restoration will be conducted upon completion of the site activities listed above. During the project, Greene will periodically inform you of the project status and progress toward specified goals.

Please sign and date the statement below giving Greene Environmental Services, LLC permission to access your property for the purposes of performing the services/activities listed above. Please return this signed access agreement to Greene Environmental Services, LLC via facsimile (540-483-3381) or email (aflora@greene-environmental.com).

Thank you for your time and help in this matter. Please feel free to contact me at 540-483-3311 (office) or 540-798-4206 (mobile) if you have any questions or if additional information is required.

Sincerely,

Marshall Adam Flora (Adam)
Project Manager

By my signature below, I represent that as an authorized representative/owner of 2727 Jeb Stuart Highway, Meadows of Dan, Virginia, I give T&M, M of D, LLC and its environmental contractor, Greene Environmental Services, LLC, and its agents, permission to access the property for the purposes of completing these activities.

Jedford Stanley
Signature

2-10-16
Date

Ledford Stanley owner
Printed Name & Title