August 21, 2018

Mr. David Hayes
Georgia Department of Natural Resources
Hazardous Sites Voluntary Remediation Program
2 Martin Luther King Jr. Drive SE
Suite 1410, East Tower
Atlanta, Georgia 30334

RE: **Voluntary Remediation Program Application and Remediation Plan**
Former Lucky Cleaners
Hazardous Site Inventory #10845
2801 Washington Road
Augusta, Richmond County, GA 30909
Contour Project Number: E18KRO:07

Dear Mr. Hayes,

Contour Engineering, LLC (Contour), on behalf of The Kroger Co. (Kroger), is pleased to submit the enclosed Voluntary Remediation Program Application and the Voluntary Investigation and Remediation Plan (VIRP) for the above-referenced site. The Voluntary Remediation Program Application fee is included with this submittal.

If you have any questions regarding this plan or if we may be of further service, please call our office at (770) 794-0266.

Sincerely,

CONTOUR ENGINEERING, LLC

Kevin McGowan
Vice President-Environmental Services Manager

Greg Rowell, P.G.
Senior Project Manager

c: Mr. Scott Siebert / The Kroger Co.

Enclosures: Voluntary Remediation Program Application
Voluntary Investigation and Remediation Plan

VOLUNTARY INVESTIGATION AND REMEDIATION PLAN

Former Lucky Cleaners
Hazardous Site Inventory #10845
2801 Washington Road
Augusta, Richmond County, GA 30909
Contour Project Number: E18KRO:07

Prepared For:

The Kroger Co.
2175 Parklake Drive NE
Atlanta, Georgia 30345

Submitted To:

Georgia Department of Natural Resources
Hazardous Sites Voluntary Remediation Program
Suite 1410, East Tower
2 Martin Luther King Jr. Drive SE
Atlanta, Georgia 30334

Prepared By:

Contour Engineering, LLC
1955 Vaughn Road
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Kennesaw Georgia 30144

AUGUST 21, 2018

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Acronyms and Abbreviations

AES	Analytical Environmental Services, Inc.
bgs	below ground surface
BRL	below reporting limits
CAP	corrective action plan
CSM	Conceptual Site Model
DCE	dichloroethene
DO	dissolved oxygen
DNR	Department of Natural Resources
DPT	Direct Push Technology
EPA	U.S. Environmental Protection Agency
ESA	environmental site assessment
FID	flame ionization-detector
ft/day	feet per day
ft/ft	feet per foot
ft/year	feet per year
GA EPD	Georgia Environmental Protection Division
HDPE	high density polyethylene
HQ	Hazard Quotient
HSI	Hazardous Sites Inventory
HSRA	Hazardous Site Response Act
HSRP	Hazardous Site Response Program
HWMA	Hazardous Waste Management Act
ID	internal diameter
ISCO	in-situ chemical oxidation
IWQS	In-stream Water Quality Standard
$KMnO_4$	potassium permanganate
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
MCL	Maximum Contaminant Level
MNA	monitored natural attenuation
NC	notification concentration
NOV	notice of violation

O.C.G.A.	Official Code of Georgia Annotated
ORP	oxidation/reduction potential
PCE	tetrachloroethene
PID	photoionization detector
POD	Point of Demonstration
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
RRS	risk reduction standard
TCE	trichloroethene
TOC	total organic carbon
UEC	Uniform Environmental Covenant
VOC	volatile organic compound
VIRP	Voluntary Investigation and Remediation Plan
VISL	Vapor Intrusion Screening Level
VRP	Voluntary Remediation Program

SECTION 1.0

Introduction

Contour Engineering, LLC (Contour), on behalf of The Kroger Co. (Kroger), is pleased to present this Voluntary Investigation and Remediation Plan (VIRP) and the included Voluntary Remediation Program (VRP) Application and Checklist for the former Lucky Cleaners located in Augusta, Richmond County, Georgia. It is the intent of Kroger to enroll the former Lucky Cleaners facility in the Georgia Environmental Protection Division's (GA EPD) VRP. The facility is currently listed as Site No. 10845 on the Georgia Hazardous Site Inventory (HSI) and is currently undergoing corrective action under the Georgia Hazardous Site Response Act (HSRA). The VRP Application and Checklist are included in Appendix A.

1.1 Site Location and Description

The former Lucky Cleaners facility is located at 2801 Washington Road, Augusta, Richmond County, Georgia, which is near the northwest corner of the intersection of Washington Road and Alexander Drive. The subject property is described as a 20.05-acre parcel of land (tax parcel #013-0-013-00-0) currently owned by Kroger and is referred to hereinafter as "Site". The Site is currently developed with several retail tenants and an anchor store occupied by Kroger, which were constructed on the Site in 2008 and collectively known as the Washington Walk Shopping Center. Figure 1 presents the Site Location Map.

The Site was previously improved as a shopping center with a 22-year old, 64,300 square feet one story block structure with several individual tenant spaces from 1986 to 2007. The former shopping center consisted of seven retail tenant spaces and an anchor store occupied by Kroger. The retail tenant spaces were demolished in August 2007 and the old Kroger store was demolished shortly thereafter. The former Lucky Cleaners was a tenant at the former shopping center. In 2008, the new Kroger store was constructed over the footprint of the former Lucky Cleaners tenant space. Figure 2 presents the Site Map and location of the former Lucky Cleaners tenant space building footprint.

The former Lucky Cleaners facility occupied approximately 1,000 square feet of tenant space of the former shopping center. Dry cleaning operations reportedly began in 1986 by an unknown dry cleaner business when the tenant space was first occupied. In 1992, the former Lucky Cleaners reportedly began dry cleaning operations until 2006. According to the *Groundwater Corrective Action Plan* dated December 2008 that was prepared by Enercon Services, Inc. (ENERCON), a single dry cleaning machine was operated onsite. Tetrachloroethylene (PCE) was reportedly stored in 5-gallon containers inside the storage building at the rear of the facility and spent solvent and filters were reportedly stored in 5-gallon containers near the service entrance at the northwest corner of the space.

1.2 Qualifying Property and Participant Eligibility

Contour, on behalf of Kroger, is submitting this VIRP under the Georgia Voluntary Remediation Act (the Act) for the former Lucky Cleaners facility (HSI No. 10845). According to Official Code of Georgia Annotated (O.C.G.A.) 12-8-105, in order to be considered a qualifying property, the Property must be listed on the HSI or meet the criteria of the Georgia Brownfields Act (O.C.G.A. 12-8-205), or have a release of regulated substances to the environment. Under O.C.G.A. 12-8-105 the property shall also not:

1. Be listed on the federal National Priorities List;
2. Be currently undergoing response activities required by an Order of the Regional Administration of the United States Environmental Protection Agency (EPA);
3. Be a facility required to have a permit under the Georgia Hazardous Waste Management Act (HWMA);

4. Violate the terms and conditions under which the GA EPD operates and administers remedial programs by delegation or similar authorization from the EPA; and
5. Have any unsatisfied or unsettled lien filed under subsection (e) of the HWMA or subsection (b) of the Georgia Underground Storage Tank Management Act.

The Site is listed as HSI No. 10845. None of the other criteria listed in items 1 - 5 apply. Therefore, the Site is a qualifying property under the Act. A copy of the Legal Description containing the Warranty Deed and Tax Plat for the Qualifying Property is included in Appendix B.

In order for the Participant to meet the qualifications of the VRP according to O.C.G.A. 12-8-106, the following additional criteria must be met:

1. The Applicant must be the owner of the VRP property or have express permission to enter another's property to perform corrective action including, to the extent applicable, implementing controls for the Site pursuant to written lease, license, order or indenture;
2. Not be in violation of any order, judgement, statute, rule or regulation subject to the enforcement authority of the Director; and
3. Meet other such criteria as may be established by the Department of Natural Resources (DNR) Board pursuant to O.C.G.A. 12-8-103.

As the Participant meets all the criteria stated above, the Participant is qualified for admission into the VRP.

The contact for the Applicant is as follows:

The Kroger Co.
Mr. Scott Siebert
2175 Parklake Drive NE
Atlanta, Georgia 30345
(770) 496-7489

SECTION 2.0

Summary of Previous Investigations and Corrective Actions

The following sections present a summary of the previous investigations and corrective actions performed at the Site.

2.1 Phase II ESA

In June 2006, Epic Consulting, Inc. (Epic) performed a Phase II Environmental Site Assessment (ESA) at the Site. Soil and groundwater samples were collected from two soil borings advanced into shallow groundwater and were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. The two borings were located near the northeast and northwest (outside) corners of the former tenant space. Analytical results for the two soil samples collected were below laboratory reporting limits (BRL); however, the analytical results for the groundwater samples collected from the two borings indicated PCE at concentrations of 5.2 micrograms per liter (µg/L) and 5.5 µg/L. Trichloroethene (TCE) was detected at concentrations of 12 µg/L and 13 µg/L and cis-1,2-dichloroethene (DCE) was also detected at concentrations ranging from 180 µg/L to 200 µg/L. Based on the presence of PCE, TCE, cis-1,2-DCE in groundwater, the release was reported to the GA EPD. Due to the release of chlorinated solvents from the former drycleaners and the Site location hydraulically downgradient of a private drinking water supply well located approximately 1,600 feet south, the Site was listed in on the Georgia HSI on October 13, 2006.

2.2 Corrective Action Plan (CAP) Assessments

2.2.1 Soil and Groundwater Assessment: December 2006 through January 2007

Between December 2006 and January 2007, Epic conducted additional assessment activities at the Site in an attempt to determine the source and extent of solvent impact at the Site. A total of 14 soil borings were advanced to groundwater using Direct Push Technology (DPT) at the locations illustrated on Figure 3. Borings B-1 through B-7 were completed on December 8 and 9, 2006, while borings B-8 through B-14 were completed on January 8, 2007. Four of the soil borings (B-1, B-3, B-4 and B-5) were advanced inside the former Lucky Cleaners tenant space in areas where the presence of dry cleaning equipment or solvent use was previously known or readily apparent. One boring, B-2, was advanced in the storage shed at the rear of the building where the boiler was located and where virgin solvents are known to have been stored. The remaining nine borings were advanced in the driveway area at the rear of the building in order to assess the nature and extent of the VOC plume associated with the dry cleaning solvent release.

The soil borings were extended to a depth of 28 feet below ground surface (bgs) that was several feet below the observed groundwater table. Soils were generally classified as sandy silts and silty sands, which are typical Fall Line and Coastal Plain materials. They were observed to be predominantly fine-grained, low plasticity, residual soils. It appeared that fill materials were imported to the Site during initial construction in 1986, as evidenced by a layer of organics encountered during soil boring completion. The elevation of the layer of organics was observed to increase with depth from the front of the property to the rear, and was generally located between 14 to 25 feet bgs.

Each soil sample was placed in a laboratory-prepared container, labeled, preserved and shipped under standard chain-of-custody procedures to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for analysis of VOCs by EPA Method 8260B.

Data collected in December 2006 and January 2007 indicated that the highest concentration of PCE in soil was present from 12 to 16 feet bgs. The PCE level increased with depth, from 0.0043 milligrams per kilogram (mg/kg) at four to eight feet bgs in B-7 to 2.8 mg/kg at 12 to 16 feet bgs in B-6. The PCE appeared to be undergoing natural biodegradation due to the presence of TCE and DCE at all three samples collected from boring B-6. Figure 4

presents the soil quality map from the Epic soil borings and Table 1 presents a summary of the soil boring analytical data.

Following soil sample collection, temporary monitoring wells were installed in each boring to facilitate well development and groundwater sample collection. The temporary wells were constructed so the well screens straddled the water table at the time of construction. The temporary monitoring wells were constructed with variable lengths of 1-inch internal-diameter (ID) Schedule 40 polyvinyl chloride (PVC) riser and 1-inch-ID PVC 0.010-inch machine-slotted well screen. Temporary wells installed in borings B-1 through B-7 were completed with 20 feet of well screen and riser to the surface and the temporary wells installed in borings B-8 through B-14 were completed with 15 feet of well screen and riser to the surface.

After temporary well installation, the wells were developed via hand-bailing with dedicated PVC bailers to remove fine-grained material and improve the hydraulic connection with the formation. Static groundwater measurements collected from each well after groundwater recharged into the monitoring wells following development and generally ranged between 20 and 25 feet bgs. Groundwater elevations were calculated and generally indicated that groundwater flow was in a predominantly west direction from the source area with flow components to the southwest and northwest.

A groundwater sample was collected from each well following purging using a dedicated polyethylene bailer. Each groundwater sample was placed in a laboratory-prepared container and shipped under standard chain-of-custody procedures to AES in Atlanta, Georgia for analysis of VOCs by EPA Method 8260B.

Groundwater results of the samples collected in January 2007 showed PCE to be present above laboratory reporting limits in groundwater collected from soil borings B-6, B-7, B-12 and B-13 at levels ranging from 30 µg/L in B-12 to 2,300 µg/L in B-6. TCE was found to be present above laboratory reporting limits in groundwater collected from soil borings B-6 at a concentration of 720 µg/L and in B-13 at a concentration of 100 µg/L. cis-1,2-DCE was found to be present above laboratory reporting limits in groundwater collected from soil borings B-6, B-13 and B-14 at levels ranging from 59 µg/L in B-14 to 250 µg/L in B-6.

Epic proposed to excavate the soil impacts from the vicinity of a sanitary sewer manhole prior to the redevelopment of the shopping center, as the proposed new Kroger store would be constructed over the contaminant source area. Therefore in a letter dated February 6, 2007, Epic submitted a Proposed Soil Excavation Plan to the GA EPD that outlined a plan for excavating impacted soils. The GA EPD issued their conditional approval for the soil removal activities in a letter dated March 9, 2007. Epic prepared a CAP dated March 29, 2007 that outlined Risk Reduction Standards (RRS) for remediating the impacted areas. In a letter dated July 17, 2007, the GA EPD noted several deficiencies with the CAP.

2.2.2 Corrective Action and Soil Delineation: August 2007

Soil Excavation

Between August 13 and August 22, 2007, Epic conducted soil excavation activities at the Site. Figure 5 presents the area where soils were excavated, which consists of an area of approximately 693 square feet around boring location B-6. The excavation extended to a depth of approximately 16 feet bgs resulting in approximately 411 cubic yards of excavated soil. Confirmatory soil samples were collected from the bottom and sidewalls of the excavation to document soils exceeding the non-residential Type 3 RRS were removed. Samples were collected approximately every 25 feet along the sidewalls of the excavation, with one sample collected just north of the sanitary sewer manhole. Additionally, samples were collected from these locations over several excavation lifts in order to characterize, segregate and dispose of the impacted soils. Soils were stockpiled at the surface by excavation lift pending receipt of confirmatory laboratory analytical data. While stockpiled, soils were placed on and fully covered by high-density polyethylene (HDPE) sheeting to ensure that impacted soils did not impact surface soils or erode due to wind or water. Upon completion of the excavation, soil samples were collected from the floor and walls of the excavation using a hand auger for laboratory analysis.

Soil samples were screened throughout the excavation for the presence of total VOCs with a calibrated flame ionization detector (FID). Each soil sample collected was placed in a laboratory-prepared container and shipped under standard chain-of-custody procedures to AES in Atlanta, Georgia for analysis of VOCs by EPA Method 8260B. The excavated soils were treated as hazardous wastes and transported to a hazardous waste landfill as indicated by analytical results. According to the manifests, a total of 471.4 tons of impacted soils were removed from the Site and disposed of as hazardous waste. Following excavation, the excavated area was backfilled and compacted to an appropriate density for ongoing construction activities.

The data collected during the excavation indicated that the most impacted unsaturated soils have been removed from the Site subsurface. Figure 5 presents the analytical data for the soil samples collected during the excavation activities. Analytical data collected from the corners of the excavation verify soils exceeding the non-residential Type 3 RRS have been removed from the source area. Table 2 summarizes the soil excavation sample analytical data.

The analytical data collected prior to and during the excavation activities indicated that only PCE was present in sufficient quantities to exceed the non-residential Type 3 RRS. The concentrations of PCE in soil observed from 16 and 16.5 feet bgs was likely attributable to the soils being saturated due to their proximity to the groundwater table. While only soils at the total excavation depth were found to exceed the non-residential Type 3 RRS, Epic found that due to the soils being saturated by impacted groundwater, further excavation would likely not have yielded meaningful reductions in PCE concentrations in the soil.

Soil Delineation

On August 14, 2007, Epic advanced five soil borings (B-15 through B-19) using DPT methodology following telephonic discussions with Ms. Carrie Williams of the Hazardous Site Response Program (HSRP). Ms. Williams directed Epic to collect soil samples at the depth of the invert elevation of the sanitary sewer line along its length and at its lowest elevation at the manhole located to the north in an effort to assess whether the soil impacts were due to leaching from the sewer line along its length and at the northern manhole. Additionally, soils collected from the southwestern corner of the excavation pit were adjacent to the sewer line and served to delineate soils along the sewer line to the west of the source area. The locations of the five soil borings, B-15 through B-19, are presented on Figure 3. The borings were placed in linear increments of approximately 20 feet along the along the sewer line to the north of the soil excavation pit.

Soil borings B-15 through B-18 were advanced to a depth of 12 feet bgs, the approximate invert elevation of the sanitary sewer line, and soil samples were screened for the presence of total VOCs with a calibrated FID. Soil boring B-19 was intended to be advanced to 35 feet bgs, which is the total depth of the sewer trunk line, but was terminated at 32 feet bgs due to refusal. The soil samples were placed in a laboratory-prepared containers and shipped under standard chain-of-custody procedures to AES in Atlanta, Georgia for analysis of VOCs by EPA Method 8260B.

Soil sample data collected in August 2007 along the sanitary sewer line indicated that PCE at a depth of 10 feet, which is the approximate sewer invert elevation, decreases to below laboratory reporting limits between 25 and 50 feet north of the of the sewer manhole directly behind the former dry cleaners. The soil samples collected along the sewer line to the north at a depth of 8 to 12 feet bgs including a sample collected at a depth of 28 to 32 feet bgs adjacent to the northern manhole were below reporting limits for all constituents. Soil impacts to the north along the sewer line pathway were delineated. Figure 4 presents the soil quality map from the Epic soil borings and Table 1 presents a summary of the soil boring analytical data.

Soils collected from the southwestern corner of the excavation, approximately 13 feet from the sewer manhole, were adjacent to the sewer line at varying depths. Analytical results indicated that minor concentrations of PCE were detected at depths of 6 and 10 feet bgs with PCE concentrations slightly increasing at a depth of 16 feet bgs, which was likely due to groundwater saturation of the soils. PCE was not detected at any other depth interval analyzed and TCE and cis-1,2-DCE were not detected in any of the samples.

Based on the results of the collected data, it appeared that the source of PCE was the result of surface dumping, spillage or leakage from storage containers and infiltration through to the soils via cracks in the overlying concrete around the sanitary sewer manhole. The highest soil concentrations of PCE, TCE and cis-1,2-DCE were found near the sanitary sewer manhole were also detected upgradient of the sewer manhole in the southeastern corner of the excavation area. The sewer line may have served as a preferential pathway for the spilled product, but ultimate leaching from the sewer line does not appear to have occurred. The soil investigation performed in support of CAP development was successful in delineating both vertical and horizontal soil impacts. Additionally, the source area has been removed in order to prevent further leaching to the groundwater.

Epic prepared a revised CAP dated December 13, 2007 that discussed the soil excavation completed onsite and also addressed the deficiencies in the initial CAP that were previously cited by the GA EPD in July 2007.

2.2.3 Groundwater Assessment: September 2008

ENERCON purchased Epic and took over remedial actions at the Site in August 2008. In September 2008, following construction of the present day structure, ENERCON installed three, 45 degree angle, directional monitoring wells (MW-1, MW-2, and MW-3) at the Site. The location for monitoring well MW-1 was placed using GPS data collected from the previous location of boring B-6, located near the former manhole and in the area of greatest PCE impact. Monitoring wells MW-2 and MW-3 were then located at a spacing of 15 to 20 feet on center to the north-northwest of monitoring well MW-1 in order to assess current groundwater conditions beneath the edge of the former excavation area (MW-2) and further north along the path of the former sanitary sewer line (MW-3). The locations of the monitoring well borings are presented on Figure 3.

Because the borings were completed at a 45 degree angle, sampling of the subsurface via split spoon or other method was not feasible. Therefore, soil samples were collected from auger cuttings from near the bottom of each auger flight as representative of the interval. Soil samples were screened for the presence of total VOCs with a calibrated FID. Soil borings were extended to a depth of 35 vertical feet bgs, for a total horizontal drilled length of 50 feet.

Soil samples were collected from the interval from each boring exhibiting the highest FID reading for laboratory analysis. Each soil sample was placed in a laboratory-prepared container and shipped under standard chain-of-custody procedures AES in Atlanta, Georgia for analysis of VOCs by EPA Method 8260B. Soil samples collected from borings MW-1 and MW-3 did not exhibit any VOC constituents above laboratory reporting limits. PCE was present at 0.041 mg/kg in the soil sample collected from boring MW-2, which was collected at a depth of 10.5 to 14 feet bgs. The PCE detected in MW-2 soils did not exceed the non-residential Type 3 RRS. Figure 6 presents the soil quality map from the monitoring well borings and Table 1 presents a summary of the monitoring well boring analytical data.

Following soil sample collection, monitoring wells were installed in each boring to facilitate well development and groundwater sample collection. The monitoring wells were constructed so the well screens straddled the water table at the time of construction. The monitoring wells were constructed with 20 feet of 2-inch ID Schedule 40 PVC riser and 30 feet of 2-inch-ID PVC 0.010-inch machine-slotted well screen.

After well installation, the wells were developed via hand-bailing with dedicated PVC bailers to remove fine-grained material and improve the hydraulic connection with the formation. Static groundwater measurements collected from each well after groundwater recharged into the monitoring wells following development and generally ranged between 15 and 18 feet bgs.

Groundwater samples were collected from each monitoring well (MW-1 through MW-3) following purging using a dedicated polyethylene bailer. Each groundwater sample was placed in a laboratory-prepared container and shipped under standard chain-of-custody procedures to AES in Atlanta, Georgia for analysis of VOCs by EPA Method 8260B.

The groundwater samples were analyzed for VOCs and showed dry cleaning constituents to be present. PCE was found to be present above laboratory reporting limits in groundwater collected from monitoring wells MW-1 and

MW-2 at concentrations of 14 µg/L and 11 µg/L, respectively. TCE and cis-1,2-DCE were not detected in the samples collected during September 2008. Table 3 presents a summary of the groundwater analytical data.

ENERCON prepared a Groundwater CAP dated December 16, 2008 that summarized the results of the directional monitoring well installation and the results of a vapor intrusion model. In the Groundwater CAP, ENERCON recommended monitored natural attenuation (MNA) as the corrective action technology for the Site. In a letter dated June 5, 2009, the GA EPD noted several deficiencies with the Groundwater CAP. ENERCON addressed the comments in a Comment Response Letter dated March 29, 2010. A Notice of Violation (NOV) letter was issued for the Site on January 26, 2011 for failure to submit an Updated Groundwater CAP. On January 26, 2011, ENERCON submitted a letter to the GA EPD requesting review and approval of the Groundwater CAP Comment Response Letter that was submitted by ENERCON in March 2010. Additionally, ENERCON also submitted a revised milestone schedule for the Site. In a letter dated May 19, 2011, the GA EPD responded to the March 2010 letter and approved the Revised Milestone Schedule.

2.2.4 Groundwater Assessment: August 2011

In August 2011, ENERCON installed six monitoring wells (MW-4 through MW-9) to delineate the groundwater impacts at the Site. During installation, soil samples were collected in 5 foot depth intervals and field screened with a photoionization detector (PID) and soil samples were collected from the well borings ranging in depth from 5 to 15 ft bgs and submitted to the laboratory for analysis of VOCs by EPA Method 8260B. No VOCs were detected in the soil samples above the laboratory reporting limits with the exception of acetone from the soil sample collected from MW-8 at 0.22 mg/kg. The locations of the monitoring well borings are presented on Figure 3 and Figure 6 presents the soil quality map from the monitoring well borings. Table 1 presents a summary of the monitoring well boring analytical data.

Following soil sample collection, monitoring wells were installed in each boring to facilitate well development and groundwater sample collection. The monitoring wells were constructed so the well screens straddled the water table at the time of construction. The monitoring wells were constructed with 10 feet of 2-inch ID Schedule 40 PVC riser and 20 feet of 2-inch-ID PVC 0.010-inch machine-slotted well screen. After well installation, the wells were developed using either a submersible pump and new polyethylene tubing or a dedicated polyethylene bailer to remove fine-grained material and improve the hydraulic connection with the formation.

On September 12, 2011, ENERCON conducted a comprehensive groundwater sampling event. Low-flow purging and sampling techniques were used to collect the groundwater samples with a peristaltic pump and tubing. Additionally, a flow-through cell was used to establish the stabilization time for several parameters (pH, oxidation reduction potential [ORP], temperature, dissolved oxygen [DO], specific conductance, and turbidity). Measurements were taken every 3 to 5 minutes and sampling was initiated upon parameter stabilization. Each groundwater sample was placed in a laboratory-prepared container and shipped under standard chain-of-custody procedures to AES in Atlanta, Georgia for analysis of VOCs by EPA Method 8260B.

The VOC results of the groundwater samples indicated:

- PCE was detected in wells MW-1, MW-2, and MW-5 at concentrations ranging from 45 µg/L to 1,900 µg/L;
- TCE was detected in wells MW-1, MW-2, and MW-3 at concentrations ranging from 5.9 µg/L to 500 µg/L;
- Cis-1,2-DCE was detected in wells MW-1 and MW-2 at 27 µg/L and 25 µg/L, respectively;
- Trans-1,2-DCE was detected in wells MW-1 and MW-2 at 8.8 µg/L and 15 µg/L, respectively;
- Monitoring wells MW-4, MW-6, MW-7, and MW-8 were below laboratory reporting limits for all VOC constituents;
- MW-9 was dry and therefore not sampled.

Table 3 presents a summary of the groundwater analytical data.

In December 2011, ENERCON submitted an Updated Groundwater CAP recommending the installation of additional delineation monitoring wells and MNA as a corrective action technology. The GA EPD conditionally approved the Updated Groundwater CAP in a letter dated November 30, 2012. ENERCON submitted a Milestone Schedule dated December 18, 2012 to the GA EPD that outlined the time period for the additional monitoring well installation as well as the quarterly groundwater sampling events, and the semi-annual reporting schedule.

2.2.5 Groundwater Assessment: February through May 2013

In February 2013, ENERCON installed five monitoring wells (MW-10 through MW-14) to further delineate the groundwater impacts at the Site. During installation, soil samples were collected in 5 foot depth intervals and field screened with a PID and soil samples were collected from the well borings ranging in depth from 15 to 30 ft bgs and submitted to AES in Atlanta, Georgia under standard chain-of-custody protocol for analysis of VOCs by EPA Method 8260B. No VOCs were detected in the soil samples above the laboratory reporting limits with the exception of acetone from the soil sample collected from MW-13 at 0.18 mg/kg. The locations of the monitoring well borings are presented on Figure 3, and Figure 6 presents the soil quality map from the monitoring well borings. Table 1 presents a summary of the monitoring well boring analytical data.

Following soil sample collection, monitoring wells were installed in each boring to facilitate well development and groundwater sample collection. The monitoring wells were constructed so the well screens straddled the water table at the time of construction. The monitoring wells were constructed with 2-inch ID Schedule 40 PVC riser and 2-inch-ID PVC 0.010-inch machine-slotted well screen. After well installation, the wells were developed using a polyethylene bailer to remove fine-grained material and improve the hydraulic connection with the formation.

ENERCON conducted two comprehensive groundwater sampling events in February 2013 and in May 2013. During the monitoring events, groundwater levels were measured and elevations were calculated to determine the groundwater flow direction. The groundwater flow direction during both events appeared to be toward the north and northwest. Table 4 presents the groundwater elevations.

Prior to collection of groundwater samples during the monitoring events, the wells were purged using either a peristaltic pump or a submersible micro-flow bladder pump until the pH, specific conductance, DO, ORP, and turbidity stabilized. Following stabilization, groundwater samples were collected and submitted to AES in Atlanta, Georgia under standard chain-of-custody procedures. Groundwater samples were collected during February 2013 and May 2013 monitoring events and analyzed for VOCs, total organic carbon (TOC), and sulfide by EPA Methods 8260B, 9060A, 9030B/9034, respectively, and chloride, nitrate, and sulfate by EPA Method 9056A, ethane and methane by EPA Method SOP-RSK175, and ferrous iron by EPA Method 3500-Fe-B.

The VOC results of the groundwater samples indicated:

- PCE was detected in wells MW-1, MW-2, and MW-5. During February 2013, PCE was detected at concentrations ranging from 53 µg/L to 820 µg/L while in May 2013, PCE was detected at concentrations ranging from 50 µg/L to 560 µg/L;
- TCE was detected in wells MW-1, MW-2, MW-3, and MW-5. During February 2013, TCE was detected at concentrations ranging from 9.1 µg/L to 260 µg/L while in May 2013, TCE was detected at concentrations ranging from 6.4 µg/L to 180 µg/L;
- Cis-1,2-DCE was detected in wells MW-1, MW-2, and MW-5 during February 2013 and in wells MW-1, MW-2, and MW-3 in May 2013. During February 2013, cis-1,2-DCE was detected at concentrations ranging from 5.1 µg/L to 27 µg/L while in May 2013, cis-1,2-DCE was detected at concentrations ranging from 5.5 µg/L to 13 µg/L;
- Trans-1,2-DCE was detected in wells MW-1 and MW-2 in February 2013 at 8.5 µg/L and 11 µg/L, respectively, and in May 2013 at 8.0 µg/L and 13 µg/L, respectively;

- Monitoring wells MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, and MW-14 were below laboratory reporting limits for all VOC constituents during the February and May 2013 monitoring events;
- MW-9 was dry during the February and May 2013 monitoring events and therefore not sampled.

Table 3 presents a summary of the groundwater analytical data.

2.2.6 Groundwater Assessment: August through November 2013

ENERCON conducted two comprehensive groundwater sampling events in August 2013 and November 2013. During the monitoring events, groundwater levels were measured and elevations were calculated to determine the groundwater flow direction. The groundwater flow direction during both events appeared to be toward the north and northwest. Table 4 presents the groundwater elevations.

Prior to collection of groundwater samples during the monitoring events, the wells were purged using either a peristaltic pump or a submersible micro-flow bladder pump until the pH, specific conductance, DO, ORP, and turbidity stabilized. Following stabilization, groundwater samples were collected and submitted to AES in Atlanta, Georgia under standard chain-of-custody procedures. Groundwater samples were collected during August 2013 and November 2013 monitoring events and analyzed for VOCs, TOC, and sulfide by EPA Methods 8260B, 9060A, 9030B/9034, respectively, and chloride, nitrate, and sulfate by EPA Method 9056A, ethane and methane by EPA Method SOP-RSK175, and ferrous iron by EPA Method 3500-Fe-B.

The VOC results of the groundwater samples indicated:

- PCE was detected in wells MW-1, MW-2, MW-3, and MW-5 during August 2013 and in wells MW-1, MW-2, and MW-5 in November 2013. During August 2013, PCE was detected at concentrations ranging from 7.8 µg/L to 450 µg/L while in November 2013, PCE was detected at concentrations ranging from 42 µg/L to 890 µg/L;
- TCE was detected in wells MW-1, MW-2, MW-3 in August 2013 and in wells MW-1, MW-2, MW-3, and MW-5 in November 2013. During August 2013, TCE was detected at concentrations ranging from 12 µg/L to 300 µg/L while in November 2013, TCE was detected at concentrations ranging from 7.6 µg/L to 320 µg/L;
- Cis-1,2-DCE was detected in wells MW-1 and MW-2 in August 2013 at 8.3 µg/L and 25 µg/L, respectively, and in November 2013 at 29 µg/L and 22 µg/L, respectively;
- Trans-1,2-DCE was detected in well MW-2 in August 2013 at 16 µg/L and in wells MW-1 and MW-2 in November 2013 at 30 µg/L and 17 µg/L, respectively;
- Monitoring wells MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, MW- 12, MW-13, and MW-14 were below laboratory reporting limits for all VOC constituents during the August and November 2013 monitoring events;
- MW-9 was dry during the August and November 2013 monitoring events and therefore not sampled.

Table 3 presents a summary of the groundwater analytical data.

Hydraulic conductivity tests were performed in monitoring wells MW-4, MW-5, and MW-6 using the rising head slug test method. Due to the slow groundwater recharge rate observed on the Site, slug test data was recorded with a data logger device. The hydraulic conductivity of the aquifer was calculated based on the method developed by Bouwer and Rice in 1976. The measured hydraulic conductivities for wells MW-4, MW-5, and MW-6, were 1.03×10^{-2} feet per day (ft/day), 2.346×10^{-2} ft/day, and 6.377×10^{-2} ft/day, respectively. The geometric average of the three wells produced an average hydraulic conductivity of 3.251×10^{-2} ft/day.

Based on the potentiometric surface at the Site, an approximate hydraulic gradient of 0.045 feet per foot (ft/ft) was calculated between MW-4 and MW-5.

Using the average hydraulic conductivity and approximate hydraulic gradient and an assumed effective porosity of 16 percent, the groundwater velocity across the Site was calculated to be 0.914 x 10^{-2} ft/day or approximately 3.34 feet per year (ft/year).

2.2.7 Groundwater Assessment: October 2014

ENERCON conducted a comprehensive groundwater sampling event in October 2014. During the monitoring event, groundwater levels were measured and elevations were calculated to determine the groundwater flow direction. The groundwater flow direction appeared to be toward the north and northwest. Table 4 presents the groundwater elevations.

Prior to collection of groundwater samples during the monitoring event, the wells were purged using either a peristaltic pump or a submersible micro-flow bladder pump until the pH, specific conductance, DO, ORP, and turbidity stabilized. Following stabilization, groundwater samples were collected and submitted to AES in Atlanta, Georgia under standard chain-of-custody procedures. Groundwater samples were collected during October 2014 monitoring event and analyzed for VOCs, TOC, and sulfide by EPA Methods 8260B, 9060A, 9030B/9034, respectively, and chloride, nitrate, and sulfate by EPA Method 9056A, ethane and methane by EPA Method SOP-RSK175, and ferrous iron by EPA Method 3500-Fe-B.

The VOC results of the groundwater samples indicated:

- PCE was detected in wells MW-1, MW-2, and MW-5 during October 2014 at concentrations ranging from 110 µg/L to 760 µg/L;
- TCE was detected in wells MW-1, MW-2, MW-3, and MW-5 in October 2014 at concentrations ranging from 15 µg/L to 300 µg/L;
- Cis-1,2-DCE was detected in wells MW-1, MW-2, MW-3, and MW-5 in October 2014 at concentrations ranging from 5.4 µg/L to 31 µg/L;
- Trans-1,2-DCE was detected in wells MW-1 and MW-2 in October 2014 at 25 µg/L and 17 µg/L, respectively;
- Monitoring wells MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, MW- 12, MW-13, and MW-14 were below laboratory reporting limits for all VOC constituents during the October 2014 monitoring event;
- MW-9 was dry during the October 2014 monitoring event and therefore not sampled.

Table 3 presents a summary of the groundwater analytical data.

ENERCON recommended performing a pilot study by injecting potassium permanganate ($KMnO_4$) to accelerate the degradation of the chlorinated solvents that remain in the subsurface at Site. ENERCON proposed injecting a 6-12 percent potassium permanganate solution into wells MW-1, MW-2, MW-3 and MW-5. In addition, ENERCON proposed to install well PMW-15 near the location of MW-9 because well MW-9 has been dry since being installed in 2011. Furthermore, PMW-15 and remaining Site monitoring wells were recommended for monitoring on a semi-annual basis.

2.2.8 Groundwater Assessment: September 2015

In September 2015, ENERCON installed one monitoring well (MW-15) to replace well MW-9 that had been observed to be dry since it was installed in 2011. During installation, soil samples were collected in 5 foot depth intervals and field screened with a PID and soil samples were collected from the well boring from 25 to 27 feet bgs and submitted to AES in Atlanta, Georgia under standard chain-of-custody protocol for analysis of VOCs by EPA Method 8260B. No VOCs were detected in the soil sample above the laboratory reporting limits. The locations of the monitoring well borings are presented on Figure 3, and Figure 6 presents the soil quality map from the monitoring well borings. Table 1 presents a summary of the monitoring well boring analytical data.

Following soil sample collection, monitoring well MW-15 was installed in the boring to facilitate well development and groundwater sample collection. The monitoring well was constructed so the well screen straddled the water table at the time of construction. The monitoring well was constructed with 2-inch ID Schedule 40 PVC riser and 2-inch-ID PVC 0.010-inch machine-slotted well screen. After well installation, the well was developed using a polyethylene bailer to remove fine-grained material and improve the hydraulic connection with the formation.

ENERCON conducted a comprehensive groundwater sampling event in September 2015. During the monitoring event, groundwater levels were measured and elevations were calculated to determine the groundwater flow direction. The groundwater flow direction appeared to be toward the north. Table 4 presents the groundwater elevations.

Prior to collection of groundwater samples during the monitoring event, the wells were purged using either a peristaltic pump or a submersible micro-flow bladder pump until the pH, specific conductance, DO, ORP, and turbidity stabilized. Following stabilization, groundwater samples were collected and submitted to AES in Atlanta, Georgia under standard chain-of-custody procedures. Groundwater samples were collected during September 2015 monitoring event and analyzed for VOCs, TOC, and sulfide by EPA Methods 8260B, 9060A, 9030B/9034, respectively, and chloride, nitrate, and sulfate by EPA Method 9056A, ethane and methane by EPA Method SOP-RSK175, and ferrous iron by EPA Method 3500-Fe-B.

The VOC results of the groundwater samples indicated:

- PCE was detected in wells MW-1, MW-2, and MW-5 during September 2015 at concentrations ranging from 55 µg/L to 710 µg/L;
- TCE was detected in wells MW-1, MW-2, MW-3, and MW-5 in September 2015 at concentrations ranging from 9.7 µg/L to 330 µg/L;
- Cis-1,2-DCE was detected in wells MW-1, MW-2, and MW-3 in September 2015 at concentrations ranging from 8.4 µg/L to 40 µg/L;
- Trans-1,2-DCE was detected in wells MW-1 and MW-2 in September 2015 at 31 µg/L and 22 µg/L, respectively;
- Monitoring wells MW-4, MW-6, MW-7, MW-8, MW- 10, MW-11, MW-12, MW-13, MW-14 and MW-15 were below laboratory reporting limits for all VOC constituents during the September 2015 monitoring event;
- MW-9 was dry during the September 2015 monitoring event and therefore not sampled.

Table 3 presents a summary of the groundwater analytical data.

ENERCON revised their previous pilot study recommendation of injecting $KMnO_4$ to a pilot study using sodium persulfate to accelerate the degradation of the chlorinated solvents that remain in the subsurface at Site. ENERCON proposed injecting a 25 percent sodium persulfate solution with chelated iron into wells MW-1, MW-2, MW-3 and MW-5.

2.2.9 Pilot Study and Groundwater Assessment: November 2015 and March 2016

ENERCON performed an in-situ chemical oxidation (ISCO) injection pilot study at the Site in November 2015. The pilot study utilized an approximate 20 percent sodium persulfate solution activated by chelated iron that was injected under low pressure into wells MW-1, MW-2, MW-3 and MW-5.

Approximately four months after the ISCO pilot study was conducted at the Site, ENERCON conducted a comprehensive groundwater sampling event in March 2016. During the monitoring event, groundwater levels were measured and elevations were calculated to determine the groundwater flow direction. The groundwater flow direction appeared to be toward the north. Table 4 presents the groundwater elevations.

Prior to collection of groundwater samples during the monitoring event, the wells were purged using either a peristaltic pump or a submersible micro-flow bladder pump until the pH, specific conductance, DO, ORP, and turbidity stabilized. Following stabilization, groundwater samples were collected and submitted to Pace Analytical in Huntersville, North Carolina under standard chain-of-custody procedures. Groundwater samples were collected during September 2015 monitoring event and analyzed for VOCs, TOC, and sulfide by EPA Methods 8260B, 9060A, 9030B/9034, respectively, and chloride, nitrate, and sulfate by EPA Method 9056A, ethane and methane by EPA Method SOP-RSK175, and ferrous iron by EPA Method 3500-Fe-B.

The VOC results of the groundwater samples indicated:

- PCE was detected in wells MW-1, MW-2, and MW-5 during March 2016 at concentrations ranging from 4.9 µg/L to 87.4 µg/L;
- TCE was detected in wells MW-1, MW-2, MW-3, and MW-5 in March 2016 at concentrations ranging from 2.6 µg/L to 42 µg/L;
- Cis-1,2-DCE was detected in wells MW-1 and MW-2 in March 2016 at concentrations of 9.2 µg/L and 1.3 µg/L, respectively;
- Trans-1,2-DCE was detected in well MW-1 in March 2016 at 2.6 µg/L;
- Vinyl chloride was detected in well MW-1 in March 2016 at 3.6 µg/L;
- Monitoring wells MW-4, MW-6, MW-7, MW-8, MW- 10, MW-11, MW-12, MW-13, MW-14 and MW-15 were below laboratory reporting limits for all VOC constituents during the March 2016 monitoring event;
- MW-9 was dry during the March 2016 monitoring event and therefore not sampled.

Table 3 presents a summary of the groundwater analytical data.

2.2.10 Groundwater Assessment: October 2016 and June 2017

ENERCON conducted two comprehensive groundwater sampling events in October 2016 and June 2017. During the monitoring events, groundwater levels were measured and elevations were calculated to determine the groundwater flow direction. The groundwater flow direction during both events appeared to be toward the north. Figure 7 presents the potentiometric surface map for the June 2017 groundwater sampling event and Table 4 presents the groundwater elevations.

Prior to collection of groundwater samples during the monitoring events, the wells were purged using either a peristaltic pump or a submersible micro-flow bladder pump until the pH, specific conductance, DO, ORP, and turbidity stabilized. Following stabilization, groundwater samples were collected and submitted to Pace Analytical in Huntersville, North Carolina under standard chain-of-custody procedures. Groundwater samples were collected during October 2016 and June 2017 monitoring events and analyzed for VOCs, TOC, sulfide and chloride by EPA Methods 8260B, 5310B, and SM 4500 S2D/Cl-E, respectively, and nitrate and sulfate by EPA Methods 353.2 and 300.0, respectively, ethane, ethane and methane by EPA Method SOP-RSK175, ferrous iron by EPA Method 3500-Fe-B, and Resource Conservation and Recovery Act (RCRA) Metals by EPA Method 6010/7470.

The VOC results of the groundwater samples indicated:

- PCE was detected in wells MW-1, MW-2, MW-3, MW-5, and MW-14 in October 2016 and in wells MW-1, MW-2, MW-3, and MW-5 in June 2017. During October 2016, PCE was detected at concentrations ranging from 3.4 µg/L to 168 µg/L while in June 2017, PCE was detected at concentrations ranging from 4.2 µg/L to 283 µg/L;
- TCE was detected in wells MW-1, MW-2, MW-3, and MW-5. During October 2016, TCE was detected at concentrations ranging from 10.4µg/L to 71.8 µg/L while in June 2017, TCE was detected at concentrations ranging from 9.9 µg/L to 144 µg/L;

- Cis-1,2-DCE was detected in wells MW-1, MW-2, and MW-3 in October 2016 and in wells MW-1, MW-2, MW-3, and MW-5 in June 2017. During October 2016, cis-1,2-DCE was detected at concentrations ranging from 7.3 µg/L to 13.4 µg/L while in June 2017, cis-1,2-DCE was detected at concentrations ranging from 1.0 µg/L to 24 µg/L;
- Trans-1,2-DCE was detected in wells MW-1, MW-2, MW-3, and MW-5 in October 2016 at concentrations ranging from 1.0 µg/L to 5.6 µg/L while in June 2017, trans-1,2-DCE was detected in wells MW-1 and MW-2 at concentrations of 12.0 µg/L and 11.7 µg/L, respectively;
- 1,1-DCE was detected in well MW-3 in October 2016 1.0 µg/L.
- Monitoring wells MW-4, MW-6, MW-7, MW-8, MW- 10, MW-11, MW-12, MW-13, and MW-15 were below laboratory reporting limits for all VOC constituents during the October 2016 monitoring event while monitoring wells MW-4, MW-6, MW-7, MW-8, MW- 10, MW-11, MW-12, MW-13, MW-14, and MW-15 were below laboratory reporting limits for all VOC constituents during the June 2017 monitoring event;
- MW-9 was dry during the October 2016 and June 2017 monitoring events and therefore not sampled.

Figure 8 presents the groundwater quality map for the June 2017 groundwater monitoring event, and Table 3 summarizes the historical groundwater sample results through June 2017. Table 5 presents the summary of the analytical data for RCRA metals in groundwater. The laboratory report for the June 2017 groundwater sampling event is presented in Appendix C.

ENERCON recommended a second ISCO injection event consisting of 450 gallons of a 20 percent sodium persulfate solution with chelated iron into wells MW-1, MW-2, MW-3 and MW-5.

2.2.11 Assessment of Vapor Intrusion Potential: October 2017

Contour installed five soil vapor implants (SVI-1 through SVI-5) through the concrete slab inside the Kroger building using a rotary impact hammer drill on October 25, 2017 and collected sub-slab soil vapor samples on October 26, 2017. The vapor implant locations are shown on Figure 9. The soil vapor implants were placed approximately two feet below the base of the concrete slab. One soil vapor sample was collected from each location in summa canisters and submitted to AES in Atlanta, Georgia under standard chain-of-custody procedures for laboratory analysis of VOCs using EPA Method TO-15. The results of the soil vapor samples are summarized in Table 6 and a copy of soil vapor laboratory report is presented in Appendix D.

Low level concentrations of VOCs were detected in each soil vapor sample location. Contour performed a vapor intrusion evaluation for the Site using the EPA's vapor intrusion screening level (VISL) calculator to evaluate whether the VOC concentrations in the soil vapor samples posed a risk to indoor air via the soil gas to indoor air pathway. The VISL evaluation was a comparison of the VOC concentrations detected in sub-slab soil vapor samples during the October 2017 soil vapor sampling effort to target risk levels (1E-5 target risk for carcinogenic compounds and a 1.0 target hazard quotient [HQ] for non-carcinogenic compounds, under a commercial exposure scenario) using the VISL calculator.

The cumulative carcinogenic risk, as calculated with the VISL calculator, ranged from 1.27E-7 (1.27 in 10,000,000) in SVI-3 to 1.72E-6 (1.72 in 1,000,000) in SVI-2. The HQ ranged from 3.43E-2 in SVI-3 to 4.65E-1 in SVI-2. The results of the VISL calculation indicates the VOC concentrations in the sub-slab soil vapor samples do not pose a vapor intrusion risk above the accepted carcinogen risk factor under a commercial scenario (1E-5 or 1 in 100,000) or the target HQ for non-carcinogens of 1.0. A copy of the VISL screening results are presented in Appendix E.

Based on the sub-slab soil vapor data collected during the October 2017 soil vapor sampling effort and the results of the VISL evaluation, there does not appear to be a potential for vapor intrusion into the Kroger building that would exceed regulatory established risk factors under a commercial exposure scenario.

SECTION 3.0

Conceptual Site Model

A Conceptual Site Model (CSM) has been developed for this Site using the data obtained during previous investigative activities at the Site and from the previous reports. The preliminary CSM will be updated and refined, as additional information is collected. The preliminary CSM details the Site's surface and subsurface conditions, known or suspected sources of contamination, potential contamination transport mechanisms, the known extent of contamination, and exposure pathways for potential receptors. Figures 4 through 10 illustrate the CSM components discussed in the following sections.

3.1 Geology and Hydrogeology

The Site is located in the Fall Line region, which separates the Upper Coastal Plain Physiographic Province of coastal Georgia from the Piedmont Physiographic Province of northern Georgia. The fall line is a geologic boundary about twenty miles wide that runs across Georgia northeastward from Columbus to Augusta. As the Mesozoic shoreline of the Atlantic Ocean, it separates Upper Coastal Plain sedimentary rocks to the south from Piedmont crystalline rocks to the north. Study area bedrock is mapped as meta-argillite-phyllite (*Geologic Map of Georgia*, Georgia Geologic Survey, 1977).

Based on soil sampling and lithology descriptions by others, observed soils consist of a mix of residual and imported fill materials that are predominantly fine- grained with low plasticity, which have been generally classified as typical Fall Line and Coastal Plain materials consisting of sandy silts and silty sands. In addition, a layer of organics has been encountered during soil borings and the elevation of the organic layer typically increases with depth from the south toward the north (i.e., front of the property to the rear), and was generally located between 14 to 25 feet bgs. Soil boring logs are presented in Appendix F. Figure 10 presents a north/south cross-sections of the Site based on the soil boring logs.

Shallow groundwater at the Site occurs between approximately 14 feet bgs in the upgradient (southern) direction to approximately 37 feet bgs in the downgradient (northern) direction of the Site. Seasonal groundwater fluctuations range from approximately 4 feet on the southern portion to approximately 3 feet on the northern portion of the Site. Using depth to groundwater measurements, groundwater elevations have been calculated to determine the groundwater flow direction. Table 4 presents the historical groundwater measurements and elevations. The groundwater flow direction across the Site has been consistently determined to be toward the north to northwest. Figure 7 presents the most recent potentiometric surface map for the Site based on groundwater measurements from June 2017.

Previous aquifer testing, consisting of rising head slug tests, has been conducted to determine the hydraulic conductivity and to assess the groundwater seepage velocity across the Site. By using the average hydraulic conductivity of 3.251×10^{-2} ft/day, a gradient of 0.045, and an assumed effective porosity of 16 percent, the groundwater seepage velocity across the Site has been calculated to be 0.914×10^{-2} ft/day or approximately 3.34 feet/year.

3.2 Residual Contaminants of Concern

3.2.1 Soil

Between June 2006 and August 2007, numerous soil borings were advanced for collection of soil samples to identify the source of the PCE release and to evaluate the extent of PCE and its degradation by-products TCE and cis-1,2-DCE. During the soil assessments, results of the soil sampling activities indicated the source of PCE was a result of surface dumping, spillage and/or leakage from storage containers. It appeared that the PCE infiltrated to the soils via cracks in the overlying concrete around a sanitary sewer manhole, as the highest soil concentrations of PCE, TCE, and cis-1,2-DCE were found near the sewer manhole, with lower concentrations found in other areas

near a sanitary sewer line. Figure 4 presents the soil quality map from the 2006 and 2007 soil borings and Table 1 presents a summary of the soil boring analytical data.

In August 2007, corrective action consisting of soil excavation was conducted to remove PCE, TCE, and cis-1,2-DCE impacted soils that exceeded the non-residential Type 3 RRS. The area where soils were excavated consisted of approximately 693 square feet around boring location B-6, which exhibited the highest concentration of PCE (2.8 mg/kg) detected during the soil assessments. The excavation extended to a depth of approximately 16 feet bgs, which represents the approximate depth to the water table, resulting in approximately 411 cubic yards of excavated soil. Confirmatory soil samples were collected from the bottom and sidewalls of the excavation to document soils exceeding the non-residential Type 3 RRS were removed. Samples were collected approximately every 25 feet along the sidewalls of the excavation, with one sample collected just north of the sanitary sewer manhole. Additionally, samples were collected from these locations over several excavation lifts in order to characterize, segregate and dispose of the impacted soils. Upon completion of the excavation, soil samples were collected from the floor and walls of the excavation using a hand auger for laboratory analysis.

The data collected during the excavation indicated that the most impacted unsaturated soils have been removed from the Site subsurface and that remaining impacts were below the non-residential Type 3 RRS. Figure 5 presents the analytical data for the soil samples collected during the excavation activities. Analytical data collected from the corners of the excavation verify soils exceeding the non-residential Type 3 RRS have been removed from the source area. Table 2 summarizes the soil excavation sample analytical data.

The analytical data collected prior to a during the excavation activities indicated that only PCE was present in sufficient quantities to exceed the non-residential Type 3 RRS. The concentrations of PCE in soil observed from 16 and 16.5 feet bgs is likely attributable to the soils being saturated due to their proximity to the groundwater table. This depth is within the water table smear zone and the concentrations are likely attributable to the soils being saturated due to their proximity to the groundwater table. Further excavation would have extended into the water table and into the groundwater plume and would not have likely yielded meaningful reductions in PCE concentrations in the soil samples.

Following the excavation activities, the GA EPD requested five additional soil borings for collection of soil samples at the depth of the invert elevation of the sanitary sewer line along its length and at its lowest elevation at the manhole located downgradient to the north in an effort to assess whether the soil impacts were due to leaching from the sewer line along its length and at the northern manhole. The locations of the five soil borings, B-15 through B-19, are presented on Figure 4. The borings were placed in linear increments of approximately 20 feet along the along the sewer line to the north of the soil excavation pit. Table 1 presents a summary of the soil boring analytical data.

Soil sample data collected in August 2007 along the sanitary sewer line indicated that PCE at a depth of 10 feet, which is the approximate sewer invert elevation, decreases to below laboratory reporting limits between 25 and 50 feet north of the of the sewer manhole directly behind the former dry cleaners. The soil samples collected along the sewer line to the north at a depth of 8 to 12 feet bgs including a sample collected at a depth of 28 to 32 feet bgs adjacent to the northern manhole were below reporting limits for all constituents. Soil impacts to the north along the sewer line pathway was completely delineated.

The soils located on the Site were sampled and analyzed for VOCs and the laboratory reporting limits for those analytes tested were established at levels less than the applicable non-residential Type 3 RRS. Based on the extensive soil sampling efforts, removal of impacted soils exceeding the applicable RRS above the water table/vadose zone interface (i.e., smear zone), and confirmation sampling, the soil impacts at the Site have been horizontally and vertically delineated and/or remediated. Below is a listing of the highest concentration of each analyte remaining in soil at the Site. Where possible, the concentrations of each analyte were compared to the residential Type 1 RRS; however, compounds exceeding the Type 1 RRS were compared to their respective non-residential Type 3 RRS below:

Compound	Location	Depth	Highest Concentration	RRS	RRS Type
Acetone	MW-8	5 feet	0.22 mg/kg	400 mg/kg	Type 1/Type 3[1]
Tetrachloroethene[2]	MW-2	14 feet	0.041 mg/kg	0.50 mg/kg	Type 1/Type 3[1]
Tetrachloroethene[3]	W2	16 feet	1.17 mg/kg	0.50 mg/kg	Type 1/Type 3[1]
Trichloroethene[3, 4]	W1 L8 S36	16 feet 16.5 feet	0.057 mg/kg	0.50 mg/kg	Type 1/Type 3[1]
cis-1,2-dichloroethene[3, 4]	L8 S36	16.5 feet	0.039 mg/kg	7.00 mg/kg	Type 1/Type 3[1]

Notes:

[1] = Type 1 and Type 3 RRS are the same value for this compound.

[2] = The highest concentration of tetrachloroethene in unsaturated soils above the water table/vadose zone interface (i.e., smear zone).

[3] = The highest concentrations of tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene remaining in soils on the Site were collected within the water table/vadose zone interface (i.e., smear zone) and therefore these concentrations are likely influenced by the presence of the constituents present in the groundwater. Concentrations of these constituents above the water table/vadose zone interface (i.e., smear zone) are below the Type 1/Type 3 RRS.

[4] = No residual trichloroethene or cis-1,2-dichloroethene were detected above the laboratory reporting limit in unsaturated soils above the water table/vadose zone interface (i.e., smear zone).

3.2.2 Groundwater

As discussed in Section 2, groundwater samples have been collected from the Site since June 2006. Most recently, groundwater samples were collected from 14 of the 15 existing shallow groundwater monitoring wells between June 7 and 8, 2017. MW-1 through MW-8 and MW-10 through MW-15. Well MW-9 was dry during the monitoring period.

During the June 2017 monitoring event, the average groundwater elevation increased 1.06 feet across the Site since the previous monitoring event conducted in October 2016. The measured groundwater levels were used to create a potentiometric map for the June 2017 monitoring event. The groundwater flow direction for this event was toward the north, which is similar to the previous sampling events. The potentiometric map for June 2017 is presented on Figure 7. Table 4 presents the historical groundwater level measurements at the Site.

Groundwater samples were collected during the June 2017 monitoring event and analyzed for ethane, ethene, and methane by Method RSK 175, mercury by EPA Method 7470, VOCs by US EPA Method 8260B, ferrous iron (Fe+2) by Method SM 3500, sulfide and chloride by Method SM 4500 S2D/Cl-E, sulfate by EPA Method 300.0, Nitrate by EPA Method 353.2, and TOC by EPA Method 5310B. Groundwater Wells MW-1, MW-2, MW-3, and MW-5 were also analyzed for RCRA metals by EPA Method 6010.

During the monitoring event, a peristaltic pump using dedicated Teflon-lined tubing was used to purge groundwater in monitoring wells MW-1 through MW-8, MW-10, MW-11, and MW-15. A submersible micro-flow bladder pump using Teflon-lined tubing was used to purge groundwater in monitoring wells MW-12, MW-13, and MW-15. The Teflon-lined tubing was placed at the mid-way point of the groundwater/screen interval in each of the monitoring wells. All monitoring wells were purged using low-flow techniques and a groundwater sample was collected following stabilization of pH, specific conductance, DO, ORP, and turbidity. All reusable sampling equipment was decontaminated following the sampling of each well.

The groundwater samples collected during the June 2017 sampling event were placed directly into laboratory provided and preserved containers, labeled, placed on ice, and couriered to Pace Analytical in Huntersville, North Carolina under standard COC procedures. The sample containers for each monitoring well were handled using new disposable nitrile gloves. Additionally, the sampling equipment that came into contact with the groundwater was decontaminated using a mixture of alconox soap and distilled water, followed by rinsing with distilled water.

Ten of the 14 groundwater samples collected at the Site (MW-4, MW-6, MW-7, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, and MW-15) did not have any detection of VOCs during the June 2017 monitoring event. The groundwater sample collected from monitoring well MW-1 was observed to have the highest PCE concentration

during the June 2017 groundwater sampling event at 283 µg/L. A copy of the June 2017 groundwater laboratory report in provided in Appendix C.

During the June 2017 monitoring event, the groundwater sample collected from monitoring well MW-1 contained PCE at 283 µg/L, TCE at 144 µg/L, cis-1,2-DCE at 24.0 µg/L, and trans-1,2-DCE at 12.0 µg/L. The groundwater sample collected from monitoring well MW-2 contained PCE at 73.5 µg/L, TCE at 64.3 µg/L, cis-1,2-DCE at 11.6 µg/L, and trans-1-,2-DCE at 11.7 µg/L. The groundwater sample collected from monitoring well MW-3 contained PCE at 4.2 µg/L, TCE at 16.7 µg/L, and cis-1,2-DCE at 5.4 µg/L. The groundwater sample collected from monitoring well MW-5 contained PCE at 48.7 µg/L, TCE at 9.9 µg/L, and cis-1,2-DCE at 1.0 µg/L. Table 3 presents the summary of VOC analytical data and Figure 8 presents the groundwater quality map for the June 2017 groundwater sampling event.

The concentrations of PCE and TCE exceeded the non-residential Type 3 RRS for the Site in the samples collected from monitoring wells MW-1, MW-2, MW-3 (TCE only), and MW-5 during the June 2017 sampling event. Overall VOC concentrations following the November 2015 ISCO injection event show a significant decrease in monitoring wells MW-1, MW-2, and MW-3, but a slight rebound from the March 2016 and October 2016 sampling events. Monitoring wells MW-1, MW-2, and MW-3 are located in the former source area where soils were excavated in August 2007. A slight decrease in PCE and TCE concentrations was observed in the sample collected from monitoring well MW-5 from the October 2016 sampling event to the June 2017 sampling event. The highest PCE concentration observed onsite remains in a sample collected from monitoring well MW-1 at 283 µg/L. Also, the highest TCE concentration observed onsite was in the sample collected from monitoring well MW-1 at 144 µg/L.

Following the ISCO injection event conducted in November, 2015 during the both the March and October 2016 sampling events, additional VOC's (acetone, bromochloromethane, bromomethane, 2-butanone, chloroform, chloromethane, 1,1-DCE, methylene chloride, 1,1,2,2-trichloroethane, and vinyl chloride) not associated with the initial release were observed in the samples collected from monitoring wells MW-1, MW-2, MW-3 and MW-5. During the June 2017 sampling event, only chloromethane was observed in the sample collected from monitoring well MW-2 at 2.5 µg/L.

During the June 2017 monitoring event, groundwater samples that were collected from the ISCO injection wells (MW-1, MW-2, MW-3, and MW-5) were analyzed for RCRA metals. Arsenic, barium, cadmium, and chromium were detected above laboratory reporting limits in samples collected from wells MW-1 and MW-2. MW-3 and MW-5 contained barium at concentrations above the laboratory reporting limits. MW-3 also contained chromium at a concentration above the laboratory reporting limit. None of the samples collected for RCRA metals exhibited concentrations exceeding the non-residential Type 3 RRS. Table 5 presents the summary of RCRA metal analytical data.

In June 2017, the groundwater at the Site was sampled and analyzed for VOCs and RCRA metals and the laboratory reporting limits for those analytes tested were established at levels less than the applicable non-residential Type 3 RRS. Based on the June 2017 sampling effort, the groundwater impacts at the Site have been horizontally delineated with the shallow monitoring well network. However, vertical delineation of groundwater impacts has not been conducted. Below is a listing of the highest concentration of each analyte remaining in groundwater at the Site based on the June 2017 groundwater sample data. Where possible, the concentrations of each analyte were compared to the residential Type 1 RRS; however, compounds exceeding the Type 1 RRS were compared to their respective non-residential Type 3 RRS below:

Compound	Location	Highest Concentration	RRS	RRS Type
Tetrachloroethene	MW-1	283 µg/L	5 µg/L	Type 1/Type 3[1]
Trichloroethene	MW-1	144 µg/L	5 µg/L	Type 1/Type 3[1]
cis-1,2-dichloroethene	MW-1	24 µg/L	70 µg/L	Type 1/Type 3[1]
trans-1,2-dichloroethene	MW-1	12 µg/L	100 µg/L	Type 1/Type 3[1]
Chloromethane	MW-2	2.5 µg/L	3 µg/L	Type 1/Type 3[1]
Barium	MW-3	24.8 µg/L	2,000 µg/L	Type 1/Type 3[1]
Cadmium	MW-2	2.2 µg/L	5 µg/L	Type 1/Type 3[1]
Chromium	MW-3	11.9 µg/L	100 µg/L	Type 1/Type 3[1]
Lead	MW-2	9.2 µg/L	15 µg/L	Type 1/Type 3[1]

Notes:
[1] = Type 1 and Type 3 RRS are the same value for this compound.

3.3 Potential Receptors and Exposure Pathways

Based on the nature and extent of impacts at the Site, the following describes the receptors and potential exposure pathways.

3.3.1 Soil Direct Contact and Ingestion - Human Health Risk

The location of historical impacted soil is beneath the current Kroger building of the Site. As previously discussed, soil sampling efforts have both horizontally and vertically delineated soil impacts and corrective actions were performed where impacts exceeded the non-residential Type 3 RRS. The results of the corrective action and soil sampling data collected during previous investigations demonstrate that residual contaminant impacts in vadose zone/unsaturated soils meet both residential Type 1 RRS and non-residential Type 3 RRS. Therefore, human exposure to residual contaminants in soil that exceed a residential scenario does not exist and therefore, direct soil contact and/or ingestion is not a complete exposure pathway.

3.3.2 Groundwater Exposure – Human Health Risk

The Site and surrounding area are served by a municipal water supply system operated by the City of Augusta Water Department. As such, groundwater in this area is not used a drinking water source. The nearest drinking water intake, per discussions with the City of Augusta Water Department, is approximately 1.5-miles from the Site and is owned by the City of Augusta. The nearest domestic drinking water well is located at 1112 Stanley Drive, which is approximately 1,600-feet south (upgradient) of the Site.

Groundwater at the Site remains impacted by PCE and TCE at concentrations exceeding the residential Type 1 RRS, which is the Federal Maximum Contaminant Level (MCL), also known as the Federal Drinking Water Standard. However, the impacted groundwater plume is delineated to a localized area and has not migrated offsite.

Due to the upgradient location of the nearest domestic drinking water well and the delineation of the groundwater plume within the Site boundary, human exposure to impacted groundwater is not currently a complete exposure pathway. However, a groundwater use restriction is not currently present on the Site and therefore, human exposure to impacted groundwater could be complete if a potable well were constructed.

3.3.3 Surface Water Exposure - Human Health Risk and Ecological Risk

As presented in the CSM, groundwater from the Site flows generally toward the north. An intermittent tributary to Rock Creek is located approximately 800 feet northwest (downgradient) of the Site. The tributary receives groundwater discharge during periods of higher water table elevations.

The most recent groundwater sampling data from June 2017 demonstrates that the impacted groundwater plume is delineated to within the Site boundary and offsite migration toward the downgradient surface water body (intermittent tributary to Rock Creek) has not been observed. Based on the age of the release, the known extent of groundwater impact to date, and the limited residual impacts, the groundwater to surface water exposure

pathway is not complete and is not likely to be considered complete in the future. Ongoing monitoring of the Point of Demonstration (POD) well will serve to provide validation.

3.3.4 Vapor Intrusion Exposure - Human Health Risk

Five sub-slab soil vapor samples were collected from soil vapor implants installed beneath the Kroger building and from within the footprint of the groundwater contaminant plume. The soil vapor implants were placed approximately two feet below the base of the Kroger building slab.

Low level concentrations of VOCs were detected in each soil vapor sample location and the concentrations were screened for potential indoor air risk by using the EPA's VISL calculator. The VISL screening was a comparison of the VOC concentrations detected in sub-slab soil vapor samples during the October 2017 soil vapor sampling effort to target risk levels (1E-5 target risk for carcinogenic compounds and a 1.0 target HQ for non-carcinogenic compounds, under a commercial exposure scenario) using the VISL calculator.

The cumulative carcinogenic risk, as calculated with the VISL calculator, ranged from 1.27E-7 (1.27 in 10,000,000) to 1.72E-6 (1.72 in 1,000,000). The HQ ranged from 0.0343 to 0.465. The results of the VISL screening indicates the VOC concentrations in the sub-slab soil vapor samples do not pose a vapor intrusion risk above the accepted carcinogen risk factor under a commercial scenario (1E-5 or 1 in 100,000) or the target HQ for non-carcinogens of 1.0.

The results of the sub-slab vapor sampling data and the VISL screening demonstrate that residual contaminant impacts in vadose zone/unsaturated soils and the groundwater plume are not contributing sub-slab vapor concentrations that could pose a risk to indoor air quality above the accepted carcinogen risk factor under a commercial scenario or the target HQ for non-carcinogens. Therefore, the soil vapor to indoor air pathway is not complete and is not likely to be considered complete in the future due to the previous removal of the source material (i.e., impacted soils) and likely degradation and attenuation of the groundwater plume.

3.4 Environmental Remediation Standards

The selected remediation standards available under the VRP for the impacted environmental media are discussed below.

3.4.1 Soil Criteria

The Site is a non-residential property currently developed with several retail tenants and an anchor store occupied by Kroger that were constructed on the Site in 2008 and are collectively known as the Washington Walk Shopping Center. The applicable compliance criteria for soils based on property use are non-residential Type 3 RRS. However, soils exceeding the non-residential Type 3 RRS have been remediated and residual soil impacts are below the residential Type 1 RRS.

3.4.2 Groundwater Criteria

It is currently Kroger's intent to demonstrate that groundwater will comply with the higher of the non-residential Type 3 or 4 RRS that will be calculated that are protective of the closest downgradient receptor, which is the intermittent tributary to Rock Creek located approximately 800 feet northwest (downgradient) of the Site .

VOCs detected in groundwater at concentrations above residential RRS include PCE and TCE. Because the property usage will be restricted to non-residential, the higher of the non-residential Type 3 or 4 RRS applies. Furthermore, an environmental covenant will be used to restrict the use of groundwater wells on the Site until such time that the control can be eliminated for unrestricted use.

3.4.3 Surface Water Criteria

The remediation criteria for surface water are Georgia In-stream Water Quality Standards (IWQS). The current the groundwater plume is delineated to within the Site boundary and offsite migration toward the downgradient surface water body (intermittent tributary to Rock Creek) has not been observed.

SECTION 4.0

Proposed Voluntary Investigation and Remediation Plan

It is Kroger's objective to remove the Site from the HSI through implementation of an efficient voluntary investigation and remediation plan that is protective of human health and the environment. This section outlines the proposed actions anticipated to satisfy the requirements set forth in the Georgia Voluntary Remediation Act.

4.1 Restrictive Covenant

In the VRP, the Uniform Environmental Covenant (UEC) and various controls (e.g., engineering, institutional) can play a role in controlling future use of the property and use of the soil and water resources. For example, groundwater use controls will affect the potential for future exposure to groundwater beneath the Site.

Therefore, institutional controls will be used to eliminate possible groundwater exposure pathways. Kroger will execute a covenant that restricts the use of surficial groundwater to non-potable uses only for the 20.05-acre Site (tax parcel #013-0-013-00-0) currently owned by Kroger. The covenant will be executed in conformance with Georgia's Uniform Environmental Covenants Act (O.C.G.A. § 44-16-1).

4.2 Soil Investigation and Remediation

The extent of soil impacts has been delineated to the residential Type 1 RRS and soil impacts exceeding the non-residential Type 3 RRS have been remediated through a soil removal corrective action in August 2007. As a result, no further soil investigation, sampling, or corrective action is necessary.

4.3 Groundwater Investigation and Remediation

4.3.1 Deep Well Installation

Once the Site is accepted into the Georgia EPD VRP, Contour will oversee a qualified drilling contractor to install one deep, 2-inch diameter monitoring well to obtain vertical delineation of the dissolved groundwater plume. The deep well will be a double-cased well. The initial well boring will be advanced near the source area and advanced to 40-feet bgs and a 6-inch diameter PVC surface casing will be grouted into place. Following sufficient curing time for the grout, the inner cased well will be advanced to 50-feet bgs through the 6-inch surface casing. The inner cased well will be installed with a 2-inch diameter slotted PVC screen placed from 45 to 50-feet bgs with solid PVC riser extending to ground surface. The location of the proposed deep groundwater monitoring well is shown on Figure 11.

4.3.2 Well Plugging and Abandonment

During the deep well installation event, Contour will properly plug and abandon monitoring well MW-9. Monitoring well MW-9 was installed in August of 2011 and has been historically dry since installation. In September 2015, monitoring well MW-15 was installed near well MW-9 as a replacement well to facilitate groundwater sampling in the vicinity of monitoring well MW-9.

4.3.3 Groundwater Sampling

Following installation of the deep well, one round of groundwater sample collection will be conducted from monitoring wells MW-1 through MW-15 plus the deep well. Groundwater level measurements will be collected from each monitoring well onsite followed by well purging and groundwater sample collection. Groundwater samples collected from each onsite monitoring well will be submitted for analysis of VOCs by EPA Method 8260B.

4.4 Fate and Transport Modeling

Using the updated groundwater sampling data, Contour will utilize the BIOCHLOR model to simulate remediation by natural attenuation of the dissolved groundwater plume. The objective will be to evaluate the levels of contaminant concentrations that can be left in place such that groundwater discharge to surface water will not result in surface water concentrations that exceed Georgia IWQS under low stream flow conditions. The BIOCHLOR model will predict the maximum extent of dissolved-phase plume migration, which may then be compared to the distance to potential points of exposure (e.g., drinking water wells or surface water bodies). The modeling would also be used to establish POD wells upgradient of the stream that would be used to verify the model predictions.

The BIOCHLOR model results will be presented in a Fate & Transport Model report describing the groundwater sampling data, the model input parameters, and the modeling results that are predicted over time.

SECTION 5.0

Milestone Schedule

The VRP specifically identifies four milestones (task and schedule for completion) that are required in each VIRP. These milestones are identified on the conceptual milestone schedule included in Appendix G. The conceptual milestone schedule will be regularly updated throughout implementation of the VIRP. A proposed schedule for the investigation and remedial activities detailed in this VIRP, assuming an approval date of October 19, 2018, is included in the table below:

Task	Start	Completion
Notice of VIRP Approval	October 19, 2018	October 19, 2018
Deep Well Installation	November 12, 2018	November 19, 2018
Site Wide Groundwater Monitoring Event	December 3, 2018	December 12, 2018
BIOCHLOR Modeling	December 17, 2018	January 28, 2019
Semi-Annual Status Report	April 16, 2019	April 19, 2019
Compliance Status Report	February 11, 2018	May 13, 2019

Upon acceptance into the VRP, Kroger will proceed with the activities presented in this VIRP. A progress report, including an updated CSM, will be submitted within 6 months of acceptance into the VRP. Subsequent semi-annual progress reports will be submitted routinely for the duration of the investigation and remediation activities under the VRP.

SECTION 6.0

References

Enercon. 2008. *Groundwater Corrective Action Plan.* Former Lucky Cleaners, 2801 Washington Road, Augusta, Richmond County, Georgia. December.

Enercon. 2011. *Updated Groundwater Corrective Action Plan.* Former Lucky Cleaners, 2801 Washington Road, Augusta, Richmond County, Georgia, HSI# 10845. December.

Enercon. 2013. *Semi-Annual Groundwater Monitoring Report #1.* Former Lucky Cleaners HSI# 10845, 2801 Washington Road, Augusta, Richmond County, Georgia 30909. June.

Enercon. 2014. *Semi-Annual Groundwater Monitoring Report #2.* Former Lucky Cleaners HSI# 10845, 2801 Washington Road, Augusta, Richmond County, Georgia 30909. April.

Enercon. 2015. *Semi-Annual Groundwater Monitoring Report #3.* Former Lucky Cleaners HSI# 10845, 2801 Washington Road, Augusta, Richmond County, Georgia 30909. February.

Enercon. 2015. *Semi-Annual Groundwater Monitoring Report #4.* Former Lucky Cleaners HSI# 10845, 2801 Washington Road, Augusta, Richmond County, Georgia 30909. December.

Enercon. 2016. *Semi-Annual Groundwater Monitoring Report #5.* Former Lucky Cleaners HSI# 10845, 2801 Washington Road, Augusta, Richmond County, Georgia 30909. May.

Enercon. 2017. *Semi-Annual Groundwater Monitoring Report #6.* Former Lucky Cleaners HSI# 10845, 2801 Washington Road, Augusta, Richmond County, Georgia 30909. February.

Enercon. 2017. *Semi-Annual Groundwater Monitoring Report #7.* Former Lucky Cleaners HSI# 10845, 2801 Washington Road, Augusta, Richmond County, Georgia 30909. July.

Georgia Geologic Survey. 1977. *Geologic Map of Georgia.*

Figures

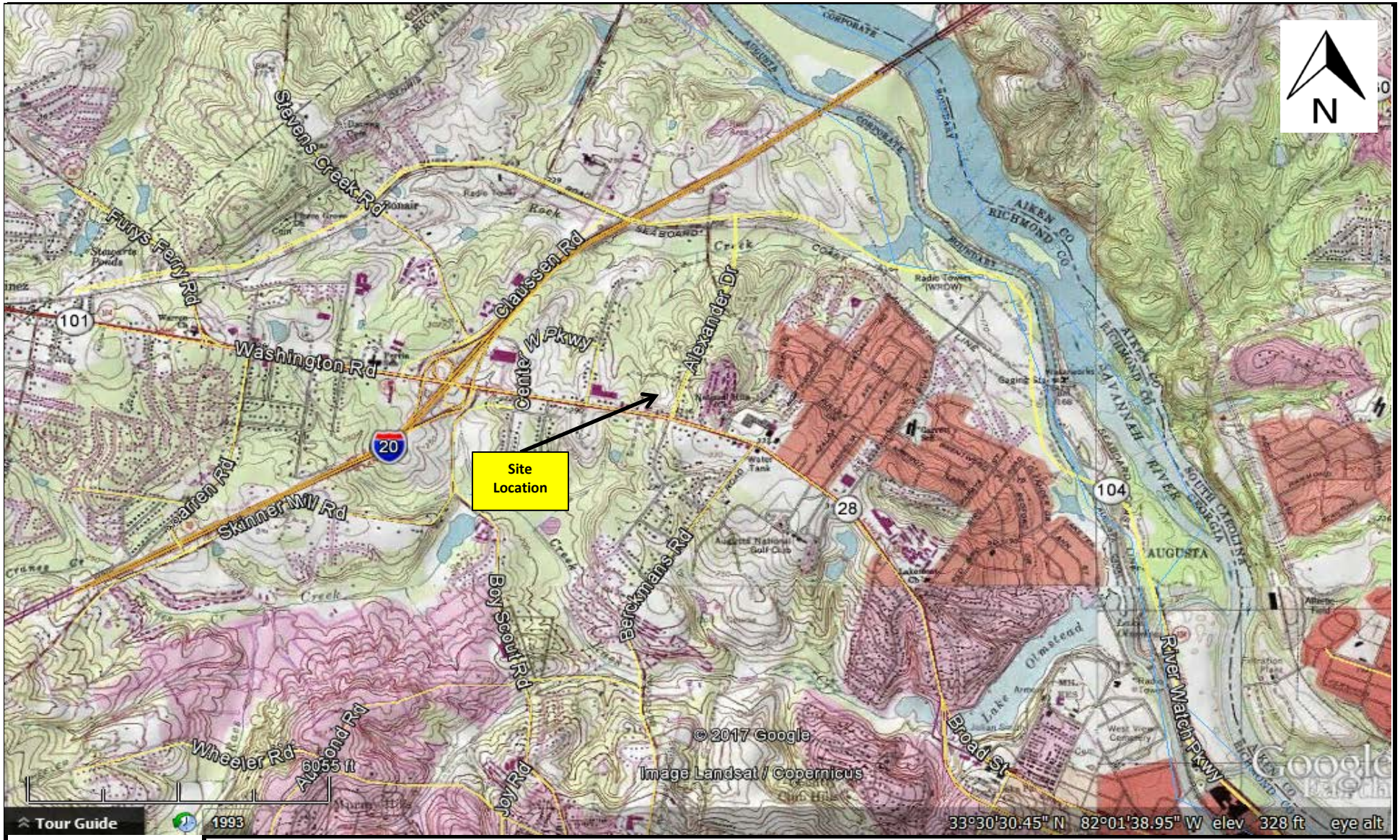


Figure 1: Site Location Map

CONTOUR ENGINEERING

Legend
Source: Google Earth

PROJECT
Kroger #676
2801 Washington Road
Augusta, Richmond County, Georgia
Contour Project: E18KRO:07

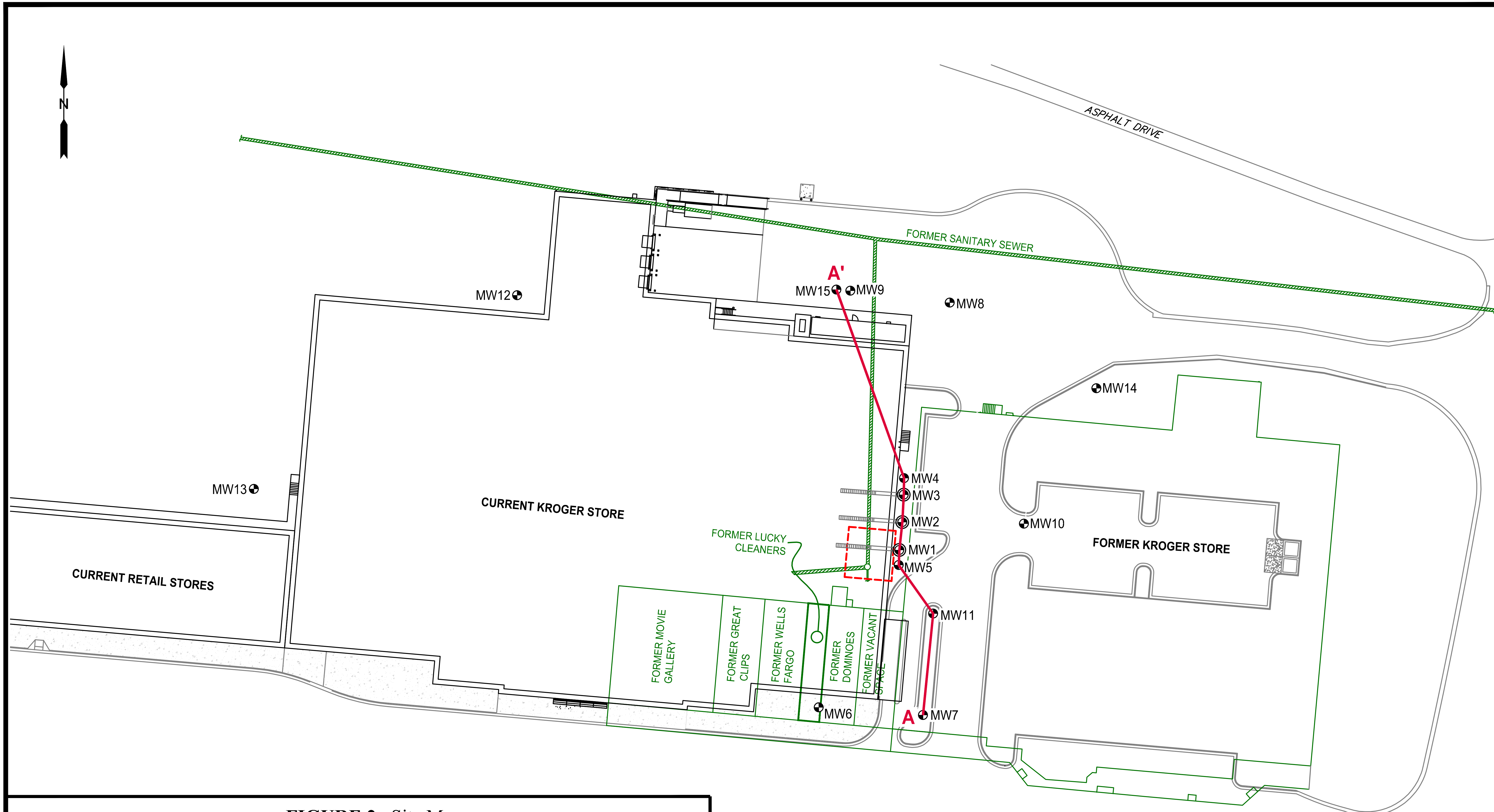


FIGURE 2: Site Map

CONTOUR ENGINEERING

Project No. E18KRO:07

5/1/2018

The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

LEGEND:

- Directional Monitoring Well Location
- Monitoring Well Location

Former footprint of store outlined in green

Approximate area of soil excavation outlined in red

A ——— A' Cross Section Transect

N

ASPHALT DRIVE

FORMER SANITARY SEWER

MW12

MW15 MW9

B-19

MW8

B-18

B-17

MW14

B-16

B-15 MW4

B-12

MW3

B-11

MW2

MW13

CURRENT KROGER STORE

FORMER LUCKY CLEANERS

MW10

FORMER KROGER STORE

B-14

B-13 B-6 MW1

B-10

B-7

B-8 MW5

B-9

B-2

CURRENT RETAIL STORES

B-5

MW11

B-1

FORMER MOVIE GALLERY

FORMER GREAT CLIPS

FORMER WELLS FARGO

FORMER VACANT SPACE

B-3

B-4

FORMER DOMINOES

MW6

MW7

FIGURE 3: Boring Location Map

CONTOUR ENGINEERING

Project No. E18KRO:07

5/1/2018

The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

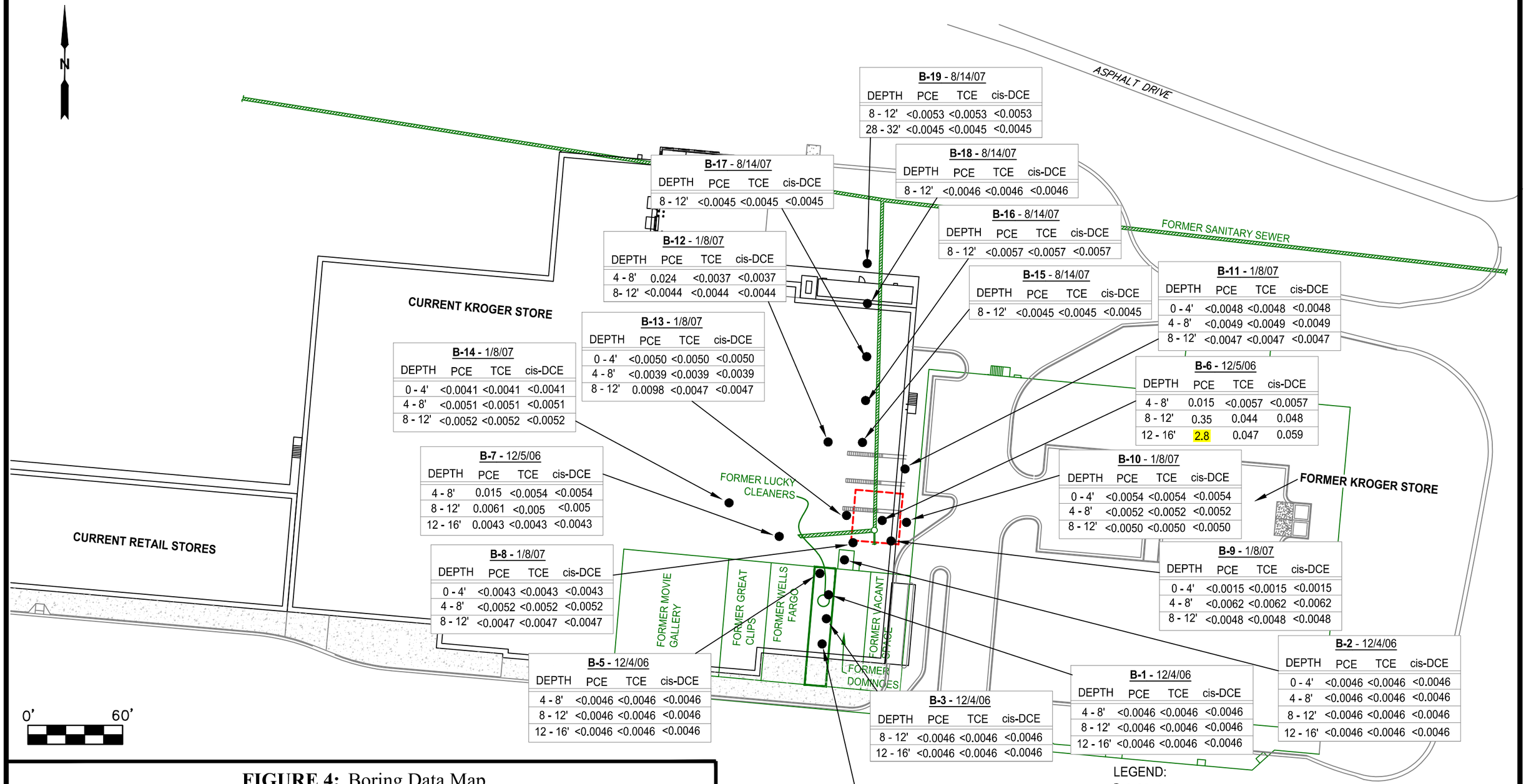
LEGEND:

- Directional Monitoring Well Location
- Monitoring Well Location
- Soil Boring Location

Former footprint of store outlined in green

Approximate area of soil excavation outlined in red

0’ 60’



B-19 - 8/14/07

DEPTH	PCE	TCE	cis-DCE
8 - 12'	<0.0053	<0.0053	<0.0053
28 - 32'	<0.0045	<0.0045	<0.0045

B-18 - 8/14/07

DEPTH	PCE	TCE	cis-DCE
8 - 12'	<0.0046	<0.0046	<0.0046

B-17 - 8/14/07

DEPTH	PCE	TCE	cis-DCE
8 - 12'	<0.0045	<0.0045	<0.0045

B-16 - 8/14/07

DEPTH	PCE	TCE	cis-DCE
8 - 12'	<0.0057	<0.0057	<0.0057

B-12 - 1/8/07

DEPTH	PCE	TCE	cis-DCE
4 - 8'	0.024	<0.0037	<0.0037
8- 12'	<0.0044	<0.0044	<0.0044

B-15 - 8/14/07

DEPTH	PCE	TCE	cis-DCE
8 - 12'	<0.0045	<0.0045	<0.0045

B-11 - 1/8/07

DEPTH	PCE	TCE	cis-DCE
0 - 4'	<0.0048	<0.0048	<0.0048
4 - 8'	<0.0049	<0.0049	<0.0049
8 - 12'	<0.0047	<0.0047	<0.0047

B-13 - 1/8/07

DEPTH	PCE	TCE	cis-DCE
0 - 4'	<0.0050	<0.0050	<0.0050
4 - 8'	<0.0039	<0.0039	<0.0039
8 - 12'	0.0098	<0.0047	<0.0047

B-14 - 1/8/07

DEPTH	PCE	TCE	cis-DCE
0 - 4'	<0.0041	<0.0041	<0.0041
4 - 8'	<0.0051	<0.0051	<0.0051
8 - 12'	<0.0052	<0.0052	<0.0052

B-6 - 12/5/06

DEPTH	PCE	TCE	cis-DCE
4 - 8'	0.015	<0.0057	<0.0057
8 - 12'	0.35	0.044	0.048
12 - 16'	2.8	0.047	0.059

B-7 - 12/5/06

DEPTH	PCE	TCE	cis-DCE
4 - 8'	0.015	<0.0054	<0.0054
8 - 12'	0.0061	<0.005	<0.005
12 - 16'	0.0043	<0.0043	<0.0043

B-10 - 1/8/07

DEPTH	PCE	TCE	cis-DCE
0 - 4'	<0.0054	<0.0054	<0.0054
4 - 8'	<0.0052	<0.0052	<0.0052
8 - 12'	<0.0050	<0.0050	<0.0050

B-8 - 1/8/07

DEPTH	PCE	TCE	cis-DCE
0 - 4'	<0.0043	<0.0043	<0.0043
4 - 8'	<0.0052	<0.0052	<0.0052
8 - 12'	<0.0047	<0.0047	<0.0047

B-9 - 1/8/07

DEPTH	PCE	TCE	cis-DCE
0 - 4'	<0.0015	<0.0015	<0.0015
4 - 8'	<0.0062	<0.0062	<0.0062
8 - 12'	<0.0048	<0.0048	<0.0048

B-5 - 12/4/06

DEPTH	PCE	TCE	cis-DCE
4 - 8'	<0.0046	<0.0046	<0.0046
8 - 12'	<0.0046	<0.0046	<0.0046
12 - 16'	<0.0046	<0.0046	<0.0046

B-2 - 12/4/06

DEPTH	PCE	TCE	cis-DCE
0 - 4'	<0.0046	<0.0046	<0.0046
4 - 8'	<0.0046	<0.0046	<0.0046
8 - 12'	<0.0046	<0.0046	<0.0046
12 - 16'	<0.0046	<0.0046	<0.0046

B-1 - 12/4/06

DEPTH	PCE	TCE	cis-DCE
4 - 8'	<0.0046	<0.0046	<0.0046
8 - 12'	<0.0046	<0.0046	<0.0046
12 - 16'	<0.0046	<0.0046	<0.0046

B-3 - 12/4/06

DEPTH	PCE	TCE	cis-DCE
8 - 12'	<0.0046	<0.0046	<0.0046
12 - 16'	<0.0046	<0.0046	<0.0046

B-4 - 12/4/06

DEPTH	PCE	TCE	cis-DCE
4 - 8'	<0.0046	<0.0046	<0.0046
8 - 12'	<0.0046	<0.0046	<0.0046
12 - 16'	<0.0046	<0.0046	<0.0046

LEGEND:

- Soil Boring Location
  PCE: Tetrachloroethene
  TCE: Trichloroethene
  cis-DCE: cis-1,2-Dichloroethene
  All analytical results are presented in milligrams per kilogram (mg/kg)
- Former footprint of store outlined in green
- Approximate area of soil excavation outlined in red

2.8 Highlighted concentrations exceeded the risk reduction standard

FIGURE 4: Boring Data Map

CONTOUR ENGINEERING

Project No. E18KRO:07

5/1/2018

The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

N

CURRENT KROGER STORE

NW Corner - 8/13/07 - 8/15/07

ID #	DEPTH	PCE	TCE	DCE
L1 S5	4'	<0.0042	<0.0042	<0.0042
L2 S10	6'	<0.0041	<0.0041	<0.0041
L3 S14	8'	<0.0047	<0.0047	<0.0047
L4 S17	10'	<0.0036	<0.0036	<0.0036
L5 S25	12'	<0.006	<0.006	<0.006
L6 S33	14'	<0.006	<0.006	<0.006
L7 S35	16'	<0.006	<0.006	<0.006

N Sidewall - 8/15/07 - 8/22/07

ID #	DEPTH	PCE	TCE	DCE
W6	10'	0.0099	<0.0026	<0.0026
W2	16'	1.17	0.017	<0.006

NE Corner - 8/13/07 - 8/15/07

ID #	DEPTH	PCE	TCE	DCE
L1 S4	4'	0.021	<0.0037	<0.0037
L2 S9	6'	<0.0042	<0.0042	<0.0042
L3 S13	8'	<0.0042	<0.0042	<0.0042
L4 S16	10'	0.0051	<0.0045	<0.0045
L5 S24	12'	<0.006	<0.006	<0.006
L6 S32	14'	<0.006	<0.006	<0.006
L7 S34	16'	<0.006	<0.006	<0.006

B6 - 12/5/06

DEPTH	PCE	TCE	DCE
4- 8'	0.015	<0.0057	<0.0057
8-12'	0.35	0.044	0.048
12-16'	2.8	0.047	0.059

L8 S37 - 8/15/07

DEPTH	PCE	TCE	DCE
16.5'	0.244	0.051	0.012

W4 - 8/15/07

DEPTH	PCE	TCE	DCE
16'	0.277	<0.006	0.031

NW Sidewall - 8/15/07 - 8/22/07

ID #	DEPTH	PCE	TCE	DCE
W5	10'	<0.0025	<0.0025	<0.0025
W3	16'	0.713	0.023	<0.006

Next to MH - 8/13/07 - 8/15/07

ID #	DEPTH	PCE	TCE	DCE
L1 S3	4'	<0.0053	<0.0053	<0.0053
L2 S8	6'	0.026	<0.0040	<0.00409
L3 S15	8'	<0.0051	<0.0051	<0.0051
L4 S20	10'	0.048	<0.0044	<0.0044
L5 S23	12'	0.006	<0.006	<0.006
L6 S28	14'	<0.006	<0.006	<0.006
L7 S29	16'	<0.006	<0.006	<0.006

SW Corner - 8/13/07 - 8/15/07

ID #	DEPTH	PCE	TCE	DCE
L1 S2	4'	<0.0032	<0.0032	<0.0032
L2 S6	6'	0.0044	<0.0035	<0.0035
L3 S12	8'	<0.0043	<0.0043	<0.0043
L4 S19	10'	0.0057	<0.0038	<0.0038
L5 S22	12'	<0.0039	<0.0039	<0.0039
L6 S27	14'	<0.006	<0.006	<0.006
L7 S31	16'	0.011	<0.006	<0.006

W1 - 8/14/07

DEPTH	PCE	TCE	DCE
16'	0.284	0.017	<0.006

L8 S36 - 8/15/07

DEPTH	PCE	TCE	DCE
16.5'	0.808	0.057	0.039

Corner 1 - 8/22/07

DEPTH	PCE	TCE	DCE
10'	<0.0018	<0.0018	<0.0018

SE Corner - 8/13/07 - 8/15/07

ID #	DEPTH	PCE	TCE	DCE
L1 S1	4'	<0.0042	<0.0042	<0.0042
L2 S7	6'	0.014	<0.0039	<0.0039
L3 S11	8'	0.067	<0.0025	<0.0025
L4 S18	10'	0.14	<0.0033	<0.0033
L5 S21	12'	1.3	0.019	0.023
L6 S26	14'	2.06	0.028	<0.006
L7 S30	16'	0.041	<0.006	<0.006

FORMER MOVIE GALLERY

FORMER GREAT CLIPS

FORMER WELLS FARGO

FORMER LUCKY CLEANERS

FORMER DOMINOES

FORMER VACANT SPACE/PAGE

0' 20'

LEGEND:

- Confirmation Sample Location
- Epic Soil Boring Location
- PCE: Tetrachloroethene
- TCE: Trichloroethene
- DCE: Dichloroethene
- All analytical results are presented in milligrams per kilogram (mg/kg)
- 1.3 Highlighted concentrations exceeded the risk reduction standard
- Former footprint of store outlined in green
- Approximate area of soil excavation outlined in red

FIGURE 5: Soil Excavation Area and Confirmation Sample Locations

CONTOUR ENGINEERING

Project No. E18KRO:07

5/1/2018

The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

N

FORMER SANITARY SEWER

ASPHALT DRIVE

MW-12 2/20/13

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
30'	<0.0037	<0.0037	<0.0037	<0.074

MW-15 9/2/15

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
27'	<0.0037	<0.0037	<0.0037	<0.070

MW-9 8/26/11

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
10'	<0.0062	<0.0062	<0.0062	<0.12

MW-8 8/26/11

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
5'	<0.0051	<0.0051	<0.0051	0.22

MW15 MW9

MW-14 2/9/13

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
30'	<0.0037	<0.0037	<0.0037	<0.074

MW-13 2/20/13

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
30'	<0.0039	<0.0039	<0.0039	<0.18

MW-4 8/25/11

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
15'	<0.0058	<0.0058	<0.0058	<0.12

MW-3 9/18/08

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
7-10.5'	<0.0053	<0.0053	<0.0053	<0.11

MW-2 9/17/18

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
10.5-14'	0.041	<0.0062	<0.0062	<0.12

MW-10 2/19/13

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
15'	<0.0033	<0.0033	<0.0033	<0.067

CURRENT KROGER STORE

FORMER KROGER STORE

MW-5 8/25/11

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
15'	<0.0058	<0.0058	<0.0058	<0.12

MW-1 9/17/08

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
10.5-14'	<0.0049	<0.0049	<0.0049	<0.097

FORMER LUCKY CLEANERS

FORMER MOVIE GALLERY

FORMER GREAT CLIPS

FORMER WELLS FARGO

FORMER DOMINOES

FORMER VACANT SPACE

CURRENT RETAIL STORES

MW-7 8/26/11

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
15'	<0.0046	<0.0046	<0.0046	<0.091

MW-11 2/19/13

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
15'	<0.0031	<0.0031	<0.0031	<0.063

0' 60'

MW-6 8/25/11

DEPTH	PCE	TCE	cis-1,2-DCE	Acetone
15'	<0.0052	<0.0052	<0.0052	<0.10

LEGEND:

- Directional Monitoring Well Location
- Monitoring Well Location

PCE: Tetrachloroethene
TCE: Trichloroethene
cis-DCE: cis-1,2-Dichloroethene
All analytical results are presented in milligrams per kilogram (mg/kg)
Former footprint of store outlined in green
Approximate area of soil excavation outlined in red

FIGURE 6: Monitoring Well Soil Quality Map

CONTOUR ENGINEERING

Project No. E18KRO:07

5/1/2018

The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

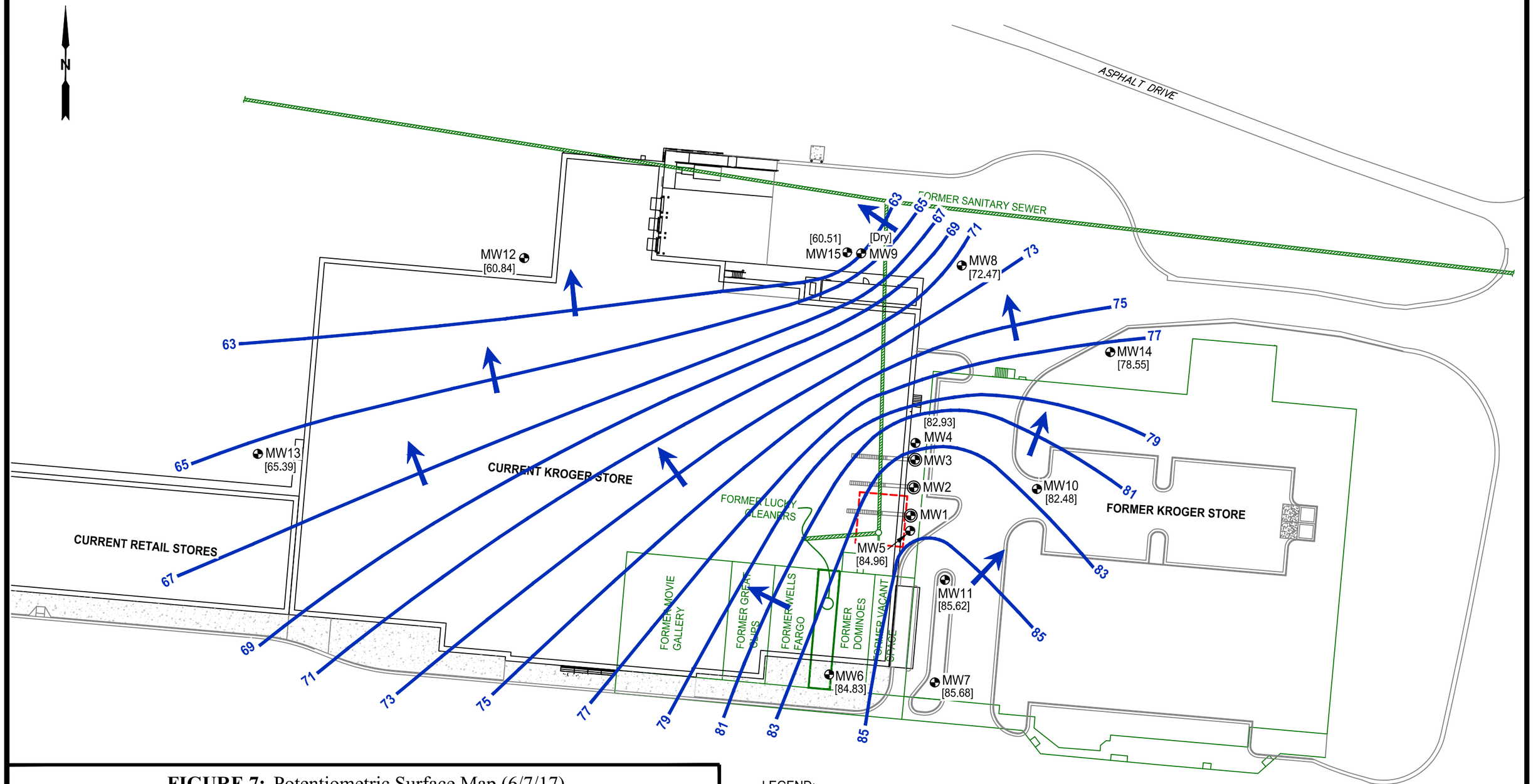


FIGURE 7: Potentiometric Surface Map (6/7/17)

CONTOUR ENGINEERING

Project No. E18KRO:07

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The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
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LEGEND:

- Groundwater Flow Direction
- [76.89] Calculated Potentiometric Surface Elevation
- Directional Monitoring Well Location
- Monitoring Well Location
- Former footprint of store outlined in green
- Approximate area of soil excavation outlined in red

0’ 60’

N

ASPHALT DRIVE

FORMER SANITARY SEWER

MW-12 - 6/7/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

MW-15 - 6/7/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

MW-9 - 6/7/17
Not Sampled-Dry

MW-8 - 6/7/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

MW-13 - 6/7/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

MW-1 - 6/8/17
PCE: 283
TCE: 144
cis-1,2-DCE: 24.0
trans-1,2-DCE: 12.0

MW-2 - 6/8/17
PCE: 73.5
TCE: 64.3
cis-1,2-DCE: 11.6
trans-1,2-DCE: 11.7

MW-3 - 6/8/17
PCE: 4.2
TCE: 16.7
cis-1,2-DCE: 5.4
trans-1,2-DCE: 11.7

MW-4 - 6/8/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

MW-14 - 6/7/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

FORMER LUCKY CLEANERS

FORMER KROGER STORE

MW-10 - 6/7/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

CURRENT RETAIL STORES

CURRENT KROGER STORE

MW-5 - 6/8/17
PCE: 48.7
TCE: 9.9
cis-1,2-DCE: 1.0
trans-1,2-DCE: <1.0

FORMER MOVIE GALLERY

FORMER GREAT CLIPS

FORMER WELLS FARGO

FORMER DOMINOES

FORMER VACANT SPACE

MW-11 - 6/8/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

MW-6 - 6/8/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

MW-7 - 6/8/17
PCE: <1.0
TCE: <1.0
cis-1,2-DCE: <1.0
trans-1,2-DCE: <1.0

0’ 60’

LEGEND:
- Directional Monitoring Well Location
- Monitoring Well Location
- PCE: Tetrachloroethene
- TCE: Trichloroethene
- cis-DCE: cis-1,2-Dichloroethene
- trans-1,2-DCE: trans-1,2-Dichloroethene
- Approximate extent of VOC plume exceeding RRS
- Former footprint of store outlined in green
- Approximate area of soil excavation outlined in red
- All analytical results are presented in micrograms per liter (µg/L)

FIGURE 8: Groundwater Quality Map (6/7/17 & 6/8/17)

CONTOUR ENGINEERING

Project No. E18KRO:07

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The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

N

ASPHALT DRIVE

FORMER SANITARY SEWER

SVI-5
2-Butanone = 6.2
Acetone = 36
Carbon Disulfide= 4.7
Freon-113 = 10
n-Hexane = 7.0
Propene = 100
Tetrachloroethene = 230
Toluene = 4.5

SVI-3
Freon-113 = 18
Tetrachloroethene = 200

SVI-2
Acetone = 30
Freon-113 = 33
Methylene Chloride = 170
n-Hexane = 27
Tetrachloroethene = 2700
Toluene = 11
Trichlorofluoromethane = 9.0

CURRENT KROGER STORE

SVI-4
2-Butanone = 7.7
Acetone = 19
Carbon Disulfide= 3.1
Chloroform = 6.6
Propene = 7.2
Tetrachloroethene = 950
Toluene = 3.8
Trichlorofluoromethane = 7.3

FORMER KROGER STORE

CURRENT RETAIL STORES

FORMER LUCKY CLEANERS

SVI-1
2-Butanone = 8.0
Acetone = 48
Carbon Disulfide= 9.0
Propene = 4.5
Tetrachloroethene = 950
Tetrahydrofuran = 9.3

FORMER MOVIE GALLERY

FORMER GREAT CLIPS

FORMER WELLS FARGO

FORMER DOMINOES

FORMER VACANT SPACE

FIGURE 9: Vapor Implant Locations

CONTOUR ENGINEERING

Project No. E18KRO:07

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The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

LEGEND:

▲ Vapor Implant Location
Results reported in micrograms per cubic meter ($\mu g/m^3$)

Former footprint of store outlined in green
Approximate area of soil excavation outlined in red

0’ 60’

FACING WEST

A (SOUTH) — A' (NORTH)

KROGER BUILDING
(HEIGHT N.T.S.)

EXCAVATION AREA

MW-7 MW-11 MW-5 MW-1 MW-2 MW-3 MW-4 MW-15

Elevation (Feet)

120 110 100 90 80 70 60 50

SM/ML CL SC CH

Y: 1’ = 10’

X: 1” = 20’

VERTICAL EXAGGERATION = 2X

FIGURE 10: North / South Cross Section

CONTOUR ENGINEERING

Project No. E18KRO:07

5/1/2018

The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

GRAPHIC SCALE: 10’ 0’ 20’

LEGEND:

WELL SCREEN

WATER TABLE (JUNE 7, 2017)

N.T.S NOT TO SCALE

SM/ML SILTY SAND / SANDY SILT
SC CLAYEY SAND
CL CLAY
CH FAT CLAY

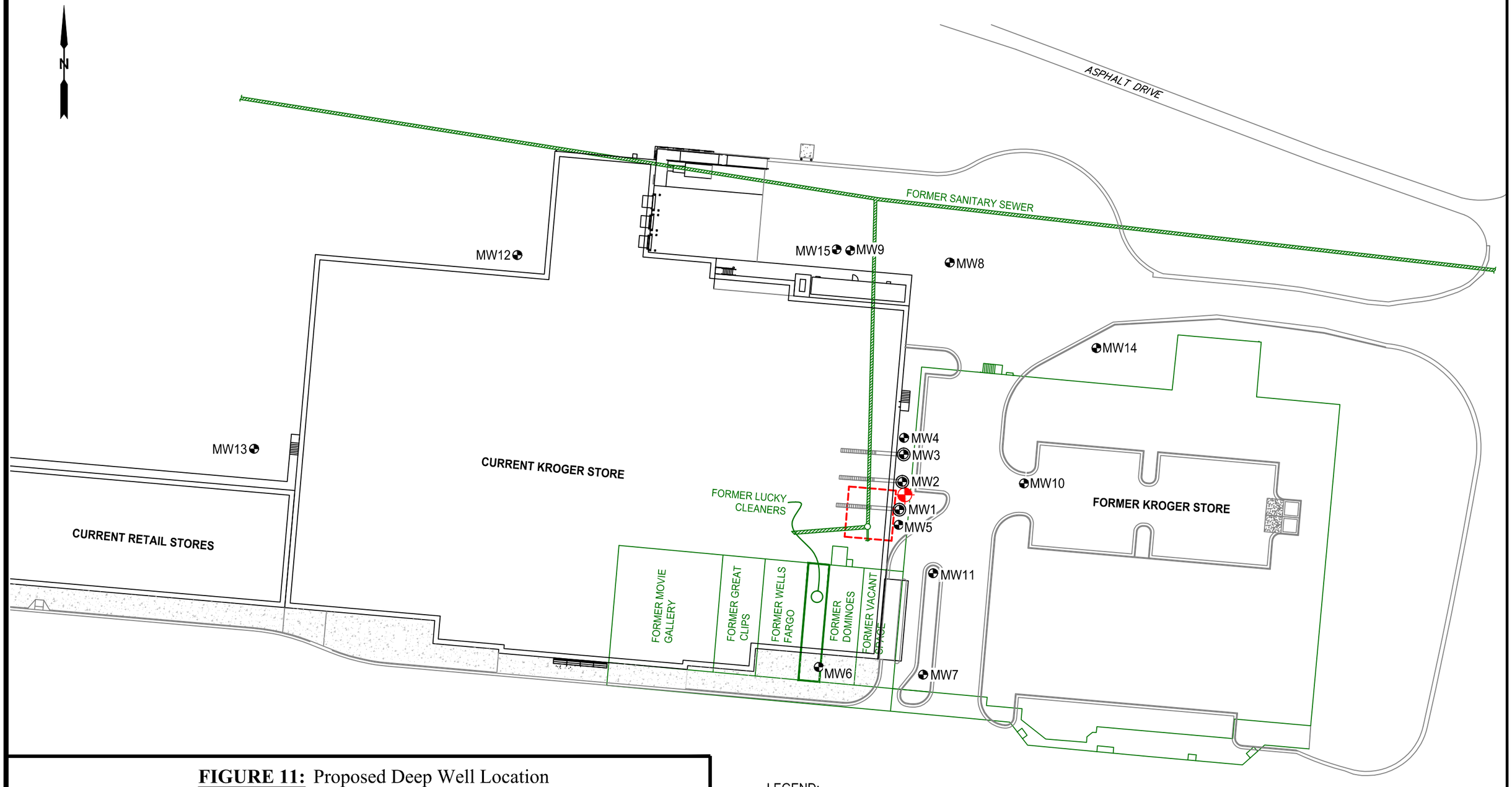

FIGURE 11: Proposed Deep Well Location

CONTOUR ENGINEERING

Project No. E18KRO:07

5/1/2018

The Kroger Company
Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

LEGEND:

- Directional Monitoring Well Location
- Monitoring Well Location
- Proposed Deep Well Location

Former footprint of store outlined in green

Approximate area of soil excavation outlined in red

0’ 60’

Tables

Former Lucky Cleaners

2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 1: SOIL BORING ANALYTICAL DATA SUMMARY

(VOCs)

Sample Location	Date Sampled	Concentrations are in mg/kg				Total VOCs
		PCE	TCE	cis-1,2-DCE	Acetone	
B-1 @ 4-8'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.091	BRL
B-1 @ 8-12'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.097	BRL
B-1 @ 12-16'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.088	BRL
B-2 @ 0-4'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.100	BRL
B-2 @ 4-8'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.110	BRL
B-2 @ 8-12'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.097	BRL
B-2 @ 12-16'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.085	BRL
B-3 @ 8-12'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.092	BRL
B-3 @ 12-16'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.083	BRL
B-4 @ 4-8'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.084	BRL
B-4 @ 8-12'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.097	BRL
B-4 @ 12-16'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.100	BRL
B-5 @ 4-8'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.092	BRL
B-5 @ 8-12'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.098	BRL
B-5 @ 12-16'	12/4/2006	<0.0046	<0.0046	<0.0046	<0.089	BRL
B-6 @ 4-8'	12/5/2006	**0.015**	<0.0057	<0.0057	<0.100	0.015
B-6 @ 8-12'	12/5/2006	**0.35**	**0.044**	**0.048**	<0.120	0.442
B-6 @ 12-16'	12/5/2006	**2.8**	**0.047**	**0.049**	<0.120	2.906
B-7 @ 4-8'	12/5/2006	**0.015**	<0.0054	<0.0054	<0.110	0.015
B-7 @ 8-12'	12/5/2006	**0.0061**	<0.005	<0.005	<0.100	0.0061
B-7 @ 12-16'	12/5/2006	**0.0043**	<0.0043	<0.0043	<0.085	0.0043
Storage Sand	12/5/2006	<0.0048	<0.0048	<0.0048	<0.095	BRL
B-8 @ 0-4'	1/8/2007	<0.0043	<0.0043	<0.0043	<0.087	BRL
B-8 @ 4-8'	1/8/2007	<0.0052	<0.0052	<0.0052	<0.100	BRL
B-8 @ 8-12'	1/8/2007	<0.0047	<0.0047	<0.0047	<0.093	BRL
B-9 @ 0-4'	1/8/2007	<0.0015	<0.0015	<0.0015	<0.100	BRL
B-9 @ 4-8'	1/8/2007	<0.0062	<0.0062	<0.0062	<0.120	BRL
B-9 @ 8-12'	1/8/2007	<0.0048	<0.0048	<0.0048	<0.095	BRL
B-10 @ 0-4'	1/8/2007	<0.0054	<0.0054	<0.0054	<0.110	BRL
B-10 @ 4-8'	1/8/2007	<0.0052	<0.0052	<0.0052	<0.100	BRL
B-10 @ 8-12'	1/8/2007	<0.0050	<0.0050	<0.0050	<0.100	BRL
B-11 @ 0-4'	1/8/2007	<0.0048	<0.0048	<0.0048	<0.096	BRL
B-11 @ 4-8'	1/8/2007	<0.0049	<0.0049	<0.0049	<0.098	BRL
B-11 @ 8-12'	1/8/2007	<0.0047	<0.0047	<0.0047	<0.095	BRL
B-12 @ 4-8'	1/8/2007	**0.024**	<0.0037	<0.0037	<0.074	0.024
B-12 @ 8-12'	1/8/2007	<0.0044	<0.0044	<0.0044	<0.089	BRL
B-13 @ 0-4'	1/8/2007	<0.0050	<0.0050	<0.0050	<0.100	BRL
B-13 @ 4-8'	1/8/2007	<0.0039	<0.0039	<0.0039	<0.078	BRL
B-13 @ 8-12'	1/8/2007	**0.0098**	<0.0047	<0.0047	<0.095	0.0098
B-14 @ 0-4'	1/8/2007	<0.0041	<0.0041	<0.0041	<0.083	BRL
B-14 @ 4-8'	1/8/2007	<0.0051	<0.0051	<0.0051	<0.100	BRL
B-14 @ 8-12'	1/8/2007	<0.0052	<0.0052	<0.0052	<0.100	BRL
B-15 @ 8-12'	8/14/2007	<0.0045	<0.0045	<0.0045	<0.090	BRL
B-16 @ 8-12'	8/14/2007	<0.0057	<0.0057	<0.0057	<0.110	BRL

Former Lucky Cleaners

2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 1: SOIL BORING ANALYTICAL DATA SUMMARY

(VOCs)

Sample Location	Date Sampled	Concentrations are in mg/kg				Total VOCs
		PCE	TCE	cis-1,2-DCE	Acetone	
B-17 @ 8-12'	8/14/2007	<0.0045	<0.0045	<0.0045	<0.091	BRL
B-18 @ 8-12'	8/14/2007	<0.0046	<0.0046	<0.0046	<0.093	BRL
B-19 @ 8-12'	8/14/2007	<0.0053	<0.0053	<0.0053	<0.110	BRL
B-19 @ 28-32'	8/14/2007	<0.0045	<0.0045	<0.0045	<0.090	BRL
MW-1 @ 10.5-14'	09/17/08	<0.0049	<0.0049	<0.0049	<0.097	BRL
MW-2 @ 10.5-14'	09/17/08	**0.041**	<0.0062	<0.0062	<0.12	0.041
MW-3 @ 7-10.5'	09/18/08	<0.0053	<0.0053	<0.0053	<0.11	BRL
MW-4 @ 15'	08/25/11	<0.0058	<0.0058	<0.0058	<0.12	BRL
MW-5 @ 15'	08/25/11	<0.0058	<0.0058	<0.0058	<0.12	BRL
MW-6 @ 15'	08/25/11	<0.0052	<0.0052	<0.0052	<0.10	BRL
MW-7 @ 15'	08/26/11	<0.0046	<0.0046	<0.0046	<0.091	BRL
MW-8 @ 5'	08/26/11	<0.0051	<0.0051	<0.0051	**0.22**	0.22
MW-9 @ 10'	08/26/11	<0.0062	<0.0062	<0.0062	<0.12	BRL
MW-10 @ 15'	02/19/13	<0.0033	<0.0033	<0.0033	<0.067	BRL
MW-11 @ 15'	02/19/13	<0.0031	<0.0031	<0.0031	<0.063	BRL
MW-12 @ 30'	02/20/13	<0.0037	<0.0037	<0.0037	<0.074	BRL
MW-13 @ 30'	02/20/13	<0.0039	<0.0039	<0.0039	**0.18**	0.18
MW-14 @ 30'	02/19/13	<0.0037	<0.0037	<0.0037	<0.074	BRL
MW-15 @ 27'	09/02/15	<0.0035	<0.0035	<0.0035	<0.070	BRL
Type 1 RRS		0.50	0.50	7	400	NA
Type 3 RRS		0.50	0.50	7	400	NA

Notes:

HSI = Hazardous Site Inventory
VOCs = volatile organic compounds
mg/kg = millgrams per kilogram
PCE = tetrachloroethene
TCE = trichloroethene
DCE = dichloroethene
BRL = below reporting limits
NA = not applicable
RRS = Risk Reduction Standard
Bold indicates compound detected above the laboratory reporting limit
Bold and shading indicates exceedance of RRS

Former Lucky Cleaners

2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 2: SOIL EXCAVATION SAMPLE ANALYTICAL DATA SUMMARY

(VOCs)

Sample Location	Sample Depth	Date Sampled	Concentrations are in mg/kg					Total VOCs
			PCE	TCE	cis-1,2-DCE	1,4-DCB	Acetone	
L1 S1	4	8/13/2007	<0.0042	<0.0042	<0.0042	<0.0042	<0.084	BRL
L1 S2	4	8/13/2007	<0.0032	<0.0032	<0.0032	<0.0032	**0.21**	0.21
L1 S3	4	8/13/2007	<0.0053	<0.0053	<0.0053	<0.0053	<0.110	BRL
L1 S4	4	8/13/2007	**0.021**	<0.0037	<0.0037	<0.0037	<0.075	0.021
L1 S5	4	8/13/2007	<0.0042	<0.0042	<0.0042	<0.0042	<0.085	BRL
L2 S6	6	8/14/2007	**0.0044**	<0.0035	<0.0035	<0.0035	<0.070	0.0044
L2 S7	6	8/14/2007	**0.014**	<0.0039	<0.0039	<0.0039	<0.078	0.014
L2 S8	6	8/14/2007	**0.026**	<0.0040	<0.0040	<0.0040	<0.079	0.026
L2 S9	6	8/14/2007	<0.0042	<0.0042	<0.0042	<0.0042	<0.084	BRL
L2 S10	6	8/14/2007	<0.0041	<0.0041	<0.0041	<0.0041	<0.082	BRL
L3 S11	8	8/14/2007	**0.067**	<0.0025	<0.0025	<0.0025	**0.052**	0.119
L3 S12	8	8/14/2007	<0.0043	<0.0043	<0.0043	<0.0043	<0.086	BRL
L3 S13	8	8/14/2007	<0.0042	<0.0042	<0.0042	<0.0042	<0.085	BRL
L3 S14	8	8/14/2007	<0.0047	<0.0047	<0.0047	<0.0047	<0.095	BRL
L3 S15	8	8/14/2007	<0.0051	<0.0051	<0.0051	<0.0051	<0.100	BRL
L4 S16	10	8/14/2007	**0.0051**	<0.0045	<0.0045	<0.0045	<0.090	0.0051
L4 S17	10	8/14/2007	<0.0036	<0.0036	<0.0036	<0.0036	<0.073	BRL
L4 S18	10	8/14/2007	**0.14**	<0.0033	<0.0033	<0.0033	<0.066	0.14
L4 S19	10	8/14/2007	**0.0057**	<0.0038	<0.0038	<0.0038	<0.076	0.0057
L4 S20	10	8/14/2007	**0.048**	<0.0044	<0.0044	<0.0044	<0.088	0.048
L5 S21	12	8/14/2007	**1.3**	**0.019**	**0.023**	<0.0041	<0.083	1.342
L5 S22	12	8/14/2007	<0.0039	<0.0039	<0.0039	<0.0039	<0.078	BRL
L5 S23	12	8/14/2007	**0.006**	<0.006	<0.006	<0.006	<0.120	0.006
L5 S24	12	8/14/2007	<0.006	<0.006	<0.006	<0.006	<0.120	BRL
L5 S25	12	8/14/2007	<0.006	<0.006	<0.006	<0.006	<0.120	BRL
L6 S26	14	8/14/2007	**2.06**	**0.028**	<0.006	**0.010**	<0.120	2.088
L6 S27	14	8/14/2007	<0.006	<0.006	<0.006	<0.006	<0.120	BRL
L6 S28	14	8/14/2007	<0.006	<0.006	<0.006	<0.006	<0.120	BRL
L6 S32	14	8/14/2007	<0.006	<0.006	<0.006	<0.006	<0.120	BRL
L6 S33	14	8/14/2007	<0.006	<0.006	<0.006	<0.006	<0.120	BRL
L7 S29	16	8/14/2007	<0.006	<0.006	<0.006	<0.006	<0.120	BRL
L7 S30	16	8/14/2007	**0.041**	<0.006	<0.006	<0.006	<0.120	0.041
L7 S31	16	8/14/2007	**0.011**	<0.006	<0.006	<0.006	<0.120	0.011
L7 S34	16	8/14/2007	<0.006	<0.006	<0.006	<0.006	<0.120	BRL
L7 S35	16	8/14/2007	<0.006	<0.006	<0.006	<0.006	<0.120	BRL
L8 S36	16.5	8/15/2007	**0.808**	**0.057**	**0.039**	<0.006	<0.120	0.904
L8 S37	16.5	8/15/2007	**0.244**	**0.051**	**0.012**	<0.006	<0.120	0.307
W1	16	8/15/2007	**0.284**	**0.057**	**0.007**	<0.006	<0.120	0.348
W2	16	8/15/2007	**1.17**	**0.017**	<0.006	<0.006	<0.120	1.187
W3	16	8/15/2007	**0.713**	**0.023**	<0.006	<0.006	<0.120	0.736
W4	16	8/15/2007	**0.277**	<0.006	**0.031**	<0.006	<0.120	0.308
W5	10	8/22/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.049	BRL
W6	10	8/22/2007	**0.0099**	<0.0026	<0.0026	<0.0026	<0.051	0.0099
Corner 1	10	8/22/2007	<0.0018	<0.0018	<0.0018	<0.0018	<0.037	BRL

Former Lucky Cleaners

2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 2: SOIL EXCAVATION SAMPLE ANALYTICAL DATA SUMMARY

(VOCs)

Sample Location	Sample Depth	Date Sampled	Concentrations are in mg/kg					Total VOCs
			PCE	TCE	cis-1,2-DCE	1,4-DCB	Acetone	
Type 1 RRS			0.50	0.50	7	7.50	400	NA
Type 3 RRS			0.50	0.50	7	7.50	400	NA

Notes:

HSI = Hazardous Site Inventory
VOCs = volatile organic compounds
mg/kg = millgrams per kilogram
PCE = tetrachloroethene
TCE = trichloroethene
DCE = dichloroethene
DCB = dichlorobenzene
BRL = below reporting limits
NA = not applicable
RRS = Risk Reduction Standard
Bold indicates compound detected above the laboratory reporting limit
Bold and shading indicates exceedance of RRS

Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 3: GROUNDWATER ANALYTICAL DATA SUMMARY
(VOCs)

Sample Location	Date Sampled	Concentrations are in µg/L															Total VOCs
		PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Acetone	Chloroform	Toluene	Bromochloromethane**	Bromomethane**	MEK**	Chloromethane**	Methylene Chloride**	1,1,2,2-TCA**	MTBE	
MW-1	09/22/08	14	<5.0	<5.0	<5.0	<5.0	<2.0	<50	5.1	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	19.1
	09/12/11	1,900	500	27	8.8	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	2,436
	02/21/13	820	260	18	8.5	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	1,107
	05/15/13	560	180	16	8.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	764
	08/02/13	190	78	8.3	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	276
	11/08/13	820*	290*	26	28	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	54
	11/8/13 (Dup)	890	320	29	30	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	1,269
	10/08/14	760	300	31	25	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	1,116
	09/03/15	710	330	40	31	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	1,111
	03/30/16	87.4	42.0	9.2	2.6	<1.0	3.6	218	<1.0	<1.0	1.3	8.2	12.1	51.7	7.6	1.2	<1.0	445
	10/13/16	168	71.8	13.4	4.4	<2.0	<2.0	57.4	<2.0	<2.0	<2.0	8.5	<10	3.7	<4.0	<2.0	<2.0	327
	10/13/2016 (Dup)	149	62.6	12.4	4.4	<2.0	<2.0	55.2	<2.0	<2.0	<2.0	12.1	<10	4.0	<4.0	<2.0	<2.0	300
	06/08/17	283	144	24.0	12.0	<2.5	<2.5	<62.5	<2.5	<2.5	<2.5	<5.0	<12.5	<2.5	<5.0	<2.5	<2.5	463
MW-2	09/22/08	11	<5.0	<5.0	<5.0	<5.0	<2.0	<50	15	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	26
	09/12/11	140	160	25	15	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	340
	02/21/13	170	150	27	11	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	358
	05/15/13	170	170	20	13	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	373
	08/02/13	450	300	25	16	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	791
	11/08/13	150	140	22	17	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	329
	10/08/14	250	220	23	17	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	510
	10/8/14 (Dup)	270	220	24	17	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	531
	09/03/15	240	200	25	22	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	487
	03/30/16	4.9	3.4	1.3	<1.0	<1.0	<1.0	174	<1.0	<1.0	<1.0	6.2	9.7	58.0	<2.0	<1.0	<1.0	257.5
	3/30/2016 (Dup)	5.1	3.3	1.4	<1.0	<1.0	<1.0	168	<1.0	<1.0	<1.0	6.2	9.1	56.6	<2.0	<1.0	<1.0	249.7
	10/14/16	61.5	53.4	11.6	5.6	<1.0	<1.0	75.6	<1.0	<1.0	<1.0	4.0	<5.0	19.6	<2.0	<1.0	<1.0	231.3
	06/08/17	73.5	64.3	11.6	11.7	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	2.5	<2.0	<1.0	<1.0	163.6
MW-3	09/22/08	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	09/12/11	<5.0	5.9	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	5.9
	02/21/13	<5.0	9.1	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	9.1
	05/15/13	<5.0	11	5.5	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	16.5
	08/02/13	7.8	12	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	19.8
	11/08/13	<5.0	7.6	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	7.6
	10/08/14	<5.0	20	5.4	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	25.4
	09/03/15	<5.0	26	8.4	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	34.4
	03/30/16	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	70.7	<1.0	<1.0	<1.0	2.9	<5.0	27.6	<2.0	<1.0	<1.0	103.8
	10/14/16	3.4	19.3	7.3	1.7	1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	5.0	<2.0	<1.0	<1.0	37.7
	06/08/17	4.2	16.7	5.4	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	26.3

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TABLE 3: GROUNDWATER ANALYTICAL DATA SUMMARY
(VOCs)

Sample Location	Date Sampled	Concentrations are in µg/L															Total VOCs
		PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Acetone	Chloroform	Toluene	Bromochloromethane**	Bromomethane**	MEK**	Chloromethane**	Methylene Chloride**	1,1,2,2-TCA**	MTBE	
MW-4	09/12/11	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	02/21/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	05/15/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	08/02/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	11/08/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	10/07/14	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	09/02/15	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	03/30/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/14/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	06/08/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
MW-5	09/12/11	**45**	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	45
	02/21/13	**53**	**9.7**	**5.1**	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	67.8
	05/15/13	**50**	**6.4**	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	56.4
	08/02/13	**13**	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	13
	11/08/13	**42**	**8.1**	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	50.1
	10/08/14	**110**	**15**	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	125
	09/03/15	**55**	**9.7**	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	64.7
	9/3/2015 (Dup)	**58**	**8.8**	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	66.8
	03/30/16	**40.3**	**9.9**	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	**9.7**	<2.0	<1.0	<1.0	59.9
	10/13/16	**51.5**	**10.4**	<1.0	**1.0**	<1.0	<1.0	<25	<1.0	<1.0	<1.0	**3.3**	<5.0	<1.0	<2.0	<1.0	<1.0	66.2
	06/08/17	**48.7**	**9.9**	**1.0**	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	59.6
MW-6	09/12/11	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	02/21/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	05/15/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	08/01/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	11/07/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	10/07/14	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	09/02/15	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	03/29/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/12/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	06/07/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL

Former Lucky Cleaners
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TABLE 3: GROUNDWATER ANALYTICAL DATA SUMMARY
(VOCs)

Sample Location	Date Sampled	Concentrations are in µg/L															Total VOCs
		PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Acetone	Chloroform	Toluene	Bromochloromethane**	Bromomethane**	MEK**	Chloromethane**	Methylene Chloride**	1,1,2,2-TCA**	MTBE	
MW-7	09/12/11	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	02/21/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	05/15/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	08/01/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	11/08/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	10/07/14	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	09/02/15	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	03/29/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/12/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	06/08/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
MW-8	09/12/11	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	02/21/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	05/15/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	08/01/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	11/08/13	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	10/07/14	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	09/02/15	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	03/30/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/12/16	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	06/07/17	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
MW-9	09/12/11	Not Sampled - Dry																NA
	02/21/13	Not Sampled - Dry																NA
	05/15/13	Not Sampled - Dry																NA
	08/01/13	Not Sampled - Dry																NA
	11/07/13	Not Sampled - Dry																NA
	10/07/14	Not Sampled - Dry																NA
	09/02/15	Not Sampled - Dry																NA
	03/29/16	Not Sampled - Dry																NA
	10/12/16	Not Sampled - Dry																NA
	06/07/17	Not Sampled - Dry																NA

Former Lucky Cleaners
2801 Washington Road
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TABLE 3: GROUNDWATER ANALYTICAL DATA SUMMARY
(VOCs)

Sample Location	Date Sampled	Concentrations are in µg/L															Total VOCs
		PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Acetone	Chloroform	Toluene	Bromochloromethane**	Bromomethane**	MEK**	Chloromethane**	Methylene Chloride**	1,1,2,2-TCA**	MTBE	
MW-10	2/21/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	5/15/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	8/1/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	11/8/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	10/7/2014	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	9/2/2015	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	3/29/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/12/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	6/7/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
MW-11	2/21/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	5/15/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	8/1/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	11/8/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	10/7/2014	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	9/2/2015	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	3/29/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/12/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	6/8/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
MW-12	2/21/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	5/14/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	8/1/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	11/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	10/7/2014	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	9/2/2015	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	3/29/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/13/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	6/7/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
MW-13	2/21/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	5/14/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	8/1/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	**8.6**	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	8.6
	11/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	10/7/2014	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	9/2/2015	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	3/29/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/13/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	6/7/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL

Former Lucky Cleaners

2801 Washington Road

Augusta, Richmond County, Georgia

HSI #10845

TABLE 3: GROUNDWATER ANALYTICAL DATA SUMMARY

(VOCs)

Sample Location	Date Sampled	Concentrations are in µg/L															Total VOCs
		PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Acetone	Chloroform	Toluene	Bromochloromethane**	Bromomethane**	MEK**	Chloromethane**	Methylene Chloride**	1,1,2,2-TCA**	MTBE	
MW-14	2/21/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	5/14/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	8/1/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	11/7/2013	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	10/7/2014	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	9/2/2015	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	3/30/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/13/2016	**4.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	4.0
	2/9/2017	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<100	<2.0	<2.0	<10	<10	<100	<10	<5.0	<2.0	<10	BRL
	6/7/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
MW-15	9/3/2015	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<50	<5.0	<5.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<5.0	BRL
	3/29/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	10/13/2016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
	6/7/2017	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<2.0	<5.0	<1.0	<2.0	<1.0	<1.0	BRL
Type 3 RRS		**5**	**5**	**70**	**100**	**7**	**2**	**4000**	**80**	**1000**	**NE**	**10**	**2000**	**3**	**5**	**0.2*****| **NE**	**NA**

Notes:

HSI = Hazardous Site Inventory

VOCs = volatile organic compounds

µg/L = micrograms per liter

PCE = tetrachloroethene

TCE = trichloroethene

DCE = dichloroethene

MEK = methyl ethyl ketone (2-butanone)

TCA = tetrachloroethane

MTBE = methyl tertiary-butyl ether

BRL = below reporting limits

NA = not applicable

RRS = Risk Reduction Standard

NE = not established

(DUP) = duplicate sample

Bold indicates compound detected above the laboratory reporting limit

Bold and shading indicates exceedance of RRS

* sample was "E" qualified indicating estimated value over linear calibration range

** Samples collected before the 2016 sampling event are assumed to be below the March 2016 laboratory reporting limit

*** The health-based drinking water criterion is lower than the lowest currently achievable and available detection limit. Therefore, the detection limit or background will be the Type 1/Type 3 RRS.

Former Lucky Cleaners

2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 4: GROUNDWATER ELEVATIONS

Well Number	Date Measured	Elevation (ft)		Depth of Screen (ft)	Water Depth (ft)	GW Elev. (ft)
		Ground	TOC			
* MW-1	9/22/2008	100.00	99.70	14-35	15.62	84.08
	9/12/2011	100.00	99.70	14-35	14.92	84.78
	2/21/2013	100.00	99.70	14-35	14.92	84.78
	5/14/2013	100.00	99.70	14-35	13.49	86.21
	8/1/2013	100.00	99.70	14-35	13.43	86.27
	11/7/2013	100.00	99.70	14-35	13.39	86.31
	10/7/2014	100.00	99.70	14-35	14.01	85.69
	9/2/2015	100.00	99.70	14-35	14.16	85.54
	3/29/2016	100.00	99.70	14-35	13.04	86.66
	10/12/2016	100.00	99.70	14-35	19.39	80.31
	6/7/2017	100.00	99.70	14-35	17.22	82.48
* MW-2	9/22/2008	100.12	99.62	14-35	16.10	83.52
	9/12/2011	100.12	99.62	14-35	17.36	82.26
	2/21/2013	100.12	99.62	14-35	16.62	83.00
	5/14/2013	100.12	99.62	14-35	15.56	84.06
	8/1/2013	100.12	99.62	14-35	13.98	85.64
	11/7/2013	100.12	99.62	14-35	15.11	84.51
	10/7/2014	100.12	99.62	14-35	15.29	84.33
	9/2/2015	100.12	99.62	14-35	15.51	84.11
	3/29/2016	100.12	99.62	14-35	13.47	86.15
	10/12/2016	100.12	99.62	14-35	19.94	79.68
	6/7/2017	100.12	99.62	14-35	18.38	81.24
* MW-3	9/22/2008	99.77	99.82	14-35	18.07	81.75
	9/12/2011	99.77	99.82	14-35	17.36	82.46
	2/21/2013	99.77	99.82	14-35	16.75	83.07
	5/14/2013	99.77	99.82	14-35	15.85	83.97
	8/1/2013	99.77	99.82	14-35	14.64	85.18
	11/7/2013	99.77	99.82	14-35	15.51	84.31
	10/7/2014	99.77	99.82	14-35	15.90	83.92
	9/2/2015	99.77	99.82	14-35	16.09	83.73
	3/29/2016	99.77	99.82	14-35	14.91	84.91
	10/12/2016	99.77	99.82	14-35	21.43	78.39
	6/7/2017	99.77	99.82	14-35	20.12	79.70

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TABLE 4: GROUNDWATER ELEVATIONS

Well Number	Date Measured	Elevation (ft)		Depth of Screen (ft)	Water Depth (ft)	GW Elev. (ft)
		Ground	TOC			
MW-4	9/12/2011	99.11	98.95	10-30	18.36	80.59
	2/21/2013	99.11	98.95	10-30	18.40	80.55
	5/14/2013	99.11	98.95	10-30	17.34	81.61
	8/1/2013	99.11	98.95	10-30	15.80	83.15
	11/7/2013	99.11	98.95	10-30	16.74	82.21
	10/7/2014	99.11	98.95	10-30	17.18	81.77
	9/2/2015	99.11	98.95	10-30	17.26	81.69
	3/29/2016	99.11	98.95	10-30	16.51	82.44
	10/12/2016	99.11	98.95	10-30	16.48	82.47
	6/7/2017	99.11	98.95	10-30	16.02	82.93
MW-5	9/12/2011	100.40	100.21	10-30	17.85	82.36
	2/21/2013	100.40	100.21	10-30	17.69	82.52
	5/14/2013	100.40	100.21	10-30	16.06	84.15
	8/1/2013	100.40	100.21	10-30	14.15	86.06
	11/7/2013	100.40	100.21	10-30	15.99	84.22
	10/7/2014	100.40	100.21	10-30	16.73	83.48
	9/2/2015	100.40	100.21	10-30	16.90	83.31
	3/29/2016	100.40	100.21	10-30	15.13	85.08
	10/12/2016	100.40	100.21	10-30	16.26	83.95
	6/7/2017	100.40	100.21	10-30	15.25	84.96
MW-6	9/12/2011	101.07	100.94	10-30	18.83	82.11
	2/21/2013	101.07	100.94	10-30	18.64	82.30
	5/14/2013	101.07	100.94	10-30	16.88	84.06
	8/1/2013	101.07	100.94	10-30	16.07	84.87
	11/7/2013	101.07	100.94	10-30	16.81	84.13
	10/7/2014	101.07	100.94	10-30	17.71	83.23
	9/2/2015	101.07	100.94	10-30	17.88	83.06
	3/29/2016	101.07	100.94	10-30	15.96	84.98
	10/12/2016	101.07	100.94	10-30	17.22	83.72
	6/7/2017	101.07	100.94	10-30	16.11	84.83

Former Lucky Cleaners

2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 4: GROUNDWATER ELEVATIONS

Well Number	Date Measured	Elevation (ft)		Depth of Screen (ft)	Water Depth (ft)	GW Elev. (ft)
		Ground	TOC			
MW-7	9/12/2011	101.10	100.91	10-30	18.05	82.86
	2/21/2013	101.10	100.91	10-30	18.06	82.85
	5/14/2013	101.10	100.91	10-30	16.20	84.71
	8/1/2013	101.10	100.91	10-30	13.90	87.01
	11/7/2013	101.10	100.91	10-30	16.20	84.71
	10/7/2014	101.10	100.91	10-30	17.00	83.91
	9/2/2015	101.10	100.91	10-30	17.23	83.68
	3/29/2016	101.10	100.91	10-30	15.18	85.73
	10/12/2016	101.10	100.91	10-30	16.55	84.36
	6/7/2017	101.10	100.91	10-30	15.23	85.68
MW-8	9/12/2011	94.97	94.78	10-30	25.35	69.43
	9/21/2013	94.97	94.78	10-30	24.80	69.98
	5/14/2013	94.97	94.78	10-30	23.29	71.49
	8/1/2013	94.97	94.78	10-30	21.25	73.53
	11/7/2013	94.97	94.78	10-30	23.82	70.96
	10/7/2014	94.97	94.78	10-30	24.77	70.01
	9/2/2015	94.97	94.78	10-30	23.72	71.06
	3/29/2016	94.97	94.78	10-30	21.96	72.82
	10/12/2016	94.97	94.78	10-30	23.12	71.66
	6/7/2017	94.97	94.78	10-30	22.31	72.47
MW-9	9/12/2011	95.73	95.65	10-30	Dry	Dry
	2/21/2013	95.73	95.65	10-30	Dry	Dry
	5/14/2013	95.73	95.65	10-30	Dry	Dry
	8/1/2013	95.73	95.65	10-30	Dry	Dry
	11/7/2013	95.73	95.65	10-30	Dry	Dry
	10/7/2014	95.73	95.65	10-30	Dry	Dry
	9/2/2015	95.73	95.65	10-30	Dry	Dry
	3/29/2016	95.73	95.65	10-30	Dry	Dry
	10/12/2016	95.73	95.65	10-30	Dry	Dry
	6/7/2017	95.73	95.65	10-30	Dry	Dry

Former Lucky Cleaners

2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 4: GROUNDWATER ELEVATIONS

Well Number	Date Measured	Elevation (ft)		Depth of Screen (ft)	Water Depth (ft)	GW Elev. (ft)
		Ground	TOC			
MW-10	2/21/2013	98.94	98.30	10-30	19.40**	78.90
	5/14/2013	98.94	98.30	10-30	17.39	80.91
	8/1/2013	98.94	98.30	10-30	16.95	81.35
	11/7/2013	98.94	98.30	10-30	16.84	81.46
	10/7/2014	98.94	98.30	10-30	17.09	81.21
	9/2/2015	98.94	98.30	10-30	16.87	81.43
	3/29/2016	98.94	98.30	10-30	16.33	81.97
	10/12/2016	98.94	98.30	10-30	16.47	81.83
	6/7/2017	98.94	98.30	10-30	15.82	82.48
MW-11	2/21/2013	100.79	100.42	10-30	17.37**	83.05
	5/14/2013	100.79	100.42	10-30	15.63	84.79
	8/1/2013	100.79	100.42	10-30	14.43	85.99
	11/7/2013	100.79	100.42	10-30	15.55	84.87
	10/7/2014	100.79	100.42	10-30	16.25	84.17
	9/2/2015	100.79	100.42	10-30	16.48	83.94
	3/29/2016	100.79	100.42	10-30	14.64	85.78
	10/12/2016	100.79	100.42	10-30	15.88	84.54
	6/7/2017	100.79	100.42	10-30	14.80	85.62
MW-12	2/21/2013	97.66	97.09	15-50	36.48**	60.61
	5/14/2013	97.66	97.09	15-50	35.34	61.75
	8/1/2013	97.66	97.09	15-50	34.12	62.97
	11/7/2013	97.66	97.09	15-50	36.31	60.78
	10/7/2014	97.66	97.09	15-50	36.70	60.39
	9/2/2015	97.66	97.09	15-50	37.11	59.98
	3/29/2016	97.66	97.09	15-50	35.58	61.51
	10/12/2016	97.66	97.09	15-50	37.00	60.09
	6/7/2017	97.66	97.09	15-50	36.25	60.84
MW-13	2/21/2013	99.14	98.67	15-50	34.86**	63.81
	5/14/2013	99.14	98.67	15-50	32.58	66.09
	8/1/2013	99.14	98.67	15-50	28.47	70.20
	11/7/2013	99.14	98.67	15-50	31.94	66.73
	10/7/2014	99.14	98.67	15-50	32.55	66.12
	9/2/2015	99.14	98.67	15-50	35.55	63.12
	3/29/2016	99.14	98.67	15-50	32.03	66.64
	10/12/2016	99.14	98.67	15-50	33.78	64.89
	6/7/2017	99.14	98.67	15-50	33.28	65.39

Former Lucky Cleaners

2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 4: GROUNDWATER ELEVATIONS

Well Number	Date Measured	Elevation (ft)		Depth of Screen (ft)	Water Depth (ft)	GW Elev. (ft)
		Ground	TOC			
MW-14	2/21/2013	98.05	97.75	10-45	34.33**	63.42
	5/14/2013	98.05	97.75	10-45	21.06	76.69
	8/1/2013	98.05	97.75	10-45	19.20	78.55
	11/7/2013	98.05	97.75	10-45	21.03	76.72
	10/7/2014	98.05	97.75	10-45	22.00	75.75
	9/2/2015	98.05	97.75	10-45	22.15	75.60
	3/29/2016	98.05	97.75	10-45	19.05	78.70
	10/12/2016	98.05	97.75	10-45	21.52	76.23
	6/7/2017	98.05	97.75	10-45	19.20	78.55
MW-15	9/3/2015	95.76	95.67	10-42	36.11	59.56
	3/29/2016	95.76	95.67	10-42	34.94	60.73
	10/12/2016	95.76	95.67	10-42	34.95	60.72
	6/7/2017	95.76	95.67	10-42	35.16	60.51

Notes:

HSI = Hazardous Site Inventory

* MW-1, MW-2, and MW-3 are directional monitoring wells and the depth to water shown in the table above is the calculated

** The water table not equilibrated 1 day following well installation.

ft = feet

TOC = top of casing

GW Elev. = groundwater elevation

Former Lucky Cleaners

2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 5: GROUNDWATER ANALYTICAL DATA SUMMARY

(RCRA Metals)

Sample Location	Date Sampled	Concentrations are in µg/L							
		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
MW-1	10/13/16	BRL	**6.7**	**3.1**	**6.2**	BRL	BRL	BRL	BRL
	10/13/16 (Dup)	BRL	**5.7**	**3.1**	**6.9**	**5.9**	BRL	BRL	BRL
	06/08/17	BRL	**16.0**	**1.8**	**5.1**	**5.3**	BRL	BRL	BRL
MW-2	10/13/16	BRL	BRL	**4.5**	**8.9**	**7.8**	BRL	BRL	BRL
	06/08/17	BRL	**8.5**	**2.2**	**11.0**	**9.2**	BRL	BRL	BRL
MW-3	10/13/16	BRL	**22.1**	**1.4**	**10.7**	BRL	BRL	BRL	BRL
	06/08/17	BRL	**24.8**	BRL	**11.9**	BRL	BRL	BRL	BRL
MW-4	10/13/16	BRL	**110**	BRL	BRL	BRL	BRL	BRL	BRL
	06/08/17	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	10/13/16	BRL	**17.8**	BRL	BRL	BRL	BRL	BRL	BRL
	06/08/17	BRL	**13.8**	BRL	BRL	BRL	BRL	BRL	BRL
MW-6	10/13/16	BRL	**196**	BRL	BRL	BRL	BRL	BRL	BRL
	06/07/17	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	10/13/16	BRL	**193**	BRL	BRL	BRL	BRL	BRL	BRL
	06/08/17	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	10/13/16	BRL	**139**	BRL	BRL	BRL	BRL	BRL	BRL
	06/07/17	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	10/13/16	Not Sampled - Dry							
	06/07/17	Not Sampled - Dry							
MW-10	10/13/16	BRL	**158**	BRL	BRL	BRL	BRL	BRL	BRL
	06/07/17	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	10/13/16	BRL	**54.0**	BRL	BRL	BRL	BRL	BRL	BRL
	06/08/17	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-12	10/13/16	**13.1**	**1,050**	BRL	**162**	**35.9**	BRL	BRL	BRL
	06/07/17	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	10/13/16	BRL	**197**	BRL	BRL	BRL	BRL	BRL	BRL
	06/07/17	NA	NA	NA	NA	NA	NA	NA	NA
MW-14	10/13/16	BRL	**7.4**	BRL	BRL	BRL	BRL	BRL	BRL
	06/07/17	NA	NA	NA	NA	NA	NA	NA	NA
MW-15	10/13/16	BRL	**362**	BRL	BRL	BRL	BRL	BRL	BRL
	06/07/17	NA	NA	NA	NA	NA	NA	NA	NA
Type 3 RRS		10	2,000	5	100	15	50	100	2

Notes:

HSI = Hazardous Site Inventory

RCRA = Resource Conservation and Recovery Act

RRS = risk reduction standard

µg/L - micrograms per liter

(Dup) = duplicate sample

Bold indicates compound detected above the laboratory reporting limit

Bold and shading indicates exceedance of RRS

BRL - below laboratory reporting limits

NA - not analyzed

Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845

TABLE 6: SOIL VAPOR ANALYTICAL DATA SUMMARY
(VOCs)

Sample Location	Depth (ft)	Date Sampled	VOCs											
			2-Butanone (µg/m^3)	Acetone (µg/m^3)	Carbon Disulfide (µg/m^3)	Chloroform (µg/m^3)	Freon-113 (µg/m^3)	Methylene Chloride (µg/m^3)	n-Hexane (µg/m^3)	Propene (µg/m^3)	Tetrachloroethene (µg/m^3)	Tetrahydrofuran (µg/m^3)	Toluene (µg/m^3)	Trichlorofluoromethane (µg/m^3)
SVI-1	2	10/26/2017	8.0	48	9.0	<4.9	<7.7	<3.5	<3.5	4.5	950	9.3	<3.8	<5.6
SVI-2	2	10/26/2017	<2.9	30	<3.1	<4.9	33	170	27	<1.7	2700	<2.9	11	9.0
SVI-3	2	10/26/2017	<2.9	<12	<3.1	<4.9	18	<3.5	<3.5	<1.7	200	<2.9	<3.8	<5.6
SVI-4	2	10/26/2017	7.7	19	3.1	6.6	<7.7	<3.5	<3.5	7.2	950	<2.9	3.8	7.3
SVI-5	2	10/26/2017	6.2	36	4.7	<4.9	10.0	<3.5	7.0	100	230	<2.9	4.5	<5.6

Notes:
VOC = Volatile Organic Compound
ft = feet
µg/m^3 = micrograms per cubic meter

Appendix A
VRP Application and Checklist

Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	The Kroger Co.				
CONTACT PERSON/TITLE	Scott Siebert				
ADDRESS	2175 Parklake Drive NE, Atlanta, GA 30345				
PHONE	770-496-7489	**FAX**		**E-MAIL**	scott.siebert@kroger.com

GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Greg Rowell			**GA PE/PG NUMBER**	1450
COMPANY	Contour Engineering, LLC				
ADDRESS	1955 Vaughn Road, Suite 101, Kennesaw, GA 30144				
PHONE	770-794-0266	**FAX**		**E-MAIL**	growell@contoureng.com

APPLICANT'S CERTIFICATION

In order to be considered a qualifying property for the VRP:

(1) The property must have a release of regulated substances into the environment;
(2) The property shall not be:
- (A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.
- (B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or
- (C) A facility required to have a permit under Code Section 12-8-66.

(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.
(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.

In order to be considered a participant under the VRP:
- (1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.
- (2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.

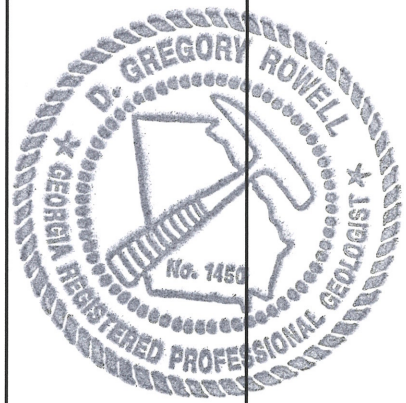
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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.

I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.

APPLICANT'S SIGNATURE			
APPLICANT'S NAME/TITLE (PRINT)	SCOTT SIEBERT ASST CONSTRUCTION MANAGER	**DATE**	8/17/18

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)			
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)			
HSI Number	10845	Date HSI Site listed	10/13/2006
HSI Facility Name	Former Lucky Cleaners	NAICS CODE	
PROPERTY INFORMATION			
TAX PARCEL ID	013-0-013-00-0	PROPERTY SIZE (ACRES)	20.05
PROPERTY ADDRESS	2801 Washington Road		
CITY	Augusta	COUNTY	Richmond
STATE	GA	ZIPCODE	30909
LATITUDE (decimal format)	33.511592°	LONGITUDE (decimal format)	-82.028989°
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	The Kroger Co.	PHONE #	770-496-7489
MAILING ADDRESS	2175 Parklake Drive NE		
CITY	Atlanta	STATE/ZIPCODE	GA 30345

ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	**$5,000 APPLICATION FEE** IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES. (PLEASE LIST CHECK DATE AND CHECK NUMBER IN COLUMN TITLED "LOCATION IN VRP." PLEASE DO NOT INCLUDE A SCANNED COPY OF CHECK IN ELECTRONIC COPY OF APPLICATION.)	**Check Date: 8/13/2018** **Check # 744**	
2.	**WARRANTY DEED(S)** FOR QUALIFYING PROPERTY.	**Appendix B**	
3.	**TAX PLAT** OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	**Appendix B**	
4.	**ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES** OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	**Attached**	
5.	The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a **PROJECTED MILESTONE SCHEDULE** for investigation and remediation of the site, and after enrollment as a participant, must update the schedule in each semi-	**Section 3** **Figures 4 through 10** **Tables 1 through 6** **Appendix G**	

	annual status report to the director describing implementation of the plan during the preceding period. A Gantt chart format is preferred for the milestone schedule. The following four (4) generic milestones are required in all initial plans with the results reported in the participant's next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant's plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:		
5.a.	Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;		
5.b.	Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;		
5.c.	Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and		
5.d.	Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.		
6.	**SIGNED AND SEALED PE/PG CERTIFICATION** AND SUPPORTING DOCUMENTATION: "I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances. Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division. 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." David Gregory Rowell / PG001450 Printed Name and GA PE/PG Number 8/21/2018 Date Signature and Stamp		

ADDITIONAL QUALIFYING PROPERTIES (COPY THIS PAGE AS NEEDED)

PROPERTY INFORMATION			
TAX PARCEL ID	013-0-013-01-0	PROPERTY SIZE (ACRES)	0.83
PROPERTY ADDRESS	2805 Washington Road		
CITY	Augusta	COUNTY	Richmond
STATE	GA	ZIPCODE	30909
LATITUDE (decimal format)	33.510460°	LONGITUDE (decimal format)	-82.028667°
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	NIKI Washington Road, LLC	PHONE #	
MAILING ADDRESS	11260 El Camino Real, Suite 220		
CITY	San Diego	STATE/ZIPCODE	CA 92130-2676

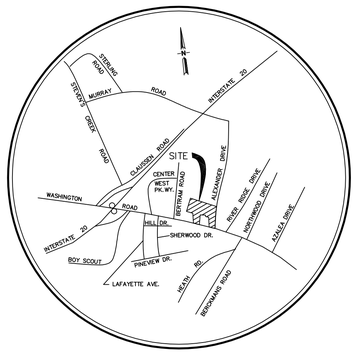
PROPERTY INFORMATION			
TAX PARCEL ID	013-0-013-02-0	PROPERTY SIZE (ACRES)	0.83
PROPERTY ADDRESS	2807 Washington Road		
CITY	Augusta	COUNTY	Richmond
STATE	GA	ZIPCODE	30909
LATITUDE (decimal format)	33.510756°	LONGITUDE (decimal format)	-82.030182°
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	NIKI Washington Road, LLC	PHONE #	
MAILING ADDRESS	11260 El Camino Real, Suite 220		
CITY	San Diego	STATE/ZIPCODE	CA 92130-2676

PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	

Appendix B
Legal Description, Warranty Deed, and Tax Plat

LEGAL DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND SITUATE, LYING AND BEING IN RICHMOND COUNTY, GEORGIA AT THE INTERSECTION OF THE NORTHERN RIGHT-OF-WAY OF WASHINGTON ROAD WITH THE WESTERN RIGHT-OF-WAY OF ALEXANDER DRIVE BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: **POINT OF BEGINNING** AT A CONCRETE MONUMENT FOUND AT THE POINT OF INTERSECTION REFERRED TO ABOVE AND RUNNING THENCE ALONG THE NORTHERN RIGHT-OF-WAY OF WASHINGTON ROAD IN A WESTERLY DIRECTION ALONG A CURVE TO THE LEFT, THE RADIUS OF WHICH IS 2921.79 FEET, A DISTANCE OF 123.32 FEET TO A #5 REBAR FOUND (SAID CURVE SUBTENDED BY A CHORD RUNNING NORTH 79'20'50" WEST, 123.31 FEET); THENCE, TURN AND RUN NORTH 07'35'24" EAST A DISTANCE OF 135.22 FEET TO A CONCRETE MONUMENT FOUND; THENCE, TURN AND RUN NORTH 80'35'09" WEST A DISTANCE OF 149.97 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN NORTH 07'25'57" EAST A DISTANCE OF 50.40 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN NORTH 80'30'08" WEST A DISTANCE OF 59.77 FEET TO A 2" OPEN TOP IRON FOUND; THENCE, TURN AND RUN NORTH 80'26'03" WEST A DISTANCE OF 149.65 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN SOUTH 07'49'09" WEST A DISTANCE OF 185.27 FEET TO A #5 REBAR FOUND ON THE NORTHERN RIGHT-OF-WAY OF WASHINGTON ROAD; THENCE, TURN AND RUN ALONG THE NORTHERN RIGHT-OF-WAY OF WASHINGTON ROAD NORTH 80'22'02" WEST A DISTANCE OF 161.88 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN NORTH 08'10'48" EAST A DISTANCE OF 185.42 FEET TO A #5 REBAR FOUND; THENCE, TURN AND RUN NORTH 80'28'38" WEST A DISTANCE OF 109.43 FEET TO A #5 REBAR FOUND; THENCE, TURN AND RUN NORTH 07'16'42" EAST A DISTANCE OF 374.76 FEET TO A #5 REBAR FOUND; THENCE, TURN AND RUN NORTH 80'41'26" WEST A DISTANCE OF 143.72 FEET TO A 1" CRIMP TOP IRON FOUND; THENCE, TURN AND RUN NORTH 79'57'18" WEST A DISTANCE OF 242.31 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN NORTH 88'27'35" WEST A DISTANCE OF 11.43 FEET TO A 1" OPEN TOP I RON FOUND; THENCE, TURN AND RUN NORTH 25'09'29" EAST A DISTANCE OF 184.81 FEET TO A #5 REBAR FOUND; THENCE, TURN AND RUN NORTH 25'16'48" EAST A DISTANCE OF 327.40 FEET TO A 2" OPEN TOP IRON FOUND; THENCE, TURN AND RUN SOUTH 66'09'30" EAST A DISTANCE OF 299.45 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN SOUTH 65'57'00" EAST A DISTANCE OF 893.01 FEET TO A #5 REBAR SET ON THE WESTERN RIGHT-OF-WAY OF ALEXANDER DRIVE; THENCE, TURN AND RUN SOUTH 25'14'40" WEST ALONG THE WESTERN RIGHT-OF-WAY OF ALEXANDER DRIVE A DISTANCE OF 58.59 FEET TO A POINT ON A MANHOLE; THENCE, CONTINUE IN A SOUTHERLY DIRECTION ALONG SAID RIGHT-OF-WAY ALONG A CURVE TO THE LEFT, THE RADIUS OF WHICH IS 607.96 FEET, A DISTANCE OF 214.99 FEET, TO A #4 REBAR FOUND (SAID CURVE SUBTENDED BY A CHORD RUNNING SOUTH 14'55'42" WEST, 213.87 FEET); THENCE, CONTINUE ALONG SAID RIGHT-OF-WAY SOUTH 05'10'37" WEST A DISTANCE OF 104.36 FEET TO A CONCRETE MONUMENT FOUND; THENCE, CONTINUE IN A SOUTHERLY DIRECTION ALONG SAID RIGHT-OF-WAY ALONG A CURVE TO THE RIGHT, THE RADIUS OF WHICH IS 431.73 FEET, A DISTANCE OF 125.91 FEET TO A CONCRETE MONUMENT FOUND (SAID CURVE SUBTENDED BY A CHORD RUNNING SOUTH 13'25'55" WEST, 125.46 FEET); THENCE, TURN AND RUN SOUTH 21'42'31" WEST ALONG SAID RIGHT-OF-WAY A DISTANCE OF 236.58 FEET TO A CONCRETE MONUMENT FOUND; THENCE TURN AND RUN SOUTH 61'14'57" WEST ALONG SAID RIGHT-OF-WAY 45.19 FEET TO THE NORTHERN RIGHT-OF-WAY OF WASHINGTON ROAD AND THE **POINT OF BEGINNING**.



LOCATION MAP

N.T.S.

ALTA/ASCM

BOUNDARY, TOPOGRAPHIC & UTILITY MAP

KROGER STORE #368

SHOWING PROPERTY KNOWN AS 2801 WASHINGTON ROAD IN THE 90th G.M.D.

AUGUSTA, RICHMOND COUNTY, GEORGIA

SCALE : 1" = 30'

APRIL 7, 2006

REV: 6-29-06

REV: 9-8-06

30' 15' 0 30' 60'

SCALE IN FEET

PREPARED BY

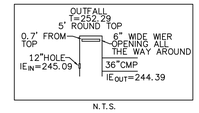
Cranston, Robertson & Whitehurst, P.C.

452 ELLIS STREET – P.O. DRAWER 2546 – AUGUSTA, GEORGIA 30903

ENGINEERS – PLANNERS – SURVEYORS

PH: (706) 722-1588 – WEBSITE: www.crwpc.com – FACSIMILE: (706) 722-8379

DETAIL "A"



N.T.S.

LEGEND

℄	CENTERLINE
CLF	CHAIN LINK FENCE
CMF	CONCRETE MONUMENT FOUND
CMP	CORRUGATED METAL PIPE
CNF	CORNER NOT FOUND
CNS	CORNER NOT SET
CP	CLAY PIPE
CTF	CRIMP TOP IRON FOUND
DWT	DOUBLE WING TRAP
FH	FIRE HYDRANT
HC	HANDICAP
HW	HEAD WALL
LP	LIGHT POLE
STMH	STROM MAN HOLE
SSHM	SANITARY SEWER MAN HOLE
OHU	OVER HEAD UTILITY
OTF	OPEN TOP IRON FOUND
PP	POWER POLE
RBF	REBAR FOUND
RBS	REBAR SET
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
–G–	GAS
–P–	UNDERGROUND POWER
–T–	UNDERGROUND TELEPHONE
–W–	WATER LINE
BP	BRACE POLE
GT	GRATE TRAP
CR	CONCRETE RAMP
CS	CONCRETE SLAB
CO	CLEAN OUT
GUY	GUIDE WIRE
GM	GAS METER
GP	GUARD POST
WM	WATER METER
WV	WATER VALVE
MP	METAL POLE
SN	SIGN
DS	DOWNSPOUT

	SLOPE EASEMENT	
LINE	DIRECTION	DISTANCE
58–59	N09°43'55"E	8.66'
59–60	S80°40'15"E	8.88'
60–61	N09°19'50"E	15.72'
61–62	N47°13'00"E	31.15'
62–63	N21°37'00"E	156.11'
63–64	N33°55'30"E	43.87'
64–65	N14°30'50"E	139.86'
65–66	N05°00'10"E	265.00'
66–54	N77°24'05"E	32.12'

TECHNICAL DATA

DATE OF SURVEY – MARCH, 2006
EQUIPMENT USED – THEODOLITE & E.D.M.
ANGULAR PRECISION – 5" PER ANGLE
FIELD PRECISION– 1 in 38,000
PLAT CLOSURE – 1 IN 817,467
COMPASS ADJUSTMENT

PROJECT DATA

PROJECT ACRES: 18.77
BUILDING AREA: 51,704
SHOP AREA: 11,969

ZONING DATA

PROPERTY ZONED B-1 & B-2

BENCHMARK:

CRW POINT #3
TOP NAIL SET
ELEV=291.96
(NAVD, 1988)

REFERENCES:

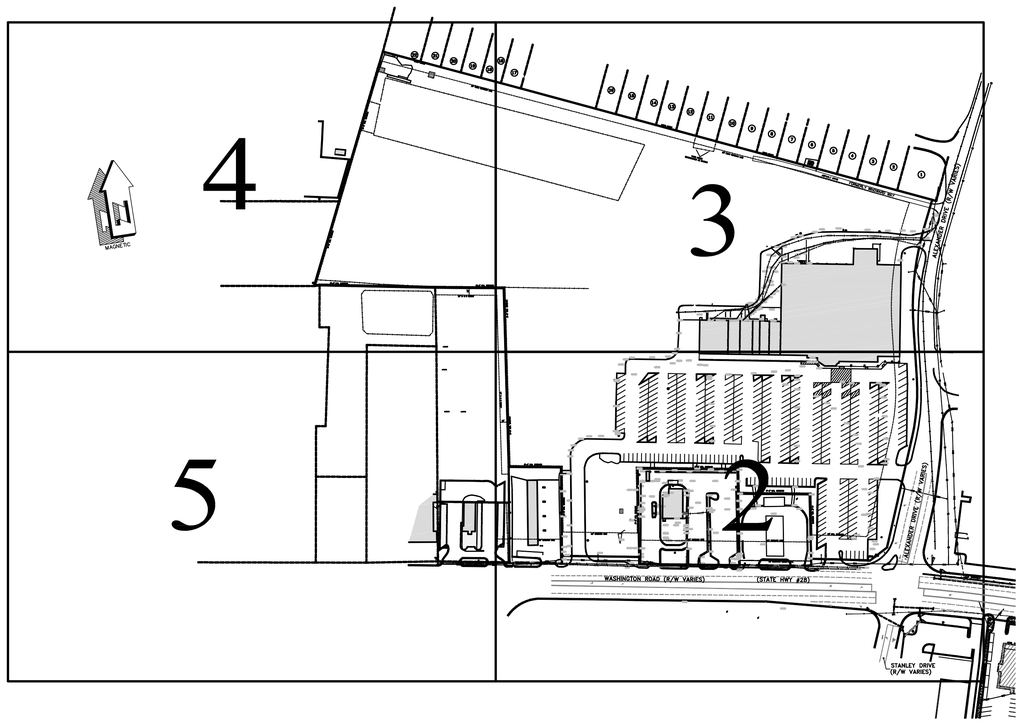
1. BOUNDARY & TOPPGRAPHIC MAP FOR W. RODGER GILES BY BALDWIN & CRANSTON ASSOC., DATED APRIL 19,1985 , LAST REV. 3-2-87.
2. EASEMENT TO RICHMOND COUNTY, GEORGIA RECORDED IN REALTY REEL 74, PG. 548.
3. CONSENT JUDGEMENT IN ACTION OF PAUL SIMON VS. RICHMOND COUNTY, GEORGIA, et al., DATED JANUARY 27, 1977, RECORDED IN REALTY REEL 71, PG. 1349.
4. EASEMENT FROM PAUL S. SIMON TO RICHMOND COUNTY, GEORGIA , DATED MARCH 28, 1977 RECORDED IN REALTY REEL 74, PG. 549–552.
5. EASEMENT TO RICHMOND COUNTY, GEORGIA, DATED JULY 6, 1961. RECORDED IN REALTY BOOK 28–F, PG. 519–520.
6. GENERAL SERVICE EASEMENTS TO GEORGIA POWER CO. RECORDED AS FOLLOWS: BOOK 14–F, PG. 461; BOOK 33–H, PG 466.
7. SANITARY SEWER EASEMENTS TO THE CITY COUNCIL OF AUGUSTA OVER A 10' STRIP OF LAND ALONG THE NORTHERN RIGHT OF WAY OF WASHINGTON RD. RECORDED AS FOLLOWS: BOOK 39–L, PG. 266; BOOK 39–L, PG. 478; BOOK 39–L, PG. 236.
8. QUITCLAIM DEED FOR 15' STRIP ALONG WASHINGTON RD.TO GEORGIA STATE HIGHWAY DEPT. RECORDED IN REALTY REEL 252, PG. 1232–1235.
9. EASEMENT AGREEMENT WITH GEORGIA POWER CO. RECORDED IN REALTY REEL 244, PG. 260.
10. EASEMENT PLAT FOR THE CITY OF AUGUSTA BY JAMES G. SWIFT & ASSOC. DATED DEC. 11, 1986, LAST REV. FEB. 25, 1987. (AGREEMENT NOT RECORDED)
11. EASEMENT AGREEMENT BETWEEN TOPVALCO INC. AND Mc DONALD'S CORP. RECORDED IN REALTY REEL 290, PG 93.
12. QUITCLAIM DEED TO RICHMOND COUNTY FOR ADDITIONAL R/W ALONG ALEXANDER DR. RECORDED IN REALTY REEL 289, PG. 1747.
13. AS– BUILT & BOUNDARY PLAT OF KROGER STORE #368 WASHINGTON WALK FOR TOPVALCO, INC. BY CRANSTON, ROBERTSON & WHITEHURST, P.C. DATED JULY 28,1989.
14. RECORD PLAT OF CASTLEBROOK VILLAGE BY H. LAWSON GRAHAM AND ASSOCIATES, INC. DATED JULY, 1997; AND RECORDED IN REALTY REEL 572, PAGES 1317–1320.

LEGAL DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND SITUATE, LYING AND BEING IN RICHMOND COUNTY, GEORGIA AT THE INTERSECTION OF THE NORTHERN RIGHT–OF–WAY OF WASHINGTON ROAD WITH THE WESTERN RIGHT–OF–WAY OF ALEXANDER DRIVE BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: **POINT OF BEGINNING** AT A CONCRETE MONUMENT FOUND AT THE POINT OF INTERSECTION REFERRED TO ABOVE AND RUNNING THENCE ALONG THE NORTHERN RIGHT–OF–WAY OF WASHINGTON ROAD IN A WESTERLY DIRECTION ALONG A CURVE TO THE LEFT, THE RADIUS OF WHICH IS 2921.79 FEET, A DISTANCE OF 123.32 FEET TO A #5 REBAR FOUND (SAID CURVE SUBTENDED BY A CHORD RUNNING NORTH 79°20'50" WEST, 123.31 FEET); THENCE, TURN AND RUN NORTH 07°35'24" EAST A DISTANCE OF 135.22 FEET TO A CONCRETE MONUMENT FOUND; THENCE, TURN AND RUN NORTH 80°35'09" WEST A DISTANCE OF 149.97 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN NORTH 07°25'57" EAST A DISTANCE OF 50.40 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN NORTH 80°30'08" WEST A DISTANCE OF 59.77 FEET TO A 2" OPEN TOP IRON FOUND; THENCE, TURN AND RUN NORTH 80°26'03" WEST A DISTANCE OF 149.65 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN SOUTH 07°49'09" WEST A DISTANCE OF 185.27 FEET TO A #5 REBAR FOUND ON THE NORTHERN RIGHT–OF–WAY OF WASHINGTON ROAD; THENCE, TURN AND RUN ALONG THE NORTHERN RIGHT–OF–WAY OF WASHINGTON ROAD NORTH 80°22'02" WEST A DISTANCE OF 161.88 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN NORTH 08°10'48" EAST A DISTANCE OF 185.42 FEET TO A #5 REBAR FOUND; THENCE, TURN AND RUN NORTH 80°28'38" WEST A DISTANCE OF 109.43 FEET TO A #5 REBAR FOUND; THENCE, TURN AND RUN NORTH 07°16'42" EAST A DISTANCE OF 374.76 FEET TO A #5 REBAR FOUND; THENCE, TURN AND RUN NORTH 80°41'26" WEST A DISTANCE OF 143.72 FEET TO A 1" CRIMP TOP IRON FOUND; THENCE, TURN AND RUN NORTH 79°57'18" WEST A DISTANCE OF 242.31 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN NORTH 88°27'35" WEST A DISTANCE OF 11.43 FEET TO A 1" OPEN TOP IRON FOUND; THENCE, TURN AND RUN NORTH 25°09'29" EAST A DISTANCE OF 184.81 FEET TO A #5 REBAR FOUND; THENCE, TURN AND RUN NORTH 25°16'48" EAST A DISTANCE OF 327.40 FEET TO A 2" OPEN TOP IRON FOUND; THENCE, TURN AND RUN SOUTH 66°09'30" EAST A DISTANCE OF 299.45 FEET TO A #4 REBAR FOUND; THENCE, TURN AND RUN SOUTH 65°57'00" EAST A DISTANCE OF 893.01 FEET TO A #5 REBAR SET ON THE WESTERN RIGHT–OF–WAY OF ALEXANDER DRIVE; THENCE, TURN AND RUN SOUTH 25°14'40" WEST ALONG THE WESTERN RIGHT–OF–WAY OF ALEXANDER DRIVE A DISTANCE OF 58.59 FEET TO A POINT ON A MANHOLE; THENCE, CONTINUE IN A SOUTHERLY DIRECTION ALONG SAID RIGHT–OF–WAY ALONG A CURVE TO THE LEFT, THE RADIUS OF WHICH IS 607.96 FEET, A DISTANCE OF 214.99 FEET, TO A #4 REBAR FOUND (SAID CURVE SUBTENDED BY A CHORD RUNNING SOUTH 14°55'42" WEST, 213.87 FEET); THENCE, CONTINUE ALONG SAID RIGHT–OF–WAY SOUTH 05°10'37" WEST A DISTANCE OF 104.36 FEET TO A CONCRETE MONUMENT FOUND; THENCE, CONTINUE IN A SOUTHERLY DIRECTION ALONG SAID RIGHT–OF–WAY ALONG A CURVE TO THE RIGHT, THE RADIUS OF WHICH IS 431.73 FEET, A DISTANCE OF 125.91 FEET TO A CONCRETE MONUMENT FOUND (SAID CURVE SUBTENDED BY A CHORD RUNNING SOUTH 13°25'55" WEST, 125.46 FEET); THENCE, TURN AND RUN SOUTH 21°42'31" WEST ALONG SAID RIGHT–OF–WAY A DISTANCE OF 236.58 FEET TO A CONCRETE MONUMENT FOUND; THENCE TURN AND RUN SOUTH 61°14'57" WEST ALONG SAID RIGHT–OF–WAY 45.19 FEET TO THE NORTHERN RIGHT–OF–WAY OF WASHINGTON ROAD AND THE **POINT OF BEGINNING**.

THE UNDERSIGNED, AS OF THIS 1st DAY OF OCTOBER, 2004 CERTIFIES TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF TO THE KROGER CO., AN OHIO CORPORATION, AND LAWYERS TITLE INSURANCE CORPORATION THAT HE IS A DULY REGISTERED SURVEYOR IN THE STATE OF GEORGIA; THIS SURVEY IS MADE IN ACCORDANCE WITH THE STANDARDS ESTABLISHED BY THE AMERICAN TITLE ASSOCIATION AND THE STATE OF GEORGIA. THE INFORMATION, COURSES AND DISTANCES SHOWN HEREIN ARE CORRECT; THIS SURVEY ACCURATELY SHOWS THE LOCATION AND DIMENSIONS OF ALL BUILDINGS, ABOVE GROUND UTILITIES AND OTHER IMPROVEMENTS SITUATED ON THE PREMISES; THE PREMISES DO NOT LIE WITH IN A DESIGNATED 100 YEAR FLOOD PLAIN IN ACCORDANCE WITH THE DOCUMENT ENTITLED "DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT INSURANCE ADMINISTRATION – SPECIAL FLOOD HAZARD AREA MAPS"; THE PREMISES ARE CONTIGUOUS WITH THE PUBLIC DEDICATED RIGHTS–OF WAY OF WASHINGTON ROAD (STATE HIGHWAY #28) AND ALEXANDER DRIVE AND THERE ARE NO EASEMENT FOR RIGHTS–OF–WAY ENCUMBERING THE PREMISES OF WHICH THE UNDERSIGNED HAS BEEN ADVISED ENCROACHMENTS OF BUILDINGS OR OTHER VISIBLE IMPROVEMENTS FROM ADJOINING PROPERTY ONTO THE PREMISES, OR ENCROACHMENTS ORBUILDINGS OR OTHER VISIBLE IMPROVEMENTS FROM THE PREMISES ONTO ADJOINING PROPERTY, OTHER THAN AS SHOWN THEREIN.

John Thomas Attaway
Georgia RLS No. 2512



UTILITY COMPANY CONTACT LIST

MR. BUD HAMLIN (MAINENANCE)
AUGUSTA UTILITIES DEPARTMENT
2822 CENTRAL AVENUE
AUGUSTA, GEORGIA 30909
(706) 736–8497

MR. MAX HICKS (MAIN CONTACT)
AUGUSTA UTILITIES DEPARTMENT
360 BAY STREET, SUITE 180
AUGUSTA, GEORGIA 30901
(706) 312–4131

MR. TOMMY HARWELL
ATLANTA GAS LIGHT CO.
1840 WYLDS ROAD
AUGUSTA, GEORGIA 30909

MR. JEFF SURRENCY (OUTSIDE AUGUSTA NATIONAL)
BELLSOUTH
3841 WRIGHTSBORO ROAD
AUGUSTA, GEORGIA 30909
(706) 210–8237

MS. JULIE DAVIS
HEAD OF DISTRIBUTION
BELLSOUTH
3841 WRIGHTSBORO ROAD
AUGUSTA, GEORGIA 30909
(706) 821–7528

MR. MARK MILLS
GEORGIA POWERS
2103 NORTH LEG ROAD
AUGUSTA, GEORGIA 30909
(706) 667–5633

MR. ROBERT AUSTIN
AUGUSTA–RICHMOND COUNTY PLANNING COMMISSION
525 TELFAIR STREET
AUGUSTA, GEORGIA 30901
(706) 821–1796

MR. JACK THORNTON
COMCAST
739–1842 (OFFICE)
339–2578 (CELL)
855–6438 (FAX)

PAT CASEY
KNOLOGY
364–1043 (OFFICE)
294–2975 (CELL)
364–1001 (FAX)
364–9986 (FAX CONSTRUCTION OFFICE)

UTILITY NOTE:

THE EXISTENCE, ABSENCE, LOCATIONS, AND DEPTHS OF UTILITIES AND UNDERGROUND ITEMS HAVE BEEN DETERMINED BY ORDINARY SURVEYING METHODS FROM FIELD OBSERVATIONS AND FROM INFORMATION FURNISHED BY THE UTILITY COMPANIES, AND ARE NOT GUARANTEED.

NOTES:

1. LOCATION OF UNDERGROUND POWER AND TELEPHONE CABLES WAS BASED ON MARKINGS BY UTILITY REPRESENTATIVES.
2. LOCATION OF UNDERGROUND GAS LINES TAKEN FORM GAS COMPANY FIELD BOOK.
3. SIDE SETBACK IS 0' OR 3'.
4. PROPERTY ADDRESS IS KNOWN AS 2801 WASHINGTON ROAD.
5. SQUARE FOOTAGE OF KROGER STORE DOES NOT INCLUDE ENCLOSED LOADING DOCK.
6. REFERENCES #3 & #6 NOT LOCATEABLE.
7. REFERENCE #7 NO LONGER APPLIES TO THE PROPERTY.
8. AREA OF ASPHALT AND CONCRETE PARKING AREA IS 195,130 Sq. Ft. AND DOES NOT INCLUDE WESTERN DRIVEWAY TO WASHINGTON ROAD.
9. IMPROVEMNETS ON SUBJECT PROPERTY DOES NOT LIE WITHIN ANY CONICAL ZONE FOR ANY AIRPORT.
10. SQUARE FOOTAGE OF STORES PROVIDED BY KROGER COMPANY REPRESENTATIVE.
11. PROPERTY HAS 352 PARKING SPACES IN WHICH 5 ARE MARKED HANDICAP.

ALTA/ASCM
BOUNDARY, TOPOGRAPHIC & UTILITY MAP
FOR
KROGER STORE #368

SHOWING PROPERTY KNOWN AS 2801 WASHINGTON ROAD IN THE 90th G.M.D.

AUGUSTA, RICHMOND COUNTY, GEORGIA

SCALE : 1" = 30' APRIL 7, 2006

REV: 6-29-06
REV: 9-8-06

30' 15' 0 30' 60'
SCALE IN FEET

PREPARED BY

Cranston, Robertson & Whitehurst, P.C.
452 ELLIS STREET – P.O. DRAWER 2546 – AUGUSTA, GEORGIA 30903
ENGINEERS – PLANNERS – SURVEYORS
PH: (706) 722-1588 – WEBSITE: www.crwpc.com – FACSIMILE: (706) 722-8379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MAGNETIC
CASTLEBROOK VILLAGE
SUBDIVISION
ZONED R-1D
GLENNFIELD LN
ALEXANDER DRIVE (R/W VARIES)
FORMERLY WINDWARD WAY
ASPHALT DRIVE
COMMON AREA
COULDN'T LOCATE MANHOLE
S65°57'00"E
893.01'
S25°14'40"W
58.59'
N=4726.8842
E=9246.1687
R=607.96'
L=214.99'
S14°55'42"W (CH)
213.87' (CH)
20' SANITARY SEWER ESM'T (SEE REF. #10)
20' UTILITY ESM'T (SEE REF. #10)
20' REAR SETBACK LINE
WOOD FENCE (ENCROACHES AS SHOWN)
IN USE BY ADJOINER
CONC. DRIVE
CONCRETE PAVING
ASPHALT PAVING
ELECTRIC TRANSFORMER
8" WATER LINE
45' MIN. SETBACK
KROGER STORE #368
BRICK & CONCRETE EXTERIOR
51,705 S.F.
MOVIE GALLERY
4,226 S.F.
GREAT CLIPS
1,743 S.F.
WELLS FERGO
1,864 S.F.
LUCKY CLEANERS
1,253 S.F.
DOMINOES
1,407 S.F.
VACANT
1,676 S.F.
Sheet 3 of 5
06-083

ALTA/ASCM

BOUNDARY, TOPOGRAPHIC & UTILITY MAP

FOR

KROGER STORE #368

SHOWING PROPERTY KNOWN AS 2801 WASHINGTON ROAD IN THE 90th G.M.D.

AUGUSTA, RICHMOND COUNTY, GEORGIA

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30' 15' 0 30' 60'

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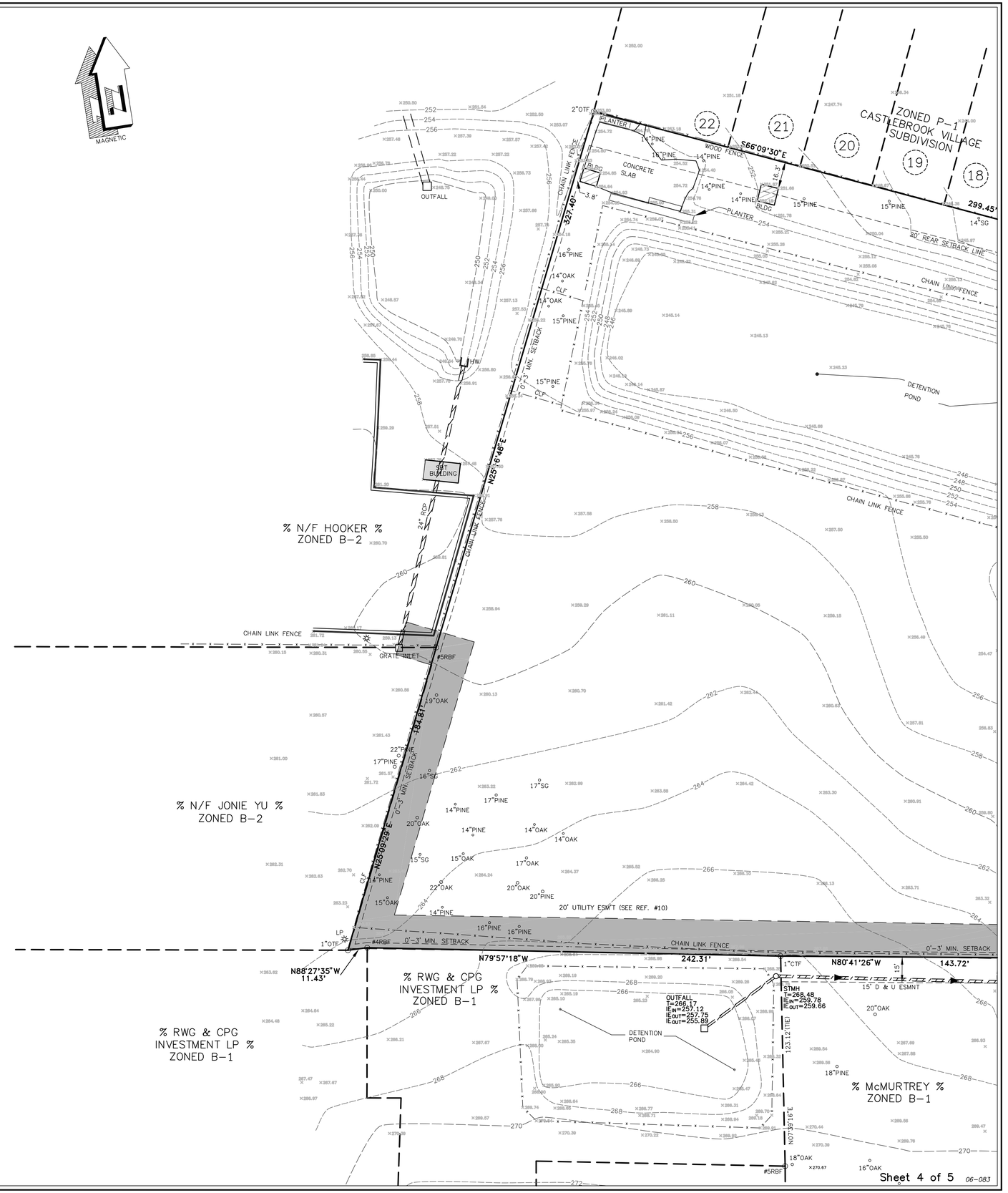
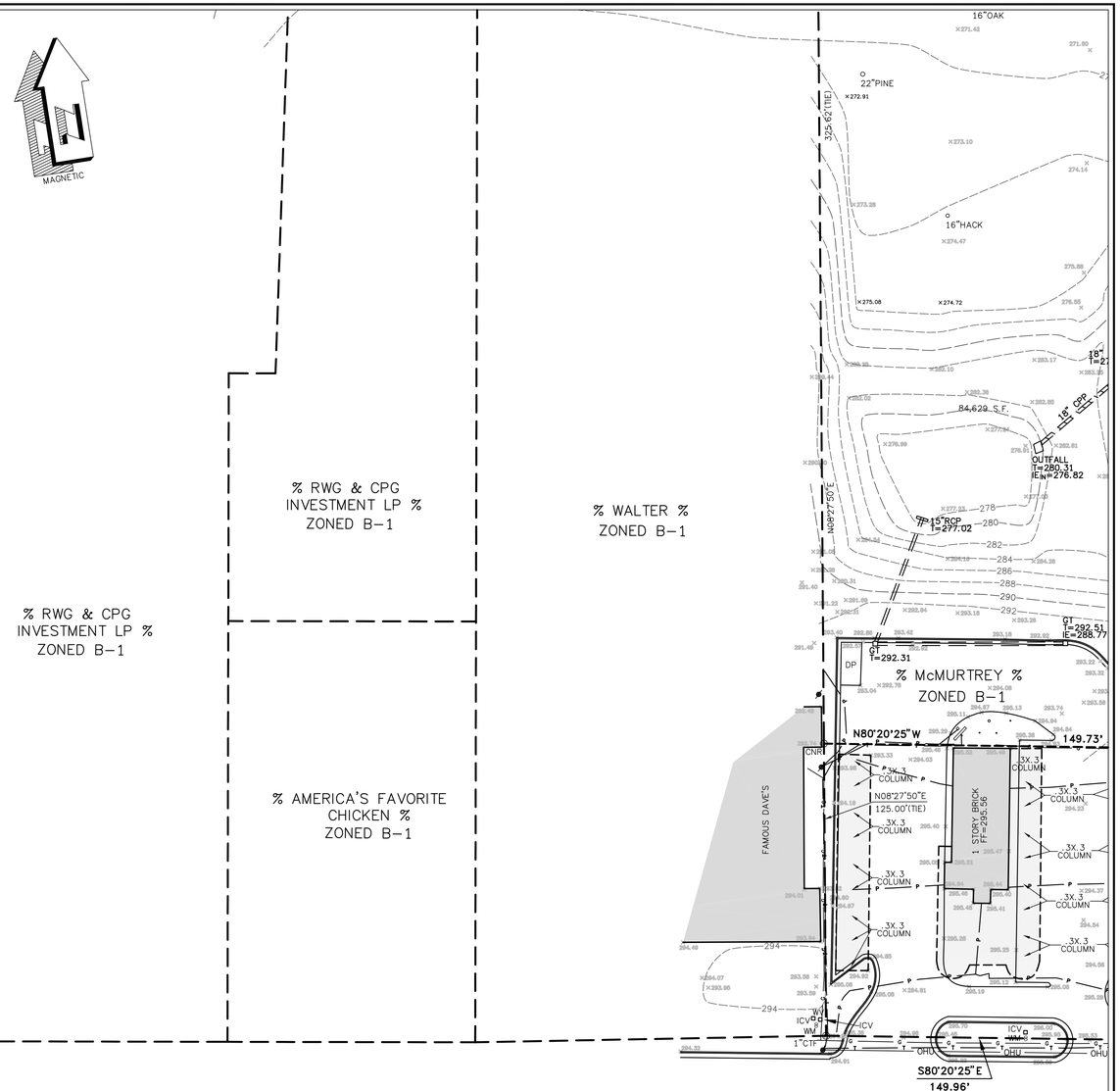
PH: (706) 722-1588 – WEBSITE: www.crwpc.com – FACSIMILE: (706) 722-8379

MAGNETIC





ALTA/ASCM
BOUNDARY, TOPOGRAPHIC & UTILITY MAP

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AUGUSTA, RICHMOND COUNTY, GEORGIA

SCALE : 1" = 30'

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REV:6-29-06
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30' 15' 0 30' 60'

SCALE IN FEET

PREPARED BY

Cranston, Robertson & Whitehurst, P.C.

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Appendix C
June 2017 Groundwater Analytical Report

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 19, 2017

Nathan Parker
Enercon Services
500 Townpark Ln
Kennesaw, GA 30144

RE: Project: LUCKY CLEANERS
Pace Project No.: 92343524

Dear Nathan Parker:
Enclosed are the analytical results for sample(s) received by the laboratory between June 08, 2017 and June 09, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Chrissy Sherman, Enercon Services

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92343524001	**MW-6**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	CAH	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MVC	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524002	**MW-8**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	CAH	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MVC	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524003	**MW-10**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	CAH	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MVC	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524004	**MW-12**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	CAH	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MVC	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524005	**MW-13**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	CAH	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MVC	1	PASI-A
		EPA 300.0	CDC	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524006	**MW-14**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	CAH	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MVC	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524007	**MW-15**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	CAH	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MVC	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524008	**MW-1**	RSK 175 Modified	WDV	3	PASI-C
		EPA 6010	SH1	7	PASI-A
		EPA 7470	WAB	1	PASI-A
		EPA 8260	GAW	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MDW	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	AES2	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524009	**MW-2**	RSK 175 Modified	WDV	3	PASI-C
		EPA 6010	SH1	7	PASI-A
		EPA 7470	WAB	1	PASI-A
		EPA 8260	GAW	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MDW	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	AES2	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524010	**MW-3**	RSK 175 Modified	WDV	3	PASI-C
		EPA 6010	SH1	7	PASI-A
		EPA 7470	WAB	1	PASI-A
		EPA 8260	GAW	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MDW	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	AES2	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524011	**MW-5**	RSK 175 Modified	WDV	3	PASI-C
		EPA 6010	SH1	7	PASI-A
		EPA 7470	WAB	1	PASI-A
		EPA 8260	GAW	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MDW	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	AES2	1	PASI-A
		SM 4500-Cl-E	CJH1	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524012	**MW-4**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	GAW	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MDW	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	AES2	1	PASI-A
		SM 4500-Cl-E	BRJ	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524013	**MW-7**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	GAW	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MDW	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	AES2	1	PASI-A
		SM 4500-Cl-E	BRJ	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 5310B	KDF1	1	PASI-A
92343524014	**MW-11**	RSK 175 Modified	WDV	3	PASI-C
		EPA 8260	GAW	63	PASI-C
		SM 3500-Fe B	CJH1	1	PASI-A
		SM 4500-S2D	MDW	1	PASI-A
		EPA 300.0	CDC	1	PASI-A
		EPA 353.2	AES2	1	PASI-A
		SM 4500-Cl-E	BRJ	1	PASI-A
		SM 5310B	KDF1	1	PASI-A
92343524015	**DRUM 1**	EPA 8260	GAW	63	PASI-C

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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-6 **Lab ID: 92343524001** Collected: 06/07/17 20:05 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	100	10		06/13/17 16:04	74-84-0	
Ethene	ND	ug/L	100	10		06/13/17 16:04	74-85-1	
Methane	**36100**	ug/L	100	10		06/13/17 16:04	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 08:49	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 08:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 08:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 08:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 08:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 08:49	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 08:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 08:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 08:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 08:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 08:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 08:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 08:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 08:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 08:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 08:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 08:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 08:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 08:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 08:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 08:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 08:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 08:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 08:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 08:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 08:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 08:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 08:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 08:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 08:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 08:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 08:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 08:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 08:49	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 08:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 08:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 08:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 08:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 08:49	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 08:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 08:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 08:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-6 **Lab ID: 92343524001** Collected: 06/07/17 20:05 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 08:49	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 08:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 08:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 08:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 08:49	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 08:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 08:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 08:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 08:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 08:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 08:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 08:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 08:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 08:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 08:49	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 08:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 08:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 08:49	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		06/10/17 08:49	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		06/10/17 08:49	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/10/17 08:49	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	**7.8**	mg/L	2.5	5		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	**0.12**	mg/L	0.10	1		06/13/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	1.0	1		06/10/17 15:04	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.020	1		06/09/17 07:47		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**20.2**	mg/L	1.0	1		06/14/17 02:19	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**1.3**	mg/L	1.0	1		06/13/17 04:21	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-8 **Lab ID: 92343524002** Collected: 06/07/17 18:45 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 16:19	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 16:19	74-85-1	
Methane	**27.9**	ug/L	10.0	1		06/13/17 16:19	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 09:06	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 09:06	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 09:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 09:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 09:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 09:06	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 09:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 09:06	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 09:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 09:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 09:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 09:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 09:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 09:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 09:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 09:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 09:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 09:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 09:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 09:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 09:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 09:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 09:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 09:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 09:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 09:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 09:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 09:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 09:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 09:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 09:06	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 09:06	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 09:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 09:06	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 09:06	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 09:06	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 09:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 09:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 09:06	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-8 **Lab ID: 92343524002** Collected: 06/07/17 18:45 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 09:06	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 09:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 09:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 09:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 09:06	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 09:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 09:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 09:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 09:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 09:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 09:06	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 09:06	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 09:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 09:06	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 09:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 09:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		06/10/17 09:06	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		06/10/17 09:06	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		06/10/17 09:06	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	ND	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/13/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**18.4**	mg/L	1.0	1		06/10/17 15:21	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.020	1		06/09/17 07:45		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**5.6**	mg/L	1.0	1		06/14/17 02:20	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	ND	mg/L	1.0	1		06/13/17 04:32	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-10 **Lab ID: 92343524003** Collected: 06/07/17 16:55 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 16:34	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 16:34	74-85-1	
Methane	**72.9**	ug/L	10.0	1		06/13/17 16:34	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 09:40	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 09:40	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 09:40	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 09:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 09:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 09:40	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 09:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 09:40	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 09:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 09:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 09:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 09:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 09:40	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 09:40	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 09:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 09:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 09:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 09:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 09:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 09:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 09:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 09:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 09:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 09:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 09:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 09:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 09:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 09:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 09:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 09:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 09:40	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 09:40	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 09:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 09:40	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 09:40	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 09:40	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 09:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 09:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 09:40	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-10 **Lab ID: 92343524003** Collected: 06/07/17 16:55 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 09:40	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 09:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 09:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 09:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 09:40	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 09:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 09:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 09:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 09:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 09:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 09:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 09:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 09:40	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 09:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 09:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 09:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		06/10/17 09:40	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		06/10/17 09:40	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		06/10/17 09:40	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	**1.2**	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/13/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**7.9**	mg/L	1.0	1		06/10/17 15:37	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**4.1**	mg/L	0.020	1		06/09/17 07:34		M1
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**67.2**	mg/L	5.0	5		06/14/17 03:54	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	ND	mg/L	1.0	1		06/13/17 04:42	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-12 **Lab ID: 92343524004** Collected: 06/07/17 19:10 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 16:49	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 16:49	74-85-1	
Methane	**10900**	ug/L	10.0	1		06/13/17 16:49	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 09:58	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 09:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 09:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 09:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 09:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 09:58	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 09:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 09:58	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 09:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 09:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 09:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 09:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 09:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 09:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 09:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 09:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 09:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 09:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 09:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 09:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 09:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 09:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 09:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 09:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 09:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 09:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 09:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 09:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 09:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 09:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 09:58	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 09:58	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 09:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 09:58	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 09:58	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 09:58	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 09:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 09:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 09:58	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-12 **Lab ID: 92343524004** Collected: 06/07/17 19:10 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 09:58	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 09:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 09:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 09:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 09:58	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 09:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 09:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 09:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 09:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 09:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 09:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 09:58	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 09:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 09:58	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 09:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 09:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 09:58	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		06/10/17 09:58	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		06/10/17 09:58	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/10/17 09:58	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	**11.3**	mg/L	2.5	5		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/13/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	1.0	1		06/10/17 15:54	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.020	1		06/09/17 07:46		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**22.1**	mg/L	1.0	1		06/14/17 02:22	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**4.7**	mg/L	1.0	1		06/13/17 04:53	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-13 **Lab ID: 92343524005** Collected: 06/07/17 17:30 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 17:05	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 17:05	74-85-1	
Methane	**445**	ug/L	10.0	1		06/13/17 17:05	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 10:15	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 10:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 10:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 10:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 10:15	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 10:15	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 10:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 10:15	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 10:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 10:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 10:15	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 10:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 10:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 10:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 10:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 10:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 10:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 10:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 10:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 10:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 10:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 10:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 10:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 10:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 10:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 10:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 10:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 10:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 10:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 10:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 10:15	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 10:15	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 10:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 10:15	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 10:15	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 10:15	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 10:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 10:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 10:15	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-13 **Lab ID: 92343524005** Collected: 06/07/17 17:30 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 10:15	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 10:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 10:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 10:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 10:15	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 10:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 10:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 10:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 10:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 10:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 10:15	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 10:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 10:15	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 10:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 10:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 10:15	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		06/10/17 10:15	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		06/10/17 10:15	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/10/17 10:15	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	ND	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/13/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	ND	mg/L	1.0	1		06/10/17 16:10	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.020	1		06/09/17 07:43		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**61.8**	mg/L	5.0	5		06/14/17 03:55	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	ND	mg/L	1.0	1		06/13/17 05:15	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-14 **Lab ID: 92343524006** Collected: 06/07/17 17:55 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 17:20	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 17:20	74-85-1	
Methane	ND	ug/L	10.0	1		06/13/17 17:20	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 10:32	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 10:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 10:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 10:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 10:32	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 10:32	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 10:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 10:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 10:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 10:32	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 10:32	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 10:32	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 10:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 10:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 10:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 10:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 10:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 10:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 10:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 10:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 10:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 10:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 10:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 10:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 10:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 10:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 10:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 10:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 10:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 10:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 10:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 10:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 10:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 10:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 10:32	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 10:32	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 10:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 10:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 10:32	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-14 **Lab ID: 92343524006** Collected: 06/07/17 17:55 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 10:32	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 10:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 10:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 10:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 10:32	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 10:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 10:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 10:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 10:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 10:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 10:32	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 10:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 10:32	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 10:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 10:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 10:32	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		06/10/17 10:32	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		06/10/17 10:32	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		06/10/17 10:32	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	ND	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/13/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**14.8**	mg/L	1.0	1		06/10/17 16:27	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.42**	mg/L	0.020	1		06/09/17 07:44		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**13.3**	mg/L	1.0	1		06/14/17 02:26	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	ND	mg/L	1.0	1		06/13/17 05:25	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-15 **Lab ID: 92343524007** Collected: 06/07/17 20:45 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 17:35	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 17:35	74-85-1	
Methane	**143**	ug/L	10.0	1		06/13/17 17:35	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 10:49	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 10:49	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 10:49	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 10:49	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 10:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 10:49	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 10:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 10:49	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 10:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 10:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 10:49	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 10:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 10:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 10:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 10:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 10:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 10:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 10:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 10:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 10:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 10:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 10:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 10:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 10:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 10:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 10:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 10:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 10:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 10:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 10:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 10:49	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 10:49	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 10:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 10:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 10:49	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 10:49	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 10:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 10:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 10:49	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-15 **Lab ID: 92343524007** Collected: 06/07/17 20:45 Received: 06/08/17 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 10:49	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 10:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 10:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 10:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 10:49	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 10:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 10:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 10:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 10:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 10:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 10:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 10:49	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 10:49	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 10:49	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 10:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 10:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 10:49	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		06/10/17 10:49	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130	1		06/10/17 10:49	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/10/17 10:49	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	ND	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/13/17 01:00	18496-25-8	M1,R1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**3.2**	mg/L	1.0	1		06/10/17 17:16	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.020	1		06/09/17 07:48		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**35.2**	mg/L	1.0	1		06/14/17 02:27	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**1.8**	mg/L	1.0	1		06/13/17 06:01	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-1 **Lab ID: 92343524008** Collected: 06/08/17 15:45 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 17:50	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 17:50	74-85-1	
Methane	**706**	ug/L	10.0	1		06/13/17 17:50	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	06/12/17 16:20	06/13/17 11:20	7440-38-2	
Barium	**16.0**	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:20	7440-39-3	
Cadmium	**1.8**	ug/L	1.0	1	06/12/17 16:20	06/13/17 11:20	7440-43-9	
Chromium	**5.1**	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:20	7440-47-3	
Lead	**5.3**	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:20	7439-92-1	
Selenium	ND	ug/L	10.0	1	06/12/17 16:20	06/13/17 11:20	7782-49-2	
Silver	ND	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:20	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/12/17 18:04	06/14/17 15:41	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	62.5	2.5		06/12/17 22:19	67-64-1	
Benzene	ND	ug/L	2.5	2.5		06/12/17 22:19	71-43-2	
Bromobenzene	ND	ug/L	2.5	2.5		06/12/17 22:19	108-86-1	
Bromochloromethane	ND	ug/L	2.5	2.5		06/12/17 22:19	74-97-5	
Bromodichloromethane	ND	ug/L	2.5	2.5		06/12/17 22:19	75-27-4	
Bromoform	ND	ug/L	2.5	2.5		06/12/17 22:19	75-25-2	
Bromomethane	ND	ug/L	5.0	2.5		06/12/17 22:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	12.5	2.5		06/12/17 22:19	78-93-3	
Carbon tetrachloride	ND	ug/L	2.5	2.5		06/12/17 22:19	56-23-5	
Chlorobenzene	ND	ug/L	2.5	2.5		06/12/17 22:19	108-90-7	
Chloroethane	ND	ug/L	2.5	2.5		06/12/17 22:19	75-00-3	
Chloroform	ND	ug/L	2.5	2.5		06/12/17 22:19	67-66-3	
Chloromethane	ND	ug/L	2.5	2.5		06/12/17 22:19	74-87-3	
2-Chlorotoluene	ND	ug/L	2.5	2.5		06/12/17 22:19	95-49-8	
4-Chlorotoluene	ND	ug/L	2.5	2.5		06/12/17 22:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5		06/12/17 22:19	96-12-8	
Dibromochloromethane	ND	ug/L	2.5	2.5		06/12/17 22:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	2.5	2.5		06/12/17 22:19	106-93-4	
Dibromomethane	ND	ug/L	2.5	2.5		06/12/17 22:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	2.5	2.5		06/12/17 22:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2.5	2.5		06/12/17 22:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2.5	2.5		06/12/17 22:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	2.5	2.5		06/12/17 22:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	2.5	2.5		06/12/17 22:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	2.5	2.5		06/12/17 22:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	2.5	2.5		06/12/17 22:19	75-35-4	
cis-1,2-Dichloroethene	**24.0**	ug/L	2.5	2.5		06/12/17 22:19	156-59-2	
trans-1,2-Dichloroethene	**12.0**	ug/L	2.5	2.5		06/12/17 22:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	2.5	2.5		06/12/17 22:19	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-1 **Lab ID: 92343524008** Collected: 06/08/17 15:45 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	ND	ug/L	2.5	2.5		06/12/17 22:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	2.5	2.5		06/12/17 22:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	2.5	2.5		06/12/17 22:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	2.5	2.5		06/12/17 22:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	2.5	2.5		06/12/17 22:19	10061-02-6	
Diisopropyl ether	ND	ug/L	2.5	2.5		06/12/17 22:19	108-20-3	
Ethylbenzene	ND	ug/L	2.5	2.5		06/12/17 22:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.5	2.5		06/12/17 22:19	87-68-3	
2-Hexanone	ND	ug/L	12.5	2.5		06/12/17 22:19	591-78-6	
p-Isopropyltoluene	ND	ug/L	2.5	2.5		06/12/17 22:19	99-87-6	
Methylene Chloride	ND	ug/L	5.0	2.5		06/12/17 22:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	12.5	2.5		06/12/17 22:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	2.5	2.5		06/12/17 22:19	1634-04-4	
Naphthalene	ND	ug/L	2.5	2.5		06/12/17 22:19	91-20-3	
Styrene	ND	ug/L	2.5	2.5		06/12/17 22:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	2.5		06/12/17 22:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	2.5		06/12/17 22:19	79-34-5	
Tetrachloroethene	**283**	ug/L	2.5	2.5		06/12/17 22:19	127-18-4	
Toluene	ND	ug/L	2.5	2.5		06/12/17 22:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.5	2.5		06/12/17 22:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.5	2.5		06/12/17 22:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	2.5	2.5		06/12/17 22:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	2.5	2.5		06/12/17 22:19	79-00-5	
Trichloroethene	**144**	ug/L	2.5	2.5		06/12/17 22:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	2.5	2.5		06/12/17 22:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	2.5		06/12/17 22:19	96-18-4	
Vinyl acetate	ND	ug/L	5.0	2.5		06/12/17 22:19	108-05-4	
Vinyl chloride	ND	ug/L	2.5	2.5		06/12/17 22:19	75-01-4	
Xylene (Total)	ND	ug/L	2.5	2.5		06/12/17 22:19	1330-20-7	
m&p-Xylene	ND	ug/L	5.0	2.5		06/12/17 22:19	179601-23-1	
o-Xylene	ND	ug/L	2.5	2.5		06/12/17 22:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	110	%	70-130	2.5		06/12/17 22:19	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	2.5		06/12/17 22:19	17060-07-0	
Toluene-d8 (S)	97	%	70-130	2.5		06/12/17 22:19	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	**41.0**	mg/L	12.5	25		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/14/17 01:45	18496-25-8	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**631**	mg/L	13.0	13		06/11/17 10:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-1 **Lab ID: 92343524008** Collected: 06/08/17 15:45 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.020	1		06/10/17 01:26		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**25.3**	mg/L	1.0	1		06/14/17 03:06	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**3.8**	mg/L	1.0	1		06/14/17 13:57	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-2 **Lab ID: 92343524009** Collected: 06/08/17 14:55 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 18:21	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 18:21	74-85-1	
Methane	**684**	ug/L	10.0	1		06/13/17 18:21	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	06/12/17 16:20	06/13/17 11:23	7440-38-2	
Barium	**8.5**	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:23	7440-39-3	
Cadmium	**2.2**	ug/L	1.0	1	06/12/17 16:20	06/13/17 11:23	7440-43-9	
Chromium	**11.0**	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:23	7440-47-3	
Lead	**9.2**	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:23	7439-92-1	
Selenium	ND	ug/L	10.0	1	06/12/17 16:20	06/13/17 11:23	7782-49-2	
Silver	ND	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:23	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/12/17 18:04	06/14/17 15:44	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 12:31	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 12:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 12:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 12:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 12:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 12:31	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 12:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 12:31	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 12:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 12:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 12:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 12:31	67-66-3	
Chloromethane	**2.5**	ug/L	1.0	1		06/10/17 12:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 12:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 12:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 12:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 12:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 12:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 12:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 12:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 12:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 12:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 12:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 12:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 12:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 12:31	75-35-4	
cis-1,2-Dichloroethene	**11.6**	ug/L	1.0	1		06/10/17 12:31	156-59-2	
trans-1,2-Dichloroethene	**11.7**	ug/L	1.0	1		06/10/17 12:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 12:31	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-2 **Lab ID: 92343524009** Collected: 06/08/17 14:55 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 12:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 12:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 12:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 12:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 12:31	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 12:31	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 12:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 12:31	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 12:31	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 12:31	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 12:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 12:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 12:31	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/10/17 12:31	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 12:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 12:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 12:31	79-34-5	
Tetrachloroethene	**73.5**	ug/L	1.0	1		06/10/17 12:31	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 12:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 12:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 12:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 12:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 12:31	79-00-5	
Trichloroethene	**64.3**	ug/L	1.0	1		06/10/17 12:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 12:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 12:31	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 12:31	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 12:31	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 12:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 12:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 12:31	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		06/10/17 12:31	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		06/10/17 12:31	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/10/17 12:31	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	ND	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/14/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**460**	mg/L	10.0	10		06/11/17 10:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-2 **Lab ID: 92343524009** Collected: 06/08/17 14:55 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.87**	mg/L	0.020	1		06/10/17 01:25		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**22.5**	mg/L	1.0	1		06/14/17 03:07	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**2.4**	mg/L	1.0	1		06/14/17 14:36	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-3 **Lab ID: 92343524010** Collected: 06/08/17 12:40 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 18:51	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 18:51	74-85-1	
Methane	ND	ug/L	10.0	1		06/13/17 18:51	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	06/12/17 16:20	06/13/17 11:27	7440-38-2	
Barium	**24.8**	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:27	7440-39-3	
Cadmium	ND	ug/L	1.0	1	06/12/17 16:20	06/13/17 11:27	7440-43-9	
Chromium	**11.9**	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:27	7440-47-3	
Lead	ND	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:27	7439-92-1	
Selenium	ND	ug/L	10.0	1	06/12/17 16:20	06/13/17 11:27	7782-49-2	
Silver	ND	ug/L	5.0	1	06/12/17 16:20	06/13/17 11:27	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/12/17 18:04	06/14/17 15:46	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 13:04	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 13:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 13:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 13:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 13:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 13:04	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 13:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 13:04	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 13:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 13:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 13:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 13:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 13:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 13:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 13:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 13:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 13:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 13:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 13:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 13:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 13:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 13:04	107-06-2	
1,1-Dichloroethene	**1.0**	ug/L	1.0	1		06/10/17 13:04	75-35-4	
cis-1,2-Dichloroethene	**5.4**	ug/L	1.0	1		06/10/17 13:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 13:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:04	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-3 **Lab ID: 92343524010** Collected: 06/08/17 12:40 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 13:04	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 13:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 13:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 13:04	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 13:04	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 13:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 13:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 13:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/10/17 13:04	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 13:04	100-42-5	M1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 13:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 13:04	79-34-5	
Tetrachloroethene	**4.2**	ug/L	1.0	1		06/10/17 13:04	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 13:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 13:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 13:04	79-00-5	
Trichloroethene	**16.7**	ug/L	1.0	1		06/10/17 13:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 13:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 13:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 13:04	108-05-4	M1
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 13:04	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 13:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 13:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 13:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		06/10/17 13:04	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		06/10/17 13:04	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/10/17 13:04	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	ND	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/14/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**158**	mg/L	3.0	3		06/11/17 10:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-3 **Lab ID: 92343524010** Collected: 06/08/17 12:40 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.57**	mg/L	0.020	1		06/10/17 00:57		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**18.2**	mg/L	1.0	1		06/14/17 03:12	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**1.3**	mg/L	1.0	1		06/14/17 14:46	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-5 **Lab ID: 92343524011** Collected: 06/08/17 16:45 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 19:07	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 19:07	74-85-1	
Methane	**25.3**	ug/L	10.0	1		06/13/17 19:07	74-82-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A							
Arsenic	ND	ug/L	10.0	1	06/12/17 16:20	06/13/17 12:50	7440-38-2	
Barium	**13.8**	ug/L	5.0	1	06/12/17 16:20	06/13/17 12:50	7440-39-3	
Cadmium	ND	ug/L	1.0	1	06/12/17 16:20	06/13/17 12:50	7440-43-9	
Chromium	ND	ug/L	5.0	1	06/12/17 16:20	06/13/17 12:50	7440-47-3	
Lead	ND	ug/L	5.0	1	06/12/17 16:20	06/13/17 12:50	7439-92-1	
Selenium	ND	ug/L	10.0	1	06/12/17 16:20	06/13/17 12:50	7782-49-2	
Silver	ND	ug/L	5.0	1	06/12/17 16:20	06/13/17 12:50	7440-22-4	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	06/12/17 18:04	06/14/17 15:48	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 13:21	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 13:21	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 13:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 13:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 13:21	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 13:21	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 13:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 13:21	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 13:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 13:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 13:21	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 13:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 13:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 13:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 13:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 13:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 13:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 13:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 13:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 13:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 13:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 13:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 13:21	75-35-4	
cis-1,2-Dichloroethene	**1.0**	ug/L	1.0	1		06/10/17 13:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 13:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:21	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-5 **Lab ID: 92343524011** Collected: 06/08/17 16:45 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:21	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 13:21	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 13:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 13:21	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 13:21	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 13:21	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 13:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 13:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 13:21	1634-04-4	
Naphthalene	**1.5**	ug/L	1.0	1		06/10/17 13:21	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 13:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 13:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 13:21	79-34-5	
Tetrachloroethene	**48.7**	ug/L	1.0	1		06/10/17 13:21	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 13:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 13:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 13:21	79-00-5	
Trichloroethene	**9.9**	ug/L	1.0	1		06/10/17 13:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 13:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 13:21	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 13:21	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 13:21	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 13:21	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 13:21	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 13:21	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		06/10/17 13:21	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		06/10/17 13:21	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		06/10/17 13:21	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	ND	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/14/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**153**	mg/L	3.0	3		06/11/17 11:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-5 **Lab ID: 92343524011** Collected: 06/08/17 16:45 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.2**	mg/L	0.020	1		06/10/17 01:27		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**20.3**	mg/L	1.0	1		06/14/17 03:13	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**1.3**	mg/L	1.0	1		06/14/17 14:57	7440-44-0	

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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-4 **Lab ID: 92343524012** Collected: 06/08/17 11:50 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 19:22	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 19:22	74-85-1	
Methane	ND	ug/L	10.0	1		06/13/17 19:22	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 13:38	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 13:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 13:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 13:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 13:38	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 13:38	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 13:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 13:38	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 13:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 13:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 13:38	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 13:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 13:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 13:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 13:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 13:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 13:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 13:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 13:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 13:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 13:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 13:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 13:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 13:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 13:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:38	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 13:38	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 13:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 13:38	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 13:38	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 13:38	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 13:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 13:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 13:38	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-4 **Lab ID: 92343524012** Collected: 06/08/17 11:50 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 13:38	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 13:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 13:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 13:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 13:38	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 13:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 13:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 13:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 13:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 13:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 13:38	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 13:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 13:38	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 13:38	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 13:38	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 13:38	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		06/10/17 13:38	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		06/10/17 13:38	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/10/17 13:38	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	ND	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/14/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**15.6**	mg/L	1.0	1		06/11/17 05:02	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.39**	mg/L	0.020	1		06/10/17 00:55		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**15.5**	mg/L	1.0	1		06/16/17 17:28	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	ND	mg/L	1.0	1		06/14/17 15:07	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-7 **Lab ID: 92343524013** Collected: 06/08/17 10:00 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	10.0	1		06/13/17 19:37	74-84-0	
Ethene	ND	ug/L	10.0	1		06/13/17 19:37	74-85-1	
Methane	**4900**	ug/L	10.0	1		06/13/17 19:37	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 13:55	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 13:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 13:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 13:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 13:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 13:55	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 13:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 13:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 13:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 13:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 13:55	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 13:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 13:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 13:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 13:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 13:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 13:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 13:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 13:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 13:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 13:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 13:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 13:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 13:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 13:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 13:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 13:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 13:55	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 13:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 13:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 13:55	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 13:55	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 13:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 13:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 13:55	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-7 **Lab ID: 92343524013** Collected: 06/08/17 10:00 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 13:55	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 13:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 13:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 13:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 13:55	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 13:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 13:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 13:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 13:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 13:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 13:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 13:55	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 13:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 13:55	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 13:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 13:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 13:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	106	%	70-130	1		06/10/17 13:55	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		06/10/17 13:55	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/10/17 13:55	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	**2.2**	mg/L	0.50	1		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/14/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**13.6**	mg/L	1.0	1		06/11/17 05:53	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**1.8**	mg/L	0.020	1		06/10/17 00:50		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**28.7**	mg/L	1.0	1		06/16/17 17:31	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**1.4**	mg/L	1.0	1		06/14/17 15:18	7440-44-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-11 **Lab ID: 92343524014** Collected: 06/08/17 10:45 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 Headspace	Analytical Method: RSK 175 Modified							
Ethane	ND	ug/L	100	10		06/14/17 23:58	74-84-0	
Ethene	ND	ug/L	100	10		06/14/17 23:58	74-85-1	
Methane	**34400**	ug/L	100	10		06/14/17 23:58	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 14:11	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 14:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 14:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 14:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 14:11	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 14:11	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 14:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 14:11	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 14:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 14:11	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 14:11	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 14:11	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 14:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 14:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 14:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 14:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 14:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 14:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 14:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 14:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 14:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 14:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 14:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 14:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 14:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 14:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 14:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 14:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 14:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 14:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 14:11	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 14:11	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 14:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 14:11	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 14:11	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 14:11	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 14:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 14:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 14:11	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: MW-11 **Lab ID: 92343524014** Collected: 06/08/17 10:45 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Naphthalene	ND	ug/L	1.0	1		06/10/17 14:11	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 14:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 14:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 14:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/10/17 14:11	127-18-4	
Toluene	ND	ug/L	1.0	1		06/10/17 14:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 14:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 14:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/10/17 14:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 14:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 14:11	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 14:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 14:11	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 14:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 14:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 14:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	105	%	70-130	1		06/10/17 14:11	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	1		06/10/17 14:11	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		06/10/17 14:11	2037-26-5	
Iron, Ferrous	Analytical Method: SM 3500-Fe B							
Iron, Ferrous	**12.3**	mg/L	2.5	5		06/10/17 04:42		H1,N2
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D							
Sulfide	ND	mg/L	0.10	1		06/14/17 01:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0							
Sulfate	**7.4**	mg/L	1.0	1		06/11/17 06:45	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.020	1		06/10/17 00:54		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**28.9**	mg/L	1.0	1		06/16/17 17:32	16887-00-6	
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**2.3**	mg/L	1.0	1		06/14/17 15:30	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: DRUM 1 **Lab ID: 92343524015** Collected: 06/08/17 18:00 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		06/10/17 14:28	67-64-1	
Benzene	ND	ug/L	1.0	1		06/10/17 14:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		06/10/17 14:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		06/10/17 14:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		06/10/17 14:28	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/10/17 14:28	75-25-2	
Bromomethane	ND	ug/L	2.0	1		06/10/17 14:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		06/10/17 14:28	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		06/10/17 14:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/10/17 14:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/10/17 14:28	75-00-3	
Chloroform	ND	ug/L	1.0	1		06/10/17 14:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/10/17 14:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 14:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		06/10/17 14:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1		06/10/17 14:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		06/10/17 14:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		06/10/17 14:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		06/10/17 14:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		06/10/17 14:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/10/17 14:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/10/17 14:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/10/17 14:28	75-35-4	
cis-1,2-Dichloroethene	**1.4**	ug/L	1.0	1		06/10/17 14:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/10/17 14:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 14:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		06/10/17 14:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		06/10/17 14:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		06/10/17 14:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 14:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/10/17 14:28	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	1		06/10/17 14:28	108-20-3	
Ethylbenzene	ND	ug/L	1.0	1		06/10/17 14:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		06/10/17 14:28	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		06/10/17 14:28	591-78-6	
p-Isopropyltoluene	ND	ug/L	1.0	1		06/10/17 14:28	99-87-6	
Methylene Chloride	ND	ug/L	2.0	1		06/10/17 14:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		06/10/17 14:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		06/10/17 14:28	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		06/10/17 14:28	91-20-3	
Styrene	ND	ug/L	1.0	1		06/10/17 14:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 14:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/10/17 14:28	79-34-5	
Tetrachloroethene	**14.3**	ug/L	1.0	1		06/10/17 14:28	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Sample: DRUM 1 **Lab ID: 92343524015** Collected: 06/08/17 18:00 Received: 06/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	**8.5**	ug/L	1.0	1		06/10/17 14:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		06/10/17 14:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/10/17 14:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/10/17 14:28	79-00-5	
Trichloroethene	**6.2**	ug/L	1.0	1		06/10/17 14:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/10/17 14:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		06/10/17 14:28	96-18-4	
Vinyl acetate	ND	ug/L	2.0	1		06/10/17 14:28	108-05-4	
Vinyl chloride	ND	ug/L	1.0	1		06/10/17 14:28	75-01-4	
Xylene (Total)	ND	ug/L	1.0	1		06/10/17 14:28	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		06/10/17 14:28	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		06/10/17 14:28	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	107	%	70-130	1		06/10/17 14:28	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		06/10/17 14:28	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		06/10/17 14:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364653 Analysis Method: RSK 175 Modified
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007, 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

METHOD BLANK: 2021650 Matrix: Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007, 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	06/13/17 15:16	
Ethene	ug/L	ND	10.0	06/13/17 15:16	
Methane	ug/L	ND	10.0	06/13/17 15:16	

LABORATORY CONTROL SAMPLE: 2021651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	658	669	102	70-130	
Ethene	ug/L	1120	1250	111	70-130	
Methane	ug/L	396	445	113	70-130	

MATRIX SPIKE SAMPLE: 2021652

Parameter	Units	92343524008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ethane	ug/L	ND	658	774	118	70-130	
Ethene	ug/L	ND	1120	1260	112	70-130	
Methane	ug/L	706	396	1150	112	70-130	

SAMPLE DUPLICATE: 2021653

Parameter	Units	92343524009 Result	Dup Result	RPD	Qualifiers
Ethane	ug/L	ND	ND		
Ethene	ug/L	ND	ND		
Methane	ug/L	684	677	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364469 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011

METHOD BLANK: 2020751 Matrix: Water
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/14/17 14:52	

LABORATORY CONTROL SAMPLE: 2020752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.1	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020753 2020754

Parameter	Units	92343600001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	<0.20	2.5	2.5	2.4	2.3	97	93	75-125	4	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364365 Analysis Method: EPA 6010
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011

METHOD BLANK: 2020268 Matrix: Water
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	06/13/17 10:13	
Barium	ug/L	ND	5.0	06/13/17 10:13	
Cadmium	ug/L	ND	1.0	06/13/17 10:13	
Chromium	ug/L	ND	5.0	06/13/17 10:13	
Lead	ug/L	ND	5.0	06/13/17 10:13	
Selenium	ug/L	ND	10.0	06/13/17 10:13	
Silver	ug/L	ND	5.0	06/13/17 10:13	

LABORATORY CONTROL SAMPLE: 2020269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	478	96	80-120	
Barium	ug/L	500	485	97	80-120	
Cadmium	ug/L	500	480	96	80-120	
Chromium	ug/L	500	479	96	80-120	
Lead	ug/L	500	481	96	80-120	
Selenium	ug/L	500	500	100	80-120	
Silver	ug/L	250	247	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020270 2020271

Parameter	Units	92343374001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic	ug/L	ND	500	500	482	467	96	93	75-125	3	
Barium	ug/L	42.5	500	500	529	518	97	95	75-125	2	
Cadmium	ug/L	1.2	500	500	483	471	96	94	75-125	2	
Chromium	ug/L	ND	500	500	482	473	96	94	75-125	2	
Lead	ug/L	ND	500	500	477	468	95	93	75-125	2	
Selenium	ug/L	ND	500	500	496	487	99	97	75-125	2	
Silver	ug/L	ND	250	250	249	243	99	97	75-125	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364256 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

METHOD BLANK: 2019874 Matrix: Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/10/17 08:14	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/10/17 08:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/10/17 08:14	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/10/17 08:14	
1,1-Dichloroethane	ug/L	ND	1.0	06/10/17 08:14	
1,1-Dichloroethene	ug/L	ND	1.0	06/10/17 08:14	
1,1-Dichloropropene	ug/L	ND	1.0	06/10/17 08:14	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/10/17 08:14	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/10/17 08:14	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/10/17 08:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/10/17 08:14	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/10/17 08:14	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/10/17 08:14	
1,2-Dichloroethane	ug/L	ND	1.0	06/10/17 08:14	
1,2-Dichloropropane	ug/L	ND	1.0	06/10/17 08:14	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/10/17 08:14	
1,3-Dichloropropane	ug/L	ND	1.0	06/10/17 08:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/10/17 08:14	
2,2-Dichloropropane	ug/L	ND	1.0	06/10/17 08:14	
2-Butanone (MEK)	ug/L	ND	5.0	06/10/17 08:14	
2-Chlorotoluene	ug/L	ND	1.0	06/10/17 08:14	
2-Hexanone	ug/L	ND	5.0	06/10/17 08:14	
4-Chlorotoluene	ug/L	ND	1.0	06/10/17 08:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/10/17 08:14	
Acetone	ug/L	ND	25.0	06/10/17 08:14	
Benzene	ug/L	ND	1.0	06/10/17 08:14	
Bromobenzene	ug/L	ND	1.0	06/10/17 08:14	
Bromochloromethane	ug/L	ND	1.0	06/10/17 08:14	
Bromodichloromethane	ug/L	ND	1.0	06/10/17 08:14	
Bromoform	ug/L	ND	1.0	06/10/17 08:14	
Bromomethane	ug/L	ND	2.0	06/10/17 08:14	
Carbon tetrachloride	ug/L	ND	1.0	06/10/17 08:14	
Chlorobenzene	ug/L	ND	1.0	06/10/17 08:14	
Chloroethane	ug/L	ND	1.0	06/10/17 08:14	
Chloroform	ug/L	ND	1.0	06/10/17 08:14	
Chloromethane	ug/L	ND	1.0	06/10/17 08:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/10/17 08:14	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/10/17 08:14	
Dibromochloromethane	ug/L	ND	1.0	06/10/17 08:14	
Dibromomethane	ug/L	ND	1.0	06/10/17 08:14	
Dichlorodifluoromethane	ug/L	ND	1.0	06/10/17 08:14	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

METHOD BLANK: 2019874 Matrix: Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	06/10/17 08:14	
Ethylbenzene	ug/L	ND	1.0	06/10/17 08:14	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/10/17 08:14	
m&p-Xylene	ug/L	ND	2.0	06/10/17 08:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/10/17 08:14	
Methylene Chloride	ug/L	ND	2.0	06/10/17 08:14	
Naphthalene	ug/L	ND	1.0	06/10/17 08:14	
o-Xylene	ug/L	ND	1.0	06/10/17 08:14	
p-Isopropyltoluene	ug/L	ND	1.0	06/10/17 08:14	
Styrene	ug/L	ND	1.0	06/10/17 08:14	
Tetrachloroethene	ug/L	ND	1.0	06/10/17 08:14	
Toluene	ug/L	ND	1.0	06/10/17 08:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/10/17 08:14	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/10/17 08:14	
Trichloroethene	ug/L	ND	1.0	06/10/17 08:14	
Trichlorofluoromethane	ug/L	ND	1.0	06/10/17 08:14	
Vinyl acetate	ug/L	ND	2.0	06/10/17 08:14	
Vinyl chloride	ug/L	ND	1.0	06/10/17 08:14	
Xylene (Total)	ug/L	ND	1.0	06/10/17 08:14	
1,2-Dichloroethane-d4 (S)	%	90	70-130	06/10/17 08:14	
4-Bromofluorobenzene (S)	%	92	70-130	06/10/17 08:14	
Toluene-d8 (S)	%	102	70-130	06/10/17 08:14	

LABORATORY CONTROL SAMPLE: 2019875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.9	96	70-130	
1,1,1-Trichloroethane	ug/L	50	40.9	82	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.7	91	70-130	
1,1,2-Trichloroethane	ug/L	50	49.6	99	70-130	
1,1-Dichloroethane	ug/L	50	42.2	84	70-130	
1,1-Dichloroethene	ug/L	50	42.2	84	70-132	
1,1-Dichloropropene	ug/L	50	42.8	86	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.3	107	70-135	
1,2,3-Trichloropropane	ug/L	50	44.5	89	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.9	100	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	48.7	97	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	46.1	92	70-130	
1,2-Dichloroethane	ug/L	50	39.0	78	70-130	
1,2-Dichloropropane	ug/L	50	47.8	96	70-130	
1,3-Dichlorobenzene	ug/L	50	45.4	91	70-130	
1,3-Dichloropropane	ug/L	50	46.9	94	70-130	
1,4-Dichlorobenzene	ug/L	50	45.1	90	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

LABORATORY CONTROL SAMPLE: 2019875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	32.1	64	58-145	
2-Butanone (MEK)	ug/L	100	81.6	82	70-145	
2-Chlorotoluene	ug/L	50	42.8	86	70-130	
2-Hexanone	ug/L	100	82.5	82	70-144	
4-Chlorotoluene	ug/L	50	42.0	84	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	85.7	86	70-140	
Acetone	ug/L	100	81.4	81	50-175	
Benzene	ug/L	50	47.0	94	70-130	
Bromobenzene	ug/L	50	46.7	93	70-130	
Bromochloromethane	ug/L	50	49.5	99	70-130	
Bromodichloromethane	ug/L	50	45.5	91	70-130	
Bromoform	ug/L	50	42.5	85	70-130	
Bromomethane	ug/L	50	38.2	76	54-130	
Carbon tetrachloride	ug/L	50	40.8	82	70-132	
Chlorobenzene	ug/L	50	46.7	93	70-130	
Chloroethane	ug/L	50	47.7	95	64-134	
Chloroform	ug/L	50	43.7	87	70-130	
Chloromethane	ug/L	50	44.3	89	64-130	
cis-1,2-Dichloroethene	ug/L	50	42.6	85	70-131	
cis-1,3-Dichloropropene	ug/L	50	45.5	91	70-130	
Dibromochloromethane	ug/L	50	46.7	93	70-130	
Dibromomethane	ug/L	50	51.9	104	70-131	
Dichlorodifluoromethane	ug/L	50	40.1	80	56-130	
Diisopropyl ether	ug/L	50	41.5	83	70-130	
Ethylbenzene	ug/L	50	44.0	88	70-130	
Hexachloro-1,3-butadiene	ug/L	50	45.8	92	70-130	
m&p-Xylene	ug/L	100	86.8	87	70-130	
Methyl-tert-butyl ether	ug/L	50	46.7	93	70-130	
Methylene Chloride	ug/L	50	43.2	86	63-130	
Naphthalene	ug/L	50	55.2	110	70-138	
o-Xylene	ug/L	50	46.2	92	70-130	
p-Isopropyltoluene	ug/L	50	41.5	83	70-130	
Styrene	ug/L	50	46.6	93	70-130	
Tetrachloroethene	ug/L	50	42.0	84	70-130	
Toluene	ug/L	50	48.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	50	41.4	83	70-130	
trans-1,3-Dichloropropene	ug/L	50	45.2	90	70-132	
Trichloroethene	ug/L	50	47.2	94	70-130	
Trichlorofluoromethane	ug/L	50	39.9	80	62-133	
Vinyl acetate	ug/L	100	86.9	87	66-157	
Vinyl chloride	ug/L	50	41.9	84	50-150	
Xylene (Total)	ug/L	150	133	89	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			93	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

MATRIX SPIKE SAMPLE: 2019876

Parameter	Units	92343524001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20.2	101	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	19.4	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.5	98	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	ND	20	20.2	101	70-130	
1,1-Dichloroethene	ug/L	ND	20	20.4	102	70-166	
1,1-Dichloropropene	ug/L	ND	20	20.2	101	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	23.5	118	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	19.6	98	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	22.2	111	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.7	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20.4	102	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	19.9	100	70-130	
1,2-Dichloroethane	ug/L	ND	20	17.5	88	70-130	
1,2-Dichloropropane	ug/L	ND	20	22.2	111	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	20.0	100	70-130	
1,3-Dichloropropane	ug/L	ND	20	20.3	101	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	19.7	99	70-130	
2,2-Dichloropropane	ug/L	ND	20	15.8	79	70-130	
2-Butanone (MEK)	ug/L	ND	40	37.8	94	70-130	
2-Chlorotoluene	ug/L	ND	20	19.1	96	70-130	
2-Hexanone	ug/L	ND	40	36.1	90	70-130	
4-Chlorotoluene	ug/L	ND	20	18.6	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	36.6	92	70-130	
Acetone	ug/L	ND	40	46.2	115	70-130	
Benzene	ug/L	ND	20	21.6	108	70-148	
Bromobenzene	ug/L	ND	20	20.3	101	70-130	
Bromochloromethane	ug/L	ND	20	22.3	112	70-130	
Bromodichloromethane	ug/L	ND	20	20.6	103	70-130	
Bromoform	ug/L	ND	20	17.6	88	70-130	
Bromomethane	ug/L	ND	20	17.2	86	70-130	
Carbon tetrachloride	ug/L	ND	20	19.5	98	70-130	
Chlorobenzene	ug/L	ND	20	21.3	106	70-146	
Chloroethane	ug/L	ND	20	18.3	92	70-130	
Chloroform	ug/L	ND	20	20.0	100	70-130	
Chloromethane	ug/L	ND	20	19.0	95	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	20.1	100	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.3	97	70-130	
Dibromochloromethane	ug/L	ND	20	19.6	98	70-130	
Dibromomethane	ug/L	ND	20	24.0	120	70-130	
Dichlorodifluoromethane	ug/L	ND	20	19.5	98	70-130	
Diisopropyl ether	ug/L	ND	20	18.3	91	70-130	
Ethylbenzene	ug/L	ND	20	20.3	102	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	22.5	112	70-130	
m&p-Xylene	ug/L	ND	40	39.7	99	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.4	102	70-130	
Methylene Chloride	ug/L	ND	20	16.3	82	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

MATRIX SPIKE SAMPLE: 2019876

Parameter	Units	92343524001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	24.2	121	70-130	
o-Xylene	ug/L	ND	20	20.9	105	70-130	
p-Isopropyltoluene	ug/L	ND	20	19.0	95	70-130	
Styrene	ug/L	ND	20	20.9	105	70-130	
Tetrachloroethene	ug/L	ND	20	19.5	97	70-130	
Toluene	ug/L	ND	20	21.8	109	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	19.6	98	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.0	90	70-130	
Trichloroethene	ug/L	ND	20	21.9	109	69-151	
Trichlorofluoromethane	ug/L	ND	20	19.8	99	70-130	
Vinyl acetate	ug/L	ND	40	29.0	72	70-130	
Vinyl chloride	ug/L	ND	20	20.5	103	70-130	
1,2-Dichloroethane-d4 (S)	%				87	70-130	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2019877

Parameter	Units	92343524002 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

SAMPLE DUPLICATE: 2019877

Parameter	Units	92343524002 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	89	88	0	
4-Bromofluorobenzene (S)	%	90	90	0	
Toluene-d8 (S)	%	101	100	1	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364294 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014, 92343524015

METHOD BLANK: 2020027 Matrix: Water
Associated Lab Samples: 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014, 92343524015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/10/17 10:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/10/17 10:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/10/17 10:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/10/17 10:35	
1,1-Dichloroethane	ug/L	ND	1.0	06/10/17 10:35	
1,1-Dichloroethene	ug/L	ND	1.0	06/10/17 10:35	
1,1-Dichloropropene	ug/L	ND	1.0	06/10/17 10:35	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/10/17 10:35	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/10/17 10:35	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/10/17 10:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/10/17 10:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/10/17 10:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/10/17 10:35	
1,2-Dichloroethane	ug/L	ND	1.0	06/10/17 10:35	
1,2-Dichloropropane	ug/L	ND	1.0	06/10/17 10:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/10/17 10:35	
1,3-Dichloropropane	ug/L	ND	1.0	06/10/17 10:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/10/17 10:35	
2,2-Dichloropropane	ug/L	ND	1.0	06/10/17 10:35	
2-Butanone (MEK)	ug/L	ND	5.0	06/10/17 10:35	
2-Chlorotoluene	ug/L	ND	1.0	06/10/17 10:35	
2-Hexanone	ug/L	ND	5.0	06/10/17 10:35	
4-Chlorotoluene	ug/L	ND	1.0	06/10/17 10:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/10/17 10:35	
Acetone	ug/L	ND	25.0	06/10/17 10:35	
Benzene	ug/L	ND	1.0	06/10/17 10:35	
Bromobenzene	ug/L	ND	1.0	06/10/17 10:35	
Bromochloromethane	ug/L	ND	1.0	06/10/17 10:35	
Bromodichloromethane	ug/L	ND	1.0	06/10/17 10:35	
Bromoform	ug/L	ND	1.0	06/10/17 10:35	
Bromomethane	ug/L	ND	2.0	06/10/17 10:35	
Carbon tetrachloride	ug/L	ND	1.0	06/10/17 10:35	
Chlorobenzene	ug/L	ND	1.0	06/10/17 10:35	
Chloroethane	ug/L	ND	1.0	06/10/17 10:35	
Chloroform	ug/L	ND	1.0	06/10/17 10:35	
Chloromethane	ug/L	ND	1.0	06/10/17 10:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/10/17 10:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/10/17 10:35	
Dibromochloromethane	ug/L	ND	1.0	06/10/17 10:35	
Dibromomethane	ug/L	ND	1.0	06/10/17 10:35	
Dichlorodifluoromethane	ug/L	ND	1.0	06/10/17 10:35	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

METHOD BLANK: 2020027 Matrix: Water
Associated Lab Samples: 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014, 92343524015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	06/10/17 10:35	
Ethylbenzene	ug/L	ND	1.0	06/10/17 10:35	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/10/17 10:35	
m&p-Xylene	ug/L	ND	2.0	06/10/17 10:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/10/17 10:35	
Methylene Chloride	ug/L	ND	2.0	06/10/17 10:35	
Naphthalene	ug/L	ND	1.0	06/10/17 10:35	
o-Xylene	ug/L	ND	1.0	06/10/17 10:35	
p-Isopropyltoluene	ug/L	ND	1.0	06/10/17 10:35	
Styrene	ug/L	ND	1.0	06/10/17 10:35	
Tetrachloroethene	ug/L	ND	1.0	06/10/17 10:35	
Toluene	ug/L	ND	1.0	06/10/17 10:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/10/17 10:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/10/17 10:35	
Trichloroethene	ug/L	ND	1.0	06/10/17 10:35	
Trichlorofluoromethane	ug/L	ND	1.0	06/10/17 10:35	
Vinyl acetate	ug/L	ND	2.0	06/10/17 10:35	
Vinyl chloride	ug/L	ND	1.0	06/10/17 10:35	
Xylene (Total)	ug/L	ND	1.0	06/10/17 10:35	
1,2-Dichloroethane-d4 (S)	%	106	70-130	06/10/17 10:35	
4-Bromofluorobenzene (S)	%	103	70-130	06/10/17 10:35	
Toluene-d8 (S)	%	102	70-130	06/10/17 10:35	

LABORATORY CONTROL SAMPLE: 2020028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.0	96	70-130	
1,1,1-Trichloroethane	ug/L	50	44.4	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.1	94	70-130	
1,1,2-Trichloroethane	ug/L	50	45.6	91	70-130	
1,1-Dichloroethane	ug/L	50	45.1	90	70-130	
1,1-Dichloroethene	ug/L	50	49.1	98	70-132	
1,1-Dichloropropene	ug/L	50	47.3	95	70-130	
1,2,3-Trichlorobenzene	ug/L	50	48.2	96	70-135	
1,2,3-Trichloropropane	ug/L	50	46.7	93	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.7	93	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	51.3	103	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	47.3	95	70-130	
1,2-Dichlorobenzene	ug/L	50	46.2	92	70-130	
1,2-Dichloroethane	ug/L	50	42.3	85	70-130	
1,2-Dichloropropane	ug/L	50	43.6	87	70-130	
1,3-Dichlorobenzene	ug/L	50	45.3	91	70-130	
1,3-Dichloropropane	ug/L	50	46.8	94	70-130	
1,4-Dichlorobenzene	ug/L	50	46.4	93	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

LABORATORY CONTROL SAMPLE: 2020028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	44.8	90	58-145	
2-Butanone (MEK)	ug/L	100	104	104	70-145	
2-Chlorotoluene	ug/L	50	46.5	93	70-130	
2-Hexanone	ug/L	100	99.8	100	70-144	
4-Chlorotoluene	ug/L	50	44.7	89	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.0	95	70-140	
Acetone	ug/L	100	114	114	50-175	
Benzene	ug/L	50	44.2	88	70-130	
Bromobenzene	ug/L	50	46.4	93	70-130	
Bromochloromethane	ug/L	50	45.6	91	70-130	
Bromodichloromethane	ug/L	50	44.2	88	70-130	
Bromoform	ug/L	50	42.6	85	70-130	
Bromomethane	ug/L	50	44.8	90	54-130	
Carbon tetrachloride	ug/L	50	44.5	89	70-132	
Chlorobenzene	ug/L	50	45.9	92	70-130	
Chloroethane	ug/L	50	42.3	85	64-134	
Chloroform	ug/L	50	44.1	88	70-130	
Chloromethane	ug/L	50	49.1	98	64-130	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	70-131	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	
Dibromochloromethane	ug/L	50	48.8	98	70-130	
Dibromomethane	ug/L	50	41.1	82	70-131	
Dichlorodifluoromethane	ug/L	50	46.0	92	56-130	
Diisopropyl ether	ug/L	50	50.4	101	70-130	
Ethylbenzene	ug/L	50	46.2	92	70-130	
Hexachloro-1,3-butadiene	ug/L	50	47.5	95	70-130	
m&p-Xylene	ug/L	100	89.9	90	70-130	
Methyl-tert-butyl ether	ug/L	50	47.2	94	70-130	
Methylene Chloride	ug/L	50	45.3	91	63-130	
Naphthalene	ug/L	50	49.1	98	70-138	
o-Xylene	ug/L	50	44.9	90	70-130	
p-Isopropyltoluene	ug/L	50	46.9	94	70-130	
Styrene	ug/L	50	46.1	92	70-130	
Tetrachloroethene	ug/L	50	45.3	91	70-130	
Toluene	ug/L	50	44.8	90	70-130	
trans-1,2-Dichloroethene	ug/L	50	45.3	91	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	70-132	
Trichloroethene	ug/L	50	44.4	89	70-130	
Trichlorofluoromethane	ug/L	50	46.3	93	62-133	
Vinyl acetate	ug/L	100	96.6	97	66-157	
Vinyl chloride	ug/L	50	45.7	91	50-150	
Xylene (Total)	ug/L	150	135	90	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

MATRIX SPIKE SAMPLE: 2020030

Parameter	Units	92343524010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.4	97	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	20.9	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.6	98	70-130	
1,1-Dichloroethane	ug/L	ND	20	20.6	103	70-130	
1,1-Dichloroethene	ug/L	1.0	20	23.0	110	70-166	
1,1-Dichloropropene	ug/L	ND	20	23.1	115	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.8	94	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	18.7	93	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.2	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.2	91	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	19.7	99	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	19.2	96	70-130	
1,2-Dichloroethane	ug/L	ND	20	19.6	98	70-130	
1,2-Dichloropropane	ug/L	ND	20	21.0	105	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	19.4	97	70-130	
1,3-Dichloropropane	ug/L	ND	20	20.5	102	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	19.2	96	70-130	
2,2-Dichloropropane	ug/L	ND	20	18.9	95	70-130	
2-Butanone (MEK)	ug/L	ND	40	40.9	102	70-130	
2-Chlorotoluene	ug/L	ND	20	19.6	98	70-130	
2-Hexanone	ug/L	ND	40	39.7	99	70-130	
4-Chlorotoluene	ug/L	ND	20	19.5	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	38.0	95	70-130	
Acetone	ug/L	ND	40	45.4	113	70-130	
Benzene	ug/L	ND	20	21.3	107	70-148	
Bromobenzene	ug/L	ND	20	19.4	97	70-130	
Bromochloromethane	ug/L	ND	20	20.4	102	70-130	
Bromodichloromethane	ug/L	ND	20	20.6	103	70-130	
Bromoform	ug/L	ND	20	18.6	93	70-130	
Bromomethane	ug/L	ND	20	16.3	81	70-130	
Carbon tetrachloride	ug/L	ND	20	21.7	108	70-130	
Chlorobenzene	ug/L	ND	20	20.5	102	70-146	
Chloroethane	ug/L	ND	20	19.9	99	70-130	
Chloroform	ug/L	ND	20	20.8	104	70-130	
Chloromethane	ug/L	ND	20	19.3	95	70-130	
cis-1,2-Dichloroethene	ug/L	5.4	20	26.0	103	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	19.9	99	70-130	
Dibromochloromethane	ug/L	ND	20	19.9	100	70-130	
Dibromomethane	ug/L	ND	20	18.2	91	70-130	
Dichlorodifluoromethane	ug/L	ND	20	16.6	83	70-130	
Diisopropyl ether	ug/L	ND	20	21.7	109	70-130	
Ethylbenzene	ug/L	ND	20	20.2	101	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	18.7	93	70-130	
m&p-Xylene	ug/L	ND	40	38.6	96	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.6	103	70-130	
Methylene Chloride	ug/L	ND	20	20.0	100	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

MATRIX SPIKE SAMPLE: 2020030

Parameter	Units	92343524010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	18.8	94	70-130	
o-Xylene	ug/L	ND	20	19.8	99	70-130	
p-Isopropyltoluene	ug/L	ND	20	19.6	98	70-130	
Styrene	ug/L	ND	20	7.8	39	70-130	M1
Tetrachloroethene	ug/L	4.2	20	23.7	97	70-130	
Toluene	ug/L	ND	20	20.2	101	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	21.5	104	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.1	95	70-130	
Trichloroethene	ug/L	16.7	20	40.5	119	69-151	
Trichlorofluoromethane	ug/L	ND	20	20.8	104	70-130	
Vinyl acetate	ug/L	ND	40	25.3	63	70-130	M1
Vinyl chloride	ug/L	ND	20	19.0	95	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2020029

Parameter	Units	92343524009 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	.67J		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	1.6J		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	23.4J		
Benzene	ug/L	ND	ND		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

SAMPLE DUPLICATE: 2020029

Parameter	Units	92343524009 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	1.6J		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	2.5	2.4	5	
cis-1,2-Dichloroethene	ug/L	11.6	11.0	5	
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	ND		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	73.5	78.2	6	
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	11.7	11.3	4	
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	64.3	66.1	3	
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	113	110	3	
4-Bromofluorobenzene (S)	%	107	109	2	
Toluene-d8 (S)	%	99	99	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364481
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92343524008

METHOD BLANK: 2020811
Matrix: Water
Associated Lab Samples: 92343524008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/12/17 18:29	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/12/17 18:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/12/17 18:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/12/17 18:29	
1,1-Dichloroethane	ug/L	ND	1.0	06/12/17 18:29	
1,1-Dichloroethene	ug/L	ND	1.0	06/12/17 18:29	
1,1-Dichloropropene	ug/L	ND	1.0	06/12/17 18:29	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/12/17 18:29	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/12/17 18:29	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/12/17 18:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	06/12/17 18:29	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/12/17 18:29	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/12/17 18:29	
1,2-Dichloroethane	ug/L	ND	1.0	06/12/17 18:29	
1,2-Dichloropropane	ug/L	ND	1.0	06/12/17 18:29	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/12/17 18:29	
1,3-Dichloropropane	ug/L	ND	1.0	06/12/17 18:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/12/17 18:29	
2,2-Dichloropropane	ug/L	ND	1.0	06/12/17 18:29	
2-Butanone (MEK)	ug/L	ND	5.0	06/12/17 18:29	
2-Chlorotoluene	ug/L	ND	1.0	06/12/17 18:29	
2-Hexanone	ug/L	ND	5.0	06/12/17 18:29	
4-Chlorotoluene	ug/L	ND	1.0	06/12/17 18:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	06/12/17 18:29	
Acetone	ug/L	ND	25.0	06/12/17 18:29	
Benzene	ug/L	ND	1.0	06/12/17 18:29	
Bromobenzene	ug/L	ND	1.0	06/12/17 18:29	
Bromochloromethane	ug/L	ND	1.0	06/12/17 18:29	
Bromodichloromethane	ug/L	ND	1.0	06/12/17 18:29	
Bromoform	ug/L	ND	1.0	06/12/17 18:29	
Bromomethane	ug/L	ND	2.0	06/12/17 18:29	
Carbon tetrachloride	ug/L	ND	1.0	06/12/17 18:29	
Chlorobenzene	ug/L	ND	1.0	06/12/17 18:29	
Chloroethane	ug/L	ND	1.0	06/12/17 18:29	
Chloroform	ug/L	ND	1.0	06/12/17 18:29	
Chloromethane	ug/L	ND	1.0	06/12/17 18:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/12/17 18:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/12/17 18:29	
Dibromochloromethane	ug/L	ND	1.0	06/12/17 18:29	
Dibromomethane	ug/L	ND	1.0	06/12/17 18:29	
Dichlorodifluoromethane	ug/L	ND	1.0	06/12/17 18:29	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

METHOD BLANK: 2020811 Matrix: Water
Associated Lab Samples: 92343524008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	1.0	06/12/17 18:29	
Ethylbenzene	ug/L	ND	1.0	06/12/17 18:29	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/12/17 18:29	
m&p-Xylene	ug/L	ND	2.0	06/12/17 18:29	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/12/17 18:29	
Methylene Chloride	ug/L	ND	2.0	06/12/17 18:29	
Naphthalene	ug/L	ND	1.0	06/12/17 18:29	
o-Xylene	ug/L	ND	1.0	06/12/17 18:29	
p-Isopropyltoluene	ug/L	ND	1.0	06/12/17 18:29	
Styrene	ug/L	ND	1.0	06/12/17 18:29	
Tetrachloroethene	ug/L	ND	1.0	06/12/17 18:29	
Toluene	ug/L	ND	1.0	06/12/17 18:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/12/17 18:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/12/17 18:29	
Trichloroethene	ug/L	ND	1.0	06/12/17 18:29	
Trichlorofluoromethane	ug/L	ND	1.0	06/12/17 18:29	
Vinyl acetate	ug/L	ND	2.0	06/12/17 18:29	
Vinyl chloride	ug/L	ND	1.0	06/12/17 18:29	
Xylene (Total)	ug/L	ND	1.0	06/12/17 18:29	
1,2-Dichloroethane-d4 (S)	%	95	70-130	06/12/17 18:29	
4-Bromofluorobenzene (S)	%	123	70-130	06/12/17 18:29	
Toluene-d8 (S)	%	99	70-130	06/12/17 18:29	

LABORATORY CONTROL SAMPLE: 2020812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.5	117	70-130	
1,1,1-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	58.1	116	70-130	
1,1,2-Trichloroethane	ug/L	50	52.4	105	70-130	
1,1-Dichloroethane	ug/L	50	52.0	104	70-130	
1,1-Dichloroethene	ug/L	50	51.0	102	70-132	
1,1-Dichloropropene	ug/L	50	55.7	111	70-130	
1,2,3-Trichlorobenzene	ug/L	50	53.4	107	70-135	
1,2,3-Trichloropropane	ug/L	50	53.6	107	70-130	
1,2,4-Trichlorobenzene	ug/L	50	52.9	106	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	52.1	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	56.4	113	70-130	
1,2-Dichlorobenzene	ug/L	50	52.4	105	70-130	
1,2-Dichloroethane	ug/L	50	49.8	100	70-130	
1,2-Dichloropropane	ug/L	50	52.3	105	70-130	
1,3-Dichlorobenzene	ug/L	50	54.1	108	70-130	
1,3-Dichloropropane	ug/L	50	56.0	112	70-130	
1,4-Dichlorobenzene	ug/L	50	53.8	108	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

LABORATORY CONTROL SAMPLE: 2020812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	53.3	107	58-145	
2-Butanone (MEK)	ug/L	100	127	127	70-145	
2-Chlorotoluene	ug/L	50	54.9	110	70-130	
2-Hexanone	ug/L	100	115	115	70-144	
4-Chlorotoluene	ug/L	50	52.0	104	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-140	
Acetone	ug/L	100	127	127	50-175	
Benzene	ug/L	50	55.3	111	70-130	
Bromobenzene	ug/L	50	51.6	103	70-130	
Bromochloromethane	ug/L	50	52.2	104	70-130	
Bromodichloromethane	ug/L	50	50.8	102	70-130	
Bromoform	ug/L	50	45.4	91	70-130	
Bromomethane	ug/L	50	60.5	121	54-130	
Carbon tetrachloride	ug/L	50	51.2	102	70-132	
Chlorobenzene	ug/L	50	54.1	108	70-130	
Chloroethane	ug/L	50	43.4	87	64-134	
Chloroform	ug/L	50	53.0	106	70-130	
Chloromethane	ug/L	50	59.3	119	64-130	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	70-131	
cis-1,3-Dichloropropene	ug/L	50	60.2	120	70-130	
Dibromochloromethane	ug/L	50	49.3	99	70-130	
Dibromomethane	ug/L	50	48.7	97	70-131	
Dichlorodifluoromethane	ug/L	50	46.1	92	56-130	
Diisopropyl ether	ug/L	50	57.1	114	70-130	
Ethylbenzene	ug/L	50	52.8	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	55.2	110	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	57.0	114	70-130	
Methylene Chloride	ug/L	50	55.6	111	63-130	
Naphthalene	ug/L	50	54.6	109	70-138	
o-Xylene	ug/L	50	53.3	107	70-130	
p-Isopropyltoluene	ug/L	50	54.8	110	70-130	
Styrene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	55.2	110	70-130	
Toluene	ug/L	50	50.3	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.7	105	70-132	
Trichloroethene	ug/L	50	51.8	104	70-130	
Trichlorofluoromethane	ug/L	50	51.4	103	62-133	
Vinyl acetate	ug/L	100	102	102	66-157	
Vinyl chloride	ug/L	50	51.8	104	50-150	
Xylene (Total)	ug/L	150	157	104	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

MATRIX SPIKE SAMPLE: 2022211

Parameter	Units	92343762008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	100	112	112	70-130	
1,1,1-Trichloroethane	ug/L	ND	100	112	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	109	109	70-130	
1,1,2-Trichloroethane	ug/L	ND	100	104	104	70-130	
1,1-Dichloroethane	ug/L	ND	100	107	107	70-130	
1,1-Dichloroethene	ug/L	ND	100	107	107	70-166	
1,1-Dichloropropene	ug/L	ND	100	119	119	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	100	105	105	70-130	
1,2,3-Trichloropropane	ug/L	156	100	363	207	70-130	M1
1,2,4-Trichlorobenzene	ug/L	ND	100	105	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	98.3	98	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	100	110	110	70-130	
1,2-Dichlorobenzene	ug/L	7.0	100	115	108	70-130	
1,2-Dichloroethane	ug/L	6.7	100	117	111	70-130	
1,2-Dichloropropane	ug/L	ND	100	121	121	70-130	
1,3-Dichlorobenzene	ug/L	ND	100	104	104	70-130	
1,3-Dichloropropane	ug/L	ND	100	112	112	70-130	
1,4-Dichlorobenzene	ug/L	ND	100	109	109	70-130	
2,2-Dichloropropane	ug/L	ND	100	115	115	70-130	
2-Butanone (MEK)	ug/L	ND	200	226	113	70-130	
2-Chlorotoluene	ug/L	ND	100	117	117	70-130	
2-Hexanone	ug/L	ND	200	191	95	70-130	
4-Chlorotoluene	ug/L	ND	100	105	105	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	36.2	200	224	94	70-130	
Acetone	ug/L	ND	200	219	110	70-130	
Benzene	ug/L	454	100	617	163	70-148	M1
Bromobenzene	ug/L	ND	100	106	106	70-130	
Bromochloromethane	ug/L	ND	100	104	104	70-130	
Bromodichloromethane	ug/L	ND	100	107	107	70-130	
Bromoform	ug/L	ND	100	94.8	95	70-130	
Bromomethane	ug/L	ND	100	104	104	70-130	
Carbon tetrachloride	ug/L	ND	100	106	106	70-130	
Chlorobenzene	ug/L	ND	100	116	116	70-146	
Chloroethane	ug/L	ND	100	99.3	99	70-130	
Chloroform	ug/L	ND	100	109	109	70-130	
Chloromethane	ug/L	ND	100	187	187	70-130	M1
cis-1,2-Dichloroethene	ug/L	ND	100	108	108	70-130	
cis-1,3-Dichloropropene	ug/L	ND	100	104	104	70-130	
Dibromochloromethane	ug/L	ND	100	94.8	95	70-130	
Dibromomethane	ug/L	ND	100	109	109	70-130	
Dichlorodifluoromethane	ug/L	ND	100	48.8	49	70-130	M1
Diisopropyl ether	ug/L	121	100	269	148	70-130	M1
Ethylbenzene	ug/L	241	100	412	171	70-130	M1
Hexachloro-1,3-butadiene	ug/L	ND	100	109	109	70-130	
m&p-Xylene	ug/L	839	200	1290	228	70-130	M1
Methyl-tert-butyl ether	ug/L	ND	100	114	114	70-130	
Methylene Chloride	ug/L	ND	100	115	115	70-130	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

MATRIX SPIKE SAMPLE: 2022211

Parameter	Units	92343762008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	320	100	465	144	70-130	M1
o-Xylene	ug/L	411	100	657	246	70-130	M1
p-Isopropyltoluene	ug/L	ND	100	128	128	70-130	
Styrene	ug/L	6.4	100	117	111	70-130	
Tetrachloroethene	ug/L	ND	100	111	111	70-130	
Toluene	ug/L	358	100	499	141	70-155	
trans-1,2-Dichloroethene	ug/L	ND	100	112	112	70-130	
trans-1,3-Dichloropropene	ug/L	ND	100	100	100	70-130	
Trichloroethene	ug/L	ND	100	113	113	69-151	
Trichlorofluoromethane	ug/L	ND	100	108	108	70-130	
Vinyl acetate	ug/L	ND	200	203	101	70-130	
Vinyl chloride	ug/L	ND	100	86.6	87	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				87	70-130	

SAMPLE DUPLICATE: 2022210

Parameter	Units	92343762001 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		
1,1,1-Trichloroethane	ug/L	ND	ND		
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		
1,1,2-Trichloroethane	ug/L	ND	ND		
1,1-Dichloroethane	ug/L	ND	ND		
1,1-Dichloroethene	ug/L	ND	ND		
1,1-Dichloropropene	ug/L	ND	ND		
1,2,3-Trichlorobenzene	ug/L	ND	ND		
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1,2-Dichlorobenzene	ug/L	ND	ND		
1,2-Dichloroethane	ug/L	ND	ND		
1,2-Dichloropropane	ug/L	ND	ND		
1,3-Dichlorobenzene	ug/L	ND	ND		
1,3-Dichloropropane	ug/L	ND	ND		
1,4-Dichlorobenzene	ug/L	ND	ND		
2,2-Dichloropropane	ug/L	ND	ND		
2-Butanone (MEK)	ug/L	ND	ND		
2-Chlorotoluene	ug/L	ND	ND		
2-Hexanone	ug/L	ND	ND		
4-Chlorotoluene	ug/L	ND	ND		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		
Acetone	ug/L	ND	ND		
Benzene	ug/L	ND	ND		

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

SAMPLE DUPLICATE: 2022210

Parameter	Units	92343762001 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	ND		
Bromochloromethane	ug/L	ND	ND		
Bromodichloromethane	ug/L	ND	ND		
Bromoform	ug/L	ND	ND		
Bromomethane	ug/L	ND	ND		
Carbon tetrachloride	ug/L	ND	ND		
Chlorobenzene	ug/L	ND	ND		
Chloroethane	ug/L	ND	ND		
Chloroform	ug/L	ND	ND		
Chloromethane	ug/L	ND	ND		
cis-1,2-Dichloroethene	ug/L	ND	ND		
cis-1,3-Dichloropropene	ug/L	ND	ND		
Dibromochloromethane	ug/L	ND	ND		
Dibromomethane	ug/L	ND	ND		
Dichlorodifluoromethane	ug/L	ND	ND		
Diisopropyl ether	ug/L	ND	ND		
Ethylbenzene	ug/L	ND	ND		
Hexachloro-1,3-butadiene	ug/L	ND	.97J		
m&p-Xylene	ug/L	ND	ND		
Methyl-tert-butyl ether	ug/L	ND	ND		
Methylene Chloride	ug/L	ND	ND		
Naphthalene	ug/L	ND	ND		
o-Xylene	ug/L	ND	ND		
p-Isopropyltoluene	ug/L	ND	ND		
Styrene	ug/L	ND	ND		
Tetrachloroethene	ug/L	ND	ND		
Toluene	ug/L	ND	ND		
trans-1,2-Dichloroethene	ug/L	ND	ND		
trans-1,3-Dichloropropene	ug/L	ND	ND		
Trichloroethene	ug/L	ND	ND		
Trichlorofluoromethane	ug/L	ND	ND		
Vinyl acetate	ug/L	ND	ND		
Vinyl chloride	ug/L	ND	ND		
Xylene (Total)	ug/L	ND	ND		
1,2-Dichloroethane-d4 (S)	%	93	87	7	
4-Bromofluorobenzene (S)	%	93	101	9	
Toluene-d8 (S)	%	98	103	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364284 Analysis Method: SM 3500-Fe B
QC Batch Method: SM 3500-Fe B Analysis Description: Iron, Ferrous
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007, 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

METHOD BLANK: 2019987 Matrix: Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007, 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	06/10/17 04:42	N2

LABORATORY CONTROL SAMPLE: 2019988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.5	103	90-110	N2

SAMPLE DUPLICATE: 2019989

Parameter	Units	92343305002 Result	Dup Result	RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		H3,N2

SAMPLE DUPLICATE: 2019990

Parameter	Units	92343524007 Result	Dup Result	RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		H1,N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364495 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006

METHOD BLANK: 2020869 Matrix: Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/13/17 01:45	

LABORATORY CONTROL SAMPLE: 2020870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.46	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020871 2020872

Parameter	Units	92343417006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.45	0.46	87	89	80-120	3	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020873 2020874

Parameter	Units	92343417016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.44	0.46	87	92	80-120	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364500 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92343524007

METHOD BLANK: 2020875 Matrix: Water
Associated Lab Samples: 92343524007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/13/17 01:00	

LABORATORY CONTROL SAMPLE: 2020876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.46	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020877 2020878

Parameter	Units	92343524007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.15	0.17	25	29	80-120	11	M1,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020879 2020880

Parameter	Units	92343589010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.52	0.54	102	106	80-120	4	

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364696 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

METHOD BLANK: 2021888 Matrix: Water
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	06/14/17 01:45	

LABORATORY CONTROL SAMPLE: 2021889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.49	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2021890 2021891

Parameter	Units	92343718002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.59	0.58	118	116	80-120	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2021892 2021893

Parameter	Units	92343524008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.24	0.24	47	48	80-120	1	M1

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364291 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

METHOD BLANK: 2020011 Matrix: Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	06/10/17 11:47	

LABORATORY CONTROL SAMPLE: 2020012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020015 2020016

Parameter	Units	92343524006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	mg/L	14.8	50	50	63.8	65.1	98	101	90-110	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020039 2020040

Parameter	Units	92343485001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	mg/L	1830	50	50	1860	1860	59	57	90-110	0	M6

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364314 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

METHOD BLANK: 2020086 Matrix: Water
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	06/11/17 00:44	

LABORATORY CONTROL SAMPLE: 2020087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020088 2020089

Parameter	Units	92342553006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	mg/L	2060J ug/L	50	50	53.6	54.7	103	105	90-110	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020090 2020091

Parameter	Units	92343524013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Sulfate	mg/L	13.6	50	50	67.1	65.8	107	104	90-110	2	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364105 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

METHOD BLANK: 2018879 Matrix: Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/09/17 07:25	

LABORATORY CONTROL SAMPLE: 2018880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2018881 2018882

Parameter	Units	92343442001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Nitrate	mg/L	0.38	2.5	2.5	3.7	3.7	131	131	90-110	0	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2018883 2018884

Parameter	Units	92343524003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Nitrate	mg/L	4.1	2.5	2.5	6.0	6.0	77	75	90-110	1	M1

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364277 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

METHOD BLANK: 2019957 Matrix: Water
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	06/10/17 00:37	

LABORATORY CONTROL SAMPLE: 2019958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2019959 2019960

Parameter	Units	92343552001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Nitrate	mg/L	76.2	2.5	2.5	74.8	78.4	-53	89	90-110	5	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2019961 2019962

Parameter	Units	92343524011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Nitrate	mg/L	1.2	2.5	2.5	3.7	3.8	99	101	90-110	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364537 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

METHOD BLANK: 2021014 Matrix: Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/14/17 02:05	

LABORATORY CONTROL SAMPLE: 2021015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2021016 2021017

Parameter	Units	92342600008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	6280 ug/L	10	10	17.6	17.5	113	113	90-110	0	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2021018 2021019

Parameter	Units	92343524004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	22.1	10	10	32.3	32.2	102	101	90-110	0	

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364538 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011

METHOD BLANK: 2021020 Matrix: Water
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/14/17 03:57	

LABORATORY CONTROL SAMPLE: 2021021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	20.4	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2021022 2021023

Parameter	Units	92342317019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	318000 ug/L	10	10	315	173	-22	-1450	90-110	58	M6,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2021024 2021025

Parameter	Units	92343251002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	23.3	10	10	32.9	32.9	96	96	90-110	0	

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 365242 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92343524012, 92343524013, 92343524014

METHOD BLANK: 2025179 Matrix: Water
Associated Lab Samples: 92343524012, 92343524013, 92343524014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/16/17 17:26	

LABORATORY CONTROL SAMPLE: 2025180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2025181 2025182

Parameter	Units	92343524012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	15.5	10	10	26.1	25.8	105	103	90-110	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2025183 2025184

Parameter	Units	92343965001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	34400	10	10	34400	33700	800	-6500	90-110	2	M6

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364430 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

METHOD BLANK: 2020594 Matrix: Water
Associated Lab Samples: 92343524001, 92343524002, 92343524003, 92343524004, 92343524005, 92343524006, 92343524007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/13/17 01:56	

LABORATORY CONTROL SAMPLE: 2020595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020596 2020597

Parameter	Units	92343417015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	23.6	23.7	95	95	90-110	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2020598 2020599

Parameter	Units	92343524006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	24.1	24.2	94	95	90-110	0	

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QUALITY CONTROL DATA

Project: LUCKY CLEANERS
Pace Project No.: 92343524

QC Batch: 364603 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

METHOD BLANK: 2021332 Matrix: Water
Associated Lab Samples: 92343524008, 92343524009, 92343524010, 92343524011, 92343524012, 92343524013, 92343524014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/14/17 12:17	

LABORATORY CONTROL SAMPLE: 2021333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	24.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2021334 2021335

Parameter	Units	92343626017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	ND	25	25	22.7	22.6	91	90	90-110	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2021336 2021337

Parameter	Units	92343774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	11.8	25	25	36.6	36.7	99	100	90-110	0	

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QUALIFIERS

Project: LUCKY CLEANERS
Pace Project No.: 92343524

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92343524001	**MW-6**	RSK 175 Modified	364653		
92343524002	**MW-8**	RSK 175 Modified	364653		
92343524003	**MW-10**	RSK 175 Modified	364653		
92343524004	**MW-12**	RSK 175 Modified	364653		
92343524005	**MW-13**	RSK 175 Modified	364653		
92343524006	**MW-14**	RSK 175 Modified	364653		
92343524007	**MW-15**	RSK 175 Modified	364653		
92343524008	**MW-1**	RSK 175 Modified	364653		
92343524009	**MW-2**	RSK 175 Modified	364653		
92343524010	**MW-3**	RSK 175 Modified	364653		
92343524011	**MW-5**	RSK 175 Modified	364653		
92343524012	**MW-4**	RSK 175 Modified	364653		
92343524013	**MW-7**	RSK 175 Modified	364653		
92343524014	**MW-11**	RSK 175 Modified	364653		
92343524008	**MW-1**	EPA 3010A	364365	EPA 6010	364544
92343524009	**MW-2**	EPA 3010A	364365	EPA 6010	364544
92343524010	**MW-3**	EPA 3010A	364365	EPA 6010	364544
92343524011	**MW-5**	EPA 3010A	364365	EPA 6010	364544
92343524008	**MW-1**	EPA 7470	364469	EPA 7470	364541
92343524009	**MW-2**	EPA 7470	364469	EPA 7470	364541
92343524010	**MW-3**	EPA 7470	364469	EPA 7470	364541
92343524011	**MW-5**	EPA 7470	364469	EPA 7470	364541
92343524001	**MW-6**	EPA 8260	364256		
92343524002	**MW-8**	EPA 8260	364256		
92343524003	**MW-10**	EPA 8260	364256		
92343524004	**MW-12**	EPA 8260	364256		
92343524005	**MW-13**	EPA 8260	364256		
92343524006	**MW-14**	EPA 8260	364256		
92343524007	**MW-15**	EPA 8260	364256		
92343524008	**MW-1**	EPA 8260	364481		
92343524009	**MW-2**	EPA 8260	364294		
92343524010	**MW-3**	EPA 8260	364294		
92343524011	**MW-5**	EPA 8260	364294		
92343524012	**MW-4**	EPA 8260	364294		
92343524013	**MW-7**	EPA 8260	364294		
92343524014	**MW-11**	EPA 8260	364294		
92343524015	**DRUM 1**	EPA 8260	364294		
92343524001	**MW-6**	SM 3500-Fe B	364284		
92343524002	**MW-8**	SM 3500-Fe B	364284		
92343524003	**MW-10**	SM 3500-Fe B	364284		
92343524004	**MW-12**	SM 3500-Fe B	364284		
92343524005	**MW-13**	SM 3500-Fe B	364284		
92343524006	**MW-14**	SM 3500-Fe B	364284		
92343524007	**MW-15**	SM 3500-Fe B	364284		
92343524008	**MW-1**	SM 3500-Fe B	364284		
92343524009	**MW-2**	SM 3500-Fe B	364284		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92343524010	MW-3	SM 3500-Fe B	364284		
92343524011	MW-5	SM 3500-Fe B	364284		
92343524012	MW-4	SM 3500-Fe B	364284		
92343524013	MW-7	SM 3500-Fe B	364284		
92343524014	MW-11	SM 3500-Fe B	364284		
92343524001	MW-6	SM 4500-S2D	364495		
92343524002	MW-8	SM 4500-S2D	364495		
92343524003	MW-10	SM 4500-S2D	364495		
92343524004	MW-12	SM 4500-S2D	364495		
92343524005	MW-13	SM 4500-S2D	364495		
92343524006	MW-14	SM 4500-S2D	364495		
92343524007	MW-15	SM 4500-S2D	364500		
92343524008	MW-1	SM 4500-S2D	364696		
92343524009	MW-2	SM 4500-S2D	364696		
92343524010	MW-3	SM 4500-S2D	364696		
92343524011	MW-5	SM 4500-S2D	364696		
92343524012	MW-4	SM 4500-S2D	364696		
92343524013	MW-7	SM 4500-S2D	364696		
92343524014	MW-11	SM 4500-S2D	364696		
92343524001	MW-6	EPA 300.0	364291		
92343524002	MW-8	EPA 300.0	364291		
92343524003	MW-10	EPA 300.0	364291		
92343524004	MW-12	EPA 300.0	364291		
92343524005	MW-13	EPA 300.0	364291		
92343524006	MW-14	EPA 300.0	364291		
92343524007	MW-15	EPA 300.0	364291		
92343524008	MW-1	EPA 300.0	364314		
92343524009	MW-2	EPA 300.0	364314		
92343524010	MW-3	EPA 300.0	364314		
92343524011	MW-5	EPA 300.0	364314		
92343524012	MW-4	EPA 300.0	364314		
92343524013	MW-7	EPA 300.0	364314		
92343524014	MW-11	EPA 300.0	364314		
92343524001	MW-6	EPA 353.2	364105		
92343524002	MW-8	EPA 353.2	364105		
92343524003	MW-10	EPA 353.2	364105		
92343524004	MW-12	EPA 353.2	364105		
92343524005	MW-13	EPA 353.2	364105		
92343524006	MW-14	EPA 353.2	364105		
92343524007	MW-15	EPA 353.2	364105		
92343524008	MW-1	EPA 353.2	364277		
92343524009	MW-2	EPA 353.2	364277		
92343524010	MW-3	EPA 353.2	364277		
92343524011	MW-5	EPA 353.2	364277		
92343524012	MW-4	EPA 353.2	364277		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LUCKY CLEANERS
Pace Project No.: 92343524

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92343524013	**MW-7**	EPA 353.2	364277		
92343524014	**MW-11**	EPA 353.2	364277		
92343524001	**MW-6**	SM 4500-Cl-E	364537		
92343524002	**MW-8**	SM 4500-Cl-E	364537		
92343524003	**MW-10**	SM 4500-Cl-E	364537		
92343524004	**MW-12**	SM 4500-Cl-E	364537		
92343524005	**MW-13**	SM 4500-Cl-E	364537		
92343524006	**MW-14**	SM 4500-Cl-E	364537		
92343524007	**MW-15**	SM 4500-Cl-E	364537		
92343524008	**MW-1**	SM 4500-Cl-E	364538		
92343524009	**MW-2**	SM 4500-Cl-E	364538		
92343524010	**MW-3**	SM 4500-Cl-E	364538		
92343524011	**MW-5**	SM 4500-Cl-E	364538		
92343524012	**MW-4**	SM 4500-Cl-E	365242		
92343524013	**MW-7**	SM 4500-Cl-E	365242		
92343524014	**MW-11**	SM 4500-Cl-E	365242		
92343524001	**MW-6**	SM 5310B	364430		
92343524002	**MW-8**	SM 5310B	364430		
92343524003	**MW-10**	SM 5310B	364430		
92343524004	**MW-12**	SM 5310B	364430		
92343524005	**MW-13**	SM 5310B	364430		
92343524006	**MW-14**	SM 5310B	364430		
92343524007	**MW-15**	SM 5310B	364430		
92343524008	**MW-1**	SM 5310B	364603		
92343524009	**MW-2**	SM 5310B	364603		
92343524010	**MW-3**	SM 5310B	364603		
92343524011	**MW-5**	SM 5310B	364603		
92343524012	**MW-4**	SM 5310B	364603		
92343524013	**MW-7**	SM 5310B	364603		
92343524014	**MW-11**	SM 5310B	364603		

Pace Analytical	Document No.: F-CAR-CS-033-Rev.01	Issuing Authority: Pace Quality Office

Laboratory receiving samples:

Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: Enercon Services **Project #:**

WO# : 92343524

92343524

Courier: ☐ Commercial ☒ ~~Pace~~ ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☒ ~~No~~ Seals Intact? ☐ Yes ☒ ~~No~~ Date/Initials Person Examining Contents: 6/9/17 AW

Packing Material: ☐ Bubble Wrap ☒ ~~Bubble Bags~~ ☐ None ☐ Other:

Thermometer: ☐ IR Gun ID: 5 Type of Ice: ☒ ~~Wet~~ ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Correction Factor: Cooler Temp Corrected (°C): 3.4 Biological Tissue Frozen? ☐ Yes ☐ No ☒ ~~N/A~~

Temp should be above freezing to 6°C

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ ~~Yes~~	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ ~~Yes~~	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ ~~No~~	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ ~~No~~	☐ N/A	4.
Sufficient Volume?	☒ ~~Yes~~	☐ No	☐ N/A	5.
Correct Containers Used?	☒ ~~Yes~~	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ ~~Yes~~	☐ No	☐ N/A	
Containers Intact?	☒ ~~Yes~~	☐ No	☐ N/A	7.
Samples Field Filtered?	☐ Yes	☒ ~~No~~	☐ N/A	8. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: GW	☒ ~~Yes~~	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☒ ~~No~~	☐ N/A	10.
Trip Blank Present?	☐ Yes	☒ ~~No~~	☐ N/A	11. AW 6/9/17
Trip Blank Custody Seals Present?	☐ Yes	☒ ~~No~~	☐ N/A	

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Sample Discrepancy: _____

Project Manager SCURF Review: _____ **Date:** 6/12

Project Manager SRF Review: _____ **Date:** 6/12

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

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

**Bottom half of box is to list number of bottles

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN	
1																3		3	3										
2																3		3	3										
3																3		3	3										
4																3		3	3										
5																3		3	3										
6																3		3	3										
7																3		3	3										
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

2002738

Section A Required Client Information:

Company:	Enercon
Address:	500 Townpark lane Kennesaw, GA
Email To:	Mpadgett@enercon.com
Phone: (770) 590-2135	Fax:
Requested Due Date/TAT:	Standard TAT

Section B Required Project Information:

Report To:	Mpadgett@enercon.com
Copy To:	wparker@enercon.com
Purchase Order No.:	
Project Name:	lucky Cleaners
Project Number:	lucky Cleaners

Section C Invoice Information:

Attention:	dlemarks@enercon.com
Company Name:	Enercon
Address:	500 Townpark lane
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: GA

Section D Required Client Information

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

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Sulfide	Methane, ethane, ethene	TOC	VOC	Nitrate, Ferrous Iron	RCRA Metals	Sulfate, Chloride	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-6	GW	G	6/7/17	2005				13	X		X	X	X			X		X	X	X	X	X	X	X		
2	MW-8				1845				13	X		X	X	X			X		X	X	X	X	X	X	X		
3	MW-10				1655				13	X		X	X	X			X		X	X	X	X	X	X	X		
4	MW-12				1910				13	X		X	X	X			X		X	X	X	X	X	X	X		
5	MW-13				1730				13	X		X	X	X			X		X	X	X	X	X	X	X		
6	MW-14				1755				13	X		X	X	X			X		X	X	X	X	X	X	X		
7	MW-15				2045				13	X		X	X	X			X		X	X	X	X	X	X	X		
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Mark Padgett / Enercon	6/8/17	0850	Stu Bell	6-8-17	0850				
	Stu Bell	6-8-17	1313	A. Wilson / Pace	6/8/17	13:13	5.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Padgett

SIGNATURE of SAMPLER: Mark Padgett DATE Signed (MM/DD/YY): 6/7/17

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

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

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

****Bottom half of box is to list number of bottles**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN	
1	i	1				i	i									3		3	3										
2	i	1				i	1									3		3	3										
3	1	i				i	1									3		3	3										
4	i	1					1									3		3	3										
5	i	1				i	1									3		3	3										
6	i	i					i									3		3	3										
7	i	1					i									3		3	3										
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	Enercon Services
Address:	500 Townpark Ln
	Kennesaw, GA 30144
Email:	wnparker@enercon.com
Phone: (770)590-2130	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	Nathan Parker
Copy To:	mpadgett@enercon.com
Purchase Order #:	
Project Name:	Lucky Cleaners
Project #:	

Section C — Invoice Information:

Attention:	alemarks@enercon.com
Company Name:	Enercon
Address:	300 Townpark Lane
Pace Quote:	
Pace Project Manager:	taylor.ezell@pacelabs.com,
Pace Profile #:	6714-7

Regulatory Agency	
State / Location	NC

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Sulfate, Chloride	Nitrate, Ferrous Iron	Sulfide	TOC	RCRA Metals	VOC	MEE	Residual Chlorine (Y/N)
1	MW-1	GW	G			6/8/17	1545		13	X		X	X	X			X		X	X	X	X	X	X	X	
2	MW-2					6/8/17	1455		13	X		X	X	X			X		X	X	X	X	X	X	X	
3	MW-3					6/8/17	1240		13	X		X	X	X			X		X	X	X	X	X	X	X	
4	MW-4					6/8/17	1150		12	X		X	X	X			X		X	X	X		X	X		
5	MW-5					6/8/17	1645		13	X		X	X	X			X		X	X	X	X	X	X	X	
6	MW-7					6/8/17	1000		12	X		X	X	X			X		X	X	X		X	X		
7	MW-11	V	V			6/8/17	1045		12	X		X	X	X			X		X	X	X		X	X		
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Padgett/Enercon	6/9/17	0820	S Bell	6-9-17	0890				
	S Bell	6-9-17	1457	A.Wilson/Pace	6/9/17	14:07	3.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Padgett

SIGNATURE of SAMPLER: Mark Padgett DATE Signed: 6/9/17

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

**Bottom half of box is to list number of bottles

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN	
1																3													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

200737

Section A Required Client Information:

Company:	Enercon
Address:	500 Townpark lane
	Kennesaw, GA
Email To:	mpadgett@enercon.com
Phone: 770-590-2132	Fax:
Requested Due Date/TAT:	Standard TAT

Section B Required Project Information:

Report To:	Mpadgett@enercon.com
Copy To:	Wnparker@enercon.com
Purchase Order No.:	lucky cleaners
Project Name:	lucky cleaners
Project Number:	

Section C Invoice Information:

Attention:	alemanks@enercon.com
Company Name:	Enercon
Address:	500 Townpark lane
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: GA

Section D Required Client Information

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

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOCs - 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Drum 1	GW	G	6/8/17	1300				3				X						X		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Padgett/Enercon	6/9/17	0820	[signature]	6-9-17	0820				
	[signature]	6.9.17	1407	A. Wilson/Pace	6/9/17	14:07	3.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Padgett

SIGNATURE of SAMPLER: Mark Padgett

DATE Signed (MM/DD/YY): 6/8/17

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

Appendix D
Soil Vapor Laboratory Report

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 06, 2017

Greg Rowell
Contour Engineering, LLC

1955 Vaugh Rd.
Kennesaw GA 30144

RE: Kroger #676 Soil Vapor

Dear Greg Rowell: Order No: 1710S69

Analytical Environmental Services, Inc. received 5 samples on 10/30/2017 2:32:00 PM
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Air & Emissions for Volatile Organics effective 07/01/17-06/30/18.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Jessica Shilling

Project Manager

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

APPENDIX

Compound	CAS #	Alternate Name	TO-14A	TO-15	SOP
Acetone	67-64-1				X
Allyl chloride	107-05-1	3-Chloropropene		X	
Benzene	71-43-2		X	X	
Benzyl chloride	100-44-7		X	X	
Bromodichloromethane	75-27-4	Dichlorobromomethane			X
Bromoform	75-25-2	Tribromomethane		X	
Bromomethane	74-83-9	Methyl bromide	X	X	
1,3-Butadiene	106-99-0			X	
Carbon disulfide	75-15-0			X	
Carbon tetrachloride	56-23-5		X	X	
Chlorobenzene	108-90-7		X	X	
Chloroethane	75-00-3	Ethyl chloride	X	X	
Chloroform	67-66-3		X	X	
Chloromethane	74-87-3	Methyl chloride	X	X	
Cyclohexane	110-82-7				X
Dibromochloromethane	124-48-1	Chlorodibromomethane			X
1,2-Dibromoethane	106-93-4	EDB/Ethylene dibromide	X	X	
1,2-Dichlorobenzene	95-50-1	*o*-Dichlorobenzene	X	X	
1,3-Dichlorobenzene	541-73-1	*m*-Dichlorobenzene	X	X	
1,4-Dichlorobenzene	106-46-7	p-Dichlorobenzene	X	X	
Dichlorodifluoromethane	75-71-8	Freon-12	X		
1,1-Dichloroethane	75-34-3		X	X	
1,2-Dichloroethane	107-06-2		X	X	
1,1-Dichloroethene	75-35-4	1,1-Dichloroethylene	X	X	
cis-1,2-Dichloroethene	156-59-2	*cis*-1,2-Dichloroethylene	X	X	
trans-1,2-Dichloroethene	156-60-5	*trans*-1,2-Dichloroethylene		X	
1,2-Dichloropropane	78-87-5		X	X	
cis-1,3-Dichloropropene	10061-01-5		X	X	
trans-1,3-Dichloropropene	10061-02-6		X	X	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	Freon-114	X		
1,4-Dioxane	123-91-1	1,4-Diethylene oxide		X	
Ethyl acetate	141-78-6	Acetic acid, ethyl ester			X
Ethylbenzene	100-41-4		X	X	
4-Ethyltoluene	622-96-8				X
n-Heptane	142-82-5	Heptane			X
Hexachlorobutadiene	87-68-3	Hexachloro-1,3-butadiene	X	X	

n-Hexane	110-54-3	Hexane		X	
Compound	**CAS #**	**Alternate Name**	**TO-14A**	**TO-15**	**SOP**
2-Hexanone	591-78-6	Methyl butyl ketone			X
Methylene chloride	75-09-2	Dichloromethane	X	X	
Methyl tert-butyl ether	1634-04-4	MTBE		X	
Methyl ethyl ketone	78-93-3	MEK/2-Butanone		X	
Methyl isobutyl ketone	108-10-1	4-Methyl-2-pentanone		X	
2-Propanol	67-63-0	Isopropanol/Isopropyl alcohol			X
Propene	115-07-1	Propylene			X
Styrene	100-42-5			X	
1,1,2,2-Tetrachloroethane	79-34-5		X	X	
Tetrachloroethene	127-18-4	Tetrachloroethylene	X	X	
Tetrahydrofuran	109-99-9				X
Toluene	108-88-3			X	
1,2,4-Trichlorobenzene	120-82-1			X	
1,1,1-Trichloroethane	74-55-6			X	
1,1,2-Trichloroethane	79-00-5			X	
Trichloroethene	79-01-6	Trichloroethylene		X	
Trichlorofluoromethane	75-69-4	Freon-11	X		
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	Freon-113	X		
1,2,4-Trimethylbenzene	95-63-6		X	X	
1,3,5-Trimethylbenzene	108-67-8		X	X	
2,2,4-Trimethylpentane	540-84-1	Isooctane		X	
Vinyl acetate	108-05-04			X	
Vinyl bromide	593-60-2	Bromoethene		X	
Vinyl chloride	75-01-4	Chloroethene	X	X	
Xylenes, Total	1330-20-7		X	X	
m/p-Xylene	179601-23-1		X	X	
o-Xylene	95-47-6		X	X	

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

VAPOR/AIR CHAIN OF CUSTODY

Work Order #: 1710S109

Page 1 of 1

Company:	Address:	Bottle Order #:	Turnaround Time (Circle One):
CONTOUR ENGINEERING	1955 VAUGHN RD KENNESAW GA		Standard (3 Day Rush) 2 Day Rush Other
Phone:	Fax:		
Sampled by: A MOORE	Signature:		

#	Sample ID	Sample Start Date	Sample Start Time (24hr)	Sample Finish Date	Sample Finish Time (24 hr)	Sample Matrix*	Canister Serial #	Flow Controller ID	Canister Pressure In Field ("Hg) Start	Canister Pressure In Field ("Hg) Stop	ANALYSIS REQUESTED TO-15	Remarks
1	SVI-1	10/26/17	2118	10/26/17	2126	SS	3903	01109	28	0	X	
2	SVI-2	↑	2140	↑	2147	↑	4015	01097	26	0	X	
3	SVI-3		2157		2206		3997	01122	28	2	X	
4	SVI-4	↓	2214	↓	2222	↓	3955	01078	28	2	X	
5	SVI-5	10/26/17	2230	10/26/17	2236	SS	3964	0118	26	0	X	
6												
7												
8												
9												
10												

SPECIAL INSTRUCTIONS/COMMENTS:
If specialized list is required, list analytes here:

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1:	0940 10/27/17	1: oct-30-17	11:48 AM
2: oct-30-17 2:32		2:	10/30/17 232
3:		3:	

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL (COURIER)
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: KROGER #676 SOIL VAPOR
PROJECT #: E17KRO123
SITE ADDRESS: 2801 WASHINGTON RD AUGUSTA GA
SEND REPORT TO: GROWELL@CONTOURENG.COM
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
PO#:
STATE PROGRAM (if any): _____ E-mail? Y / N Fax? Y / N
QUOTE #:_____ DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC, AES WILL PROCEED AS STANDARD TAT.
Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

*SAMPLE MATRIX: IA = Indoor Air AA = Ambient Air SS = Subslab SV = Soil Vapor O = Other (specify)

AES, Inc., assumes no liability with respect to the collection and shipment of these samples.

White Copy - Original; Blue Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

AES

VAPOR/AIR FIELD TEST DATA SHEET

Work Order #: 1710S69

Page 1 of 1

Company:	Address:	Project Name:	Project Number:
CONTOUR ENGINEERING	1955 UNIVERSAL RD KENNESAW GA	KROGER #676 SOIL VAPOR	EIT KRO:23
Phone:	Fax:	Site Address: 2801 WASHINGTON RD AUGUSTA GA	
Sampled by: A MORRIS	Signature: A Morris	**SAMPLING INFORMATION**	

#	Sample ID	Canister Serial #	Flow Controller ID#	Canister Cert. ID#	Sample Start Date	Sample Start Time (24hr)	Sample Start Canister Pressure in Field ("Hg)	Sample Start Flow Control Readout (mL/min)	Sample Start Temperature Interior (°F)	Sample Start Temperature Ambient (°F)	Sample Stop Date	Sample Stop Time (24hr)	Sample Stop Canister Pressure in Field ("Hg)	Sample Stop Flow Control Readout (mL/min)	Sample Stop Temperature Interior (°F)	Sample Stop Temperature Ambient (°F)
1	SVI-1	3903	01108	249089	10/26/17	2118	28				10/26/17	2126	0			
2	SVI-2	4015	01097	249089	10/26/17	2140	26				10/26/17	2147	0			
3	SVI-3	3997	01122	249089	10/26/17	2157	28				10/26/17	2206	2			
4	SVI-4	3955	01078	249089	10/26/17	2214	28				10/26/17	2223	2			
5	SVI-5	3964	0118	249089	10/26/17	2230	26				10/26/17	2239	0			
6																
7																
8																
9																
10																

Date Shipped Out From Lab: Oct-30-17 11:45

Date Received Back To Lab: Oct-30-17 2:32

Weather Conditions
Ambient Temp Avg:
Ambient Temp High/Low:
Indoor Air Temp Avg:
Barometric Pressure:
Wind Speed/Direction:
Other:

Field Notes:
received by: [signature] 10/30/17 2:32 (courier)

Analytical Environmental Services, Inc

Date: 6-Nov-17

Client: Contour Engineering, LLC
Project: Kroger #676 Soil Vapor
Lab ID: 1710S69

Case Narrative

Sample Receiving Nonconformance:

Sample -005A's canister was not labeled, only the canister serial number was present. Due to all other cansiters being labeled and accounted for, lab proceed with analysis of -005A.

Volatiles Organic Compounds Analysis by Method TO-14/15:

Percent recovery for the internal standard compounds Bromochloromethane & 1,4 Difluorobenzene on sample 1710S69-002 A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-1
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 9:26:00 PM
Lab ID:	1710S69-001	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS	**TO-15**			**(TO-15)**				
1,1,1-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 20:15	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m3	250788	2	10/31/2017 20:15	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 20:15	MD
1,1-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 20:15	MD
1,1-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 20:15	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m3	250788	2	10/31/2017 20:15	MD
1,2,4-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 20:15	MD
1,2-Dibromoethane	BRL	7.7		ug/m3	250788	2	10/31/2017 20:15	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 20:15	MD
1,2-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 20:15	MD
1,2-Dichloropropane	BRL	4.6		ug/m3	250788	2	10/31/2017 20:15	MD
1,3,5-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 20:15	MD
1,3-Butadiene	BRL	2.2		ug/m3	250788	2	10/31/2017 20:15	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 20:15	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 20:15	MD
1,4-Dioxane	BRL	3.6		ug/m3	250788	2	10/31/2017 20:15	MD
2,2,4-Trimethylpentane	BRL	4.7		ug/m3	250788	2	10/31/2017 20:15	MD
2-Butanone	8.0	2.9		ug/m3	250788	2	10/31/2017 20:15	MD
2-Hexanone	BRL	4.1		ug/m3	250788	2	10/31/2017 20:15	MD
4-Ethyltoluene	BRL	4.9		ug/m3	250788	2	10/31/2017 20:15	MD
4-Methyl-2-pentanone	BRL	4.1		ug/m3	250788	2	10/31/2017 20:15	MD
Acetone	48	12		ug/m3	250788	2	10/31/2017 20:15	MD
Allyl chloride	BRL	3.1		ug/m3	250788	2	10/31/2017 20:15	MD
Benzene	BRL	3.2		ug/m3	250788	2	10/31/2017 20:15	MD
Benzyl chloride	BRL	5.2		ug/m3	250788	2	10/31/2017 20:15	MD
Bromodichloromethane	BRL	6.7		ug/m3	250788	2	10/31/2017 20:15	MD
Bromoform	BRL	10		ug/m3	250788	2	10/31/2017 20:15	MD
Bromomethane	BRL	3.9		ug/m3	250788	2	10/31/2017 20:15	MD
Carbon disulfide	9.0	3.1		ug/m3	250788	2	10/31/2017 20:15	MD
Carbon tetrachloride	BRL	6.3		ug/m3	250788	2	10/31/2017 20:15	MD
Chlorobenzene	BRL	4.6		ug/m3	250788	2	10/31/2017 20:15	MD
Chloroethane	BRL	2.6		ug/m3	250788	2	10/31/2017 20:15	MD
Chloroform	BRL	4.9		ug/m3	250788	2	10/31/2017 20:15	MD
Chloromethane	BRL	2.1		ug/m3	250788	2	10/31/2017 20:15	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 20:15	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 20:15	MD
Cyclohexane	BRL	3.4		ug/m3	250788	2	10/31/2017 20:15	MD
Dibromochloromethane	BRL	8.5		ug/m3	250788	2	10/31/2017 20:15	MD
Dichlorodifluoromethane	BRL	4.9		ug/m3	250788	2	10/31/2017 20:15	MD
Ethyl acetate	BRL	3.6		ug/m3	250788	2	10/31/2017 20:15	MD
Ethylbenzene	BRL	4.3		ug/m3	250788	2	10/31/2017 20:15	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-1
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 9:26:00 PM
Lab ID:	1710S69-001	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15				**(TO-15)**				
Freon-113	BRL	7.7		ug/m3	250788	2	10/31/2017 20:15	MD
Freon-114	BRL	7.0		ug/m3	250788	2	10/31/2017 20:15	MD
Hexachlorobutadiene	BRL	11		ug/m3	250788	2	10/31/2017 20:15	MD
Isopropyl alcohol	BRL	18		ug/m3	250788	2	10/31/2017 20:15	MD
m,p-Xylene	BRL	8.7		ug/m3	250788	2	10/31/2017 20:15	MD
Methyl tert-butyl ether	BRL	3.6		ug/m3	250788	2	10/31/2017 20:15	MD
Methylene chloride	BRL	3.5		ug/m3	250788	2	10/31/2017 20:15	MD
n-Heptane	BRL	4.1		ug/m3	250788	2	10/31/2017 20:15	MD
n-Hexane	BRL	3.5		ug/m3	250788	2	10/31/2017 20:15	MD
o-Xylene	BRL	4.3		ug/m3	250788	2	10/31/2017 20:15	MD
Propene	4.5	1.7		ug/m3	250788	2	10/31/2017 20:15	MD
Styrene	BRL	4.3		ug/m3	250788	2	10/31/2017 20:15	MD
Tetrachloroethene	950	680		ug/m3	250788	2	10/31/2017 16:17	MD
Tetrahydrofuran	9.3	2.9		ug/m3	250788	2	10/31/2017 20:15	MD
Toluene	BRL	3.8		ug/m3	250788	2	10/31/2017 20:15	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 20:15	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 20:15	MD
Trichloroethene	BRL	5.4		ug/m3	250788	2	10/31/2017 20:15	MD
Trichlorofluoromethane	BRL	5.6		ug/m3	250788	2	10/31/2017 20:15	MD
Vinyl acetate	BRL	3.5		ug/m3	250788	2	10/31/2017 20:15	MD
Vinyl bromide	BRL	4.4		ug/m3	250788	2	10/31/2017 20:15	MD
Vinyl chloride	BRL	2.6		ug/m3	250788	2	10/31/2017 20:15	MD
Xylenes, Total	BRL	13		ug/m3	250788	2	10/31/2017 20:15	MD
Surr: 4-Bromofluorobenzene	79.5	70-130		%REC	250788	2	10/31/2017 16:17	MD
Surr: 4-Bromofluorobenzene	81	70-130		%REC	250788	2	10/31/2017 20:15	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-2
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 9:47:00 PM
Lab ID:	1710S69-002	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS	**TO-15**			**(TO-15)**				
1,1,1-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 21:03	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m3	250788	2	10/31/2017 21:03	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 21:03	MD
1,1-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 21:03	MD
1,1-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 21:03	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m3	250788	2	10/31/2017 21:03	MD
1,2,4-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 21:03	MD
1,2-Dibromoethane	BRL	7.7		ug/m3	250788	2	10/31/2017 21:03	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 21:03	MD
1,2-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 21:03	MD
1,2-Dichloropropane	BRL	4.6		ug/m3	250788	2	10/31/2017 21:03	MD
1,3,5-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 21:03	MD
1,3-Butadiene	BRL	2.2		ug/m3	250788	2	10/31/2017 21:03	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 21:03	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 21:03	MD
1,4-Dioxane	BRL	3.6		ug/m3	250788	2	10/31/2017 21:03	MD
2,2,4-Trimethylpentane	BRL	4.7		ug/m3	250788	2	10/31/2017 21:03	MD
2-Butanone	BRL	2.9		ug/m3	250788	2	10/31/2017 21:03	MD
2-Hexanone	BRL	4.1		ug/m3	250788	2	10/31/2017 21:03	MD
4-Ethyltoluene	BRL	4.9		ug/m3	250788	2	10/31/2017 21:03	MD
4-Methyl-2-pentanone	BRL	4.1		ug/m3	250788	2	10/31/2017 21:03	MD
Acetone	30	12		ug/m3	250788	2	10/31/2017 21:03	MD
Allyl chloride	BRL	3.1		ug/m3	250788	2	10/31/2017 21:03	MD
Benzene	BRL	3.2		ug/m3	250788	2	10/31/2017 21:03	MD
Benzyl chloride	BRL	5.2		ug/m3	250788	2	10/31/2017 21:03	MD
Bromodichloromethane	BRL	6.7		ug/m3	250788	2	10/31/2017 21:03	MD
Bromoform	BRL	10		ug/m3	250788	2	10/31/2017 21:03	MD
Bromomethane	BRL	3.9		ug/m3	250788	2	10/31/2017 21:03	MD
Carbon disulfide	BRL	3.1		ug/m3	250788	2	10/31/2017 21:03	MD
Carbon tetrachloride	BRL	6.3		ug/m3	250788	2	10/31/2017 21:03	MD
Chlorobenzene	BRL	4.6		ug/m3	250788	2	10/31/2017 21:03	MD
Chloroethane	BRL	2.6		ug/m3	250788	2	10/31/2017 21:03	MD
Chloroform	BRL	4.9		ug/m3	250788	2	10/31/2017 21:03	MD
Chloromethane	BRL	2.1		ug/m3	250788	2	10/31/2017 21:03	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 21:03	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 21:03	MD
Cyclohexane	BRL	3.4		ug/m3	250788	2	10/31/2017 21:03	MD
Dibromochloromethane	BRL	8.5		ug/m3	250788	2	10/31/2017 21:03	MD
Dichlorodifluoromethane	BRL	4.9		ug/m3	250788	2	10/31/2017 21:03	MD
Ethyl acetate	BRL	3.6		ug/m3	250788	2	10/31/2017 21:03	MD
Ethylbenzene	BRL	4.3		ug/m3	250788	2	10/31/2017 21:03	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-2
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 9:47:00 PM
Lab ID:	1710S69-002	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15				**(TO-15)**				
Freon-113	33	7.7		ug/m3	250788	2	10/31/2017 21:03	MD
Freon-114	BRL	7.0		ug/m3	250788	2	10/31/2017 21:03	MD
Hexachlorobutadiene	BRL	11		ug/m3	250788	2	10/31/2017 21:03	MD
Isopropyl alcohol	BRL	18		ug/m3	250788	2	10/31/2017 21:03	MD
m,p-Xylene	BRL	8.7		ug/m3	250788	2	10/31/2017 21:03	MD
Methyl tert-butyl ether	BRL	3.6		ug/m3	250788	2	10/31/2017 21:03	MD
Methylene chloride	170	3.5		ug/m3	250788	2	10/31/2017 21:03	MD
n-Heptane	BRL	4.1		ug/m3	250788	2	10/31/2017 21:03	MD
n-Hexane	27	3.5		ug/m3	250788	2	10/31/2017 21:03	MD
o-Xylene	BRL	4.3		ug/m3	250788	2	10/31/2017 21:03	MD
Propene	BRL	1.7		ug/m3	250788	2	10/31/2017 21:03	MD
Styrene	BRL	4.3		ug/m3	250788	2	10/31/2017 21:03	MD
Tetrachloroethene	2700	680		ug/m3	250788	2	10/31/2017 17:05	MD
Tetrahydrofuran	BRL	2.9		ug/m3	250788	2	10/31/2017 21:03	MD
Toluene	11	3.8		ug/m3	250788	2	10/31/2017 21:03	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 21:03	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 21:03	MD
Trichloroethene	BRL	5.4		ug/m3	250788	2	10/31/2017 21:03	MD
Trichlorofluoromethane	9.0	5.6		ug/m3	250788	2	10/31/2017 21:03	MD
Vinyl acetate	BRL	3.5		ug/m3	250788	2	10/31/2017 21:03	MD
Vinyl bromide	BRL	4.4		ug/m3	250788	2	10/31/2017 21:03	MD
Vinyl chloride	BRL	2.6		ug/m3	250788	2	10/31/2017 21:03	MD
Xylenes, Total	BRL	13		ug/m3	250788	2	10/31/2017 21:03	MD
Surr: 4-Bromofluorobenzene	80.2	70-130		%REC	250788	2	10/31/2017 17:05	MD
Surr: 4-Bromofluorobenzene	88	70-130		%REC	250788	2	10/31/2017 21:03	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-3
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 10:06:00 PM
Lab ID:	1710S69-003	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS	**TO-15**			**(TO-15)**				
1,1,1-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 21:52	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m3	250788	2	10/31/2017 21:52	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 21:52	MD
1,1-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 21:52	MD
1,1-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 21:52	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m3	250788	2	10/31/2017 21:52	MD
1,2,4-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 21:52	MD
1,2-Dibromoethane	BRL	7.7		ug/m3	250788	2	10/31/2017 21:52	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 21:52	MD
1,2-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 21:52	MD
1,2-Dichloropropane	BRL	4.6		ug/m3	250788	2	10/31/2017 21:52	MD
1,3,5-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 21:52	MD
1,3-Butadiene	BRL	2.2		ug/m3	250788	2	10/31/2017 21:52	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 21:52	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 21:52	MD
1,4-Dioxane	BRL	3.6		ug/m3	250788	2	10/31/2017 21:52	MD
2,2,4-Trimethylpentane	BRL	4.7		ug/m3	250788	2	10/31/2017 21:52	MD
2-Butanone	BRL	2.9		ug/m3	250788	2	10/31/2017 21:52	MD
2-Hexanone	BRL	4.1		ug/m3	250788	2	10/31/2017 21:52	MD
4-Ethyltoluene	BRL	4.9		ug/m3	250788	2	10/31/2017 21:52	MD
4-Methyl-2-pentanone	BRL	4.1		ug/m3	250788	2	10/31/2017 21:52	MD
Acetone	BRL	12		ug/m3	250788	2	10/31/2017 21:52	MD
Allyl chloride	BRL	3.1		ug/m3	250788	2	10/31/2017 21:52	MD
Benzene	BRL	3.2		ug/m3	250788	2	10/31/2017 21:52	MD
Benzyl chloride	BRL	5.2		ug/m3	250788	2	10/31/2017 21:52	MD
Bromodichloromethane	BRL	6.7		ug/m3	250788	2	10/31/2017 21:52	MD
Bromoform	BRL	10		ug/m3	250788	2	10/31/2017 21:52	MD
Bromomethane	BRL	3.9		ug/m3	250788	2	10/31/2017 21:52	MD
Carbon disulfide	BRL	3.1		ug/m3	250788	2	10/31/2017 21:52	MD
Carbon tetrachloride	BRL	6.3		ug/m3	250788	2	10/31/2017 21:52	MD
Chlorobenzene	BRL	4.6		ug/m3	250788	2	10/31/2017 21:52	MD
Chloroethane	BRL	2.6		ug/m3	250788	2	10/31/2017 21:52	MD
Chloroform	BRL	4.9		ug/m3	250788	2	10/31/2017 21:52	MD
Chloromethane	BRL	2.1		ug/m3	250788	2	10/31/2017 21:52	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 21:52	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 21:52	MD
Cyclohexane	BRL	3.4		ug/m3	250788	2	10/31/2017 21:52	MD
Dibromochloromethane	BRL	8.5		ug/m3	250788	2	10/31/2017 21:52	MD
Dichlorodifluoromethane	BRL	4.9		ug/m3	250788	2	10/31/2017 21:52	MD
Ethyl acetate	BRL	3.6		ug/m3	250788	2	10/31/2017 21:52	MD
Ethylbenzene	BRL	4.3		ug/m3	250788	2	10/31/2017 21:52	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-3
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 10:06:00 PM
Lab ID:	1710S69-003	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15				**(TO-15)**				
Freon-113	18	7.7		ug/m3	250788	2	10/31/2017 21:52	MD
Freon-114	BRL	7.0		ug/m3	250788	2	10/31/2017 21:52	MD
Hexachlorobutadiene	BRL	11		ug/m3	250788	2	10/31/2017 21:52	MD
Isopropyl alcohol	BRL	18		ug/m3	250788	2	10/31/2017 21:52	MD
m,p-Xylene	BRL	8.7		ug/m3	250788	2	10/31/2017 21:52	MD
Methyl tert-butyl ether	BRL	3.6		ug/m3	250788	2	10/31/2017 21:52	MD
Methylene chloride	BRL	3.5		ug/m3	250788	2	10/31/2017 21:52	MD
n-Heptane	BRL	4.1		ug/m3	250788	2	10/31/2017 21:52	MD
n-Hexane	BRL	3.5		ug/m3	250788	2	10/31/2017 21:52	MD
o-Xylene	BRL	4.3		ug/m3	250788	2	10/31/2017 21:52	MD
Propene	BRL	1.7		ug/m3	250788	2	10/31/2017 21:52	MD
Styrene	BRL	4.3		ug/m3	250788	2	10/31/2017 21:52	MD
Tetrachloroethene	200	6.8		ug/m3	250788	2	10/31/2017 21:52	MD
Tetrahydrofuran	BRL	2.9		ug/m3	250788	2	10/31/2017 21:52	MD
Toluene	BRL	3.8		ug/m3	250788	2	10/31/2017 21:52	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 21:52	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 21:52	MD
Trichloroethene	BRL	5.4		ug/m3	250788	2	10/31/2017 21:52	MD
Trichlorofluoromethane	BRL	5.6		ug/m3	250788	2	10/31/2017 21:52	MD
Vinyl acetate	BRL	3.5		ug/m3	250788	2	10/31/2017 21:52	MD
Vinyl bromide	BRL	4.4		ug/m3	250788	2	10/31/2017 21:52	MD
Vinyl chloride	BRL	2.6		ug/m3	250788	2	10/31/2017 21:52	MD
Xylenes, Total	BRL	13		ug/m3	250788	2	10/31/2017 21:52	MD
Surr: 4-Bromofluorobenzene	82.2	70-130		%REC	250788	2	10/31/2017 21:52	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-4
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 10:22:00 PM
Lab ID:	1710S69-004	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS	**TO-15**			**(TO-15)**				
1,1,1-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 22:40	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m3	250788	2	10/31/2017 22:40	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 22:40	MD
1,1-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 22:40	MD
1,1-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 22:40	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m3	250788	2	10/31/2017 22:40	MD
1,2,4-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 22:40	MD
1,2-Dibromoethane	BRL	7.7		ug/m3	250788	2	10/31/2017 22:40	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 22:40	MD
1,2-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 22:40	MD
1,2-Dichloropropane	BRL	4.6		ug/m3	250788	2	10/31/2017 22:40	MD
1,3,5-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 22:40	MD
1,3-Butadiene	BRL	2.2		ug/m3	250788	2	10/31/2017 22:40	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 22:40	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 22:40	MD
1,4-Dioxane	BRL	3.6		ug/m3	250788	2	10/31/2017 22:40	MD
2,2,4-Trimethylpentane	BRL	4.7		ug/m3	250788	2	10/31/2017 22:40	MD
2-Butanone	7.7	2.9		ug/m3	250788	2	10/31/2017 22:40	MD
2-Hexanone	BRL	4.1		ug/m3	250788	2	10/31/2017 22:40	MD
4-Ethyltoluene	BRL	4.9		ug/m3	250788	2	10/31/2017 22:40	MD
4-Methyl-2-pentanone	BRL	4.1		ug/m3	250788	2	10/31/2017 22:40	MD
Acetone	19	12		ug/m3	250788	2	10/31/2017 22:40	MD
Allyl chloride	BRL	3.1		ug/m3	250788	2	10/31/2017 22:40	MD
Benzene	BRL	3.2		ug/m3	250788	2	10/31/2017 22:40	MD
Benzyl chloride	BRL	5.2		ug/m3	250788	2	10/31/2017 22:40	MD
Bromodichloromethane	BRL	6.7		ug/m3	250788	2	10/31/2017 22:40	MD
Bromoform	BRL	10		ug/m3	250788	2	10/31/2017 22:40	MD
Bromomethane	BRL	3.9		ug/m3	250788	2	10/31/2017 22:40	MD
Carbon disulfide	3.1	3.1		ug/m3	250788	2	10/31/2017 22:40	MD
Carbon tetrachloride	BRL	6.3		ug/m3	250788	2	10/31/2017 22:40	MD
Chlorobenzene	BRL	4.6		ug/m3	250788	2	10/31/2017 22:40	MD
Chloroethane	BRL	2.6		ug/m3	250788	2	10/31/2017 22:40	MD
Chloroform	6.6	4.9		ug/m3	250788	2	10/31/2017 22:40	MD
Chloromethane	BRL	2.1		ug/m3	250788	2	10/31/2017 22:40	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 22:40	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 22:40	MD
Cyclohexane	BRL	3.4		ug/m3	250788	2	10/31/2017 22:40	MD
Dibromochloromethane	BRL	8.5		ug/m3	250788	2	10/31/2017 22:40	MD
Dichlorodifluoromethane	BRL	4.9		ug/m3	250788	2	10/31/2017 22:40	MD
Ethyl acetate	BRL	3.6		ug/m3	250788	2	10/31/2017 22:40	MD
Ethylbenzene	BRL	4.3		ug/m3	250788	2	10/31/2017 22:40	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-4
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 10:22:00 PM
Lab ID:	1710S69-004	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15				**(TO-15)**				
Freon-113	BRL	7.7		ug/m3	250788	2	10/31/2017 22:40	MD
Freon-114	BRL	7.0		ug/m3	250788	2	10/31/2017 22:40	MD
Hexachlorobutadiene	BRL	11		ug/m3	250788	2	10/31/2017 22:40	MD
Isopropyl alcohol	BRL	18		ug/m3	250788	2	10/31/2017 22:40	MD
m,p-Xylene	BRL	8.7		ug/m3	250788	2	10/31/2017 22:40	MD
Methyl tert-butyl ether	BRL	3.6		ug/m3	250788	2	10/31/2017 22:40	MD
Methylene chloride	BRL	3.5		ug/m3	250788	2	10/31/2017 22:40	MD
n-Heptane	BRL	4.1		ug/m3	250788	2	10/31/2017 22:40	MD
n-Hexane	BRL	3.5		ug/m3	250788	2	10/31/2017 22:40	MD
o-Xylene	BRL	4.3		ug/m3	250788	2	10/31/2017 22:40	MD
Propene	7.2	1.7		ug/m3	250788	2	10/31/2017 22:40	MD
Styrene	BRL	4.3		ug/m3	250788	2	10/31/2017 22:40	MD
Tetrachloroethene	950	6.8		ug/m3	250788	2	10/31/2017 22:40	MD
Tetrahydrofuran	BRL	2.9		ug/m3	250788	2	10/31/2017 22:40	MD
Toluene	3.8	3.8		ug/m3	250788	2	10/31/2017 22:40	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 22:40	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 22:40	MD
Trichloroethene	BRL	5.4		ug/m3	250788	2	10/31/2017 22:40	MD
Trichlorofluoromethane	7.3	5.6		ug/m3	250788	2	10/31/2017 22:40	MD
Vinyl acetate	BRL	3.5		ug/m3	250788	2	10/31/2017 22:40	MD
Vinyl bromide	BRL	4.4		ug/m3	250788	2	10/31/2017 22:40	MD
Vinyl chloride	BRL	2.6		ug/m3	250788	2	10/31/2017 22:40	MD
Xylenes, Total	BRL	13		ug/m3	250788	2	10/31/2017 22:40	MD
Surr: 4-Bromofluorobenzene	81.2	70-130		%REC	250788	2	10/31/2017 22:40	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-5
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 10:39:00 PM
Lab ID:	1710S69-005	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS	**TO-15**			**(TO-15)**				
1,1,1-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 23:28	MD
1,1,2,2-Tetrachloroethane	BRL	6.9		ug/m3	250788	2	10/31/2017 23:28	MD
1,1,2-Trichloroethane	BRL	5.5		ug/m3	250788	2	10/31/2017 23:28	MD
1,1-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 23:28	MD
1,1-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 23:28	MD
1,2,4-Trichlorobenzene	BRL	7.4		ug/m3	250788	2	10/31/2017 23:28	MD
1,2,4-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 23:28	MD
1,2-Dibromoethane	BRL	7.7		ug/m3	250788	2	10/31/2017 23:28	MD
1,2-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 23:28	MD
1,2-Dichloroethane	BRL	4.0		ug/m3	250788	2	10/31/2017 23:28	MD
1,2-Dichloropropane	BRL	4.6		ug/m3	250788	2	10/31/2017 23:28	MD
1,3,5-Trimethylbenzene	BRL	4.9		ug/m3	250788	2	10/31/2017 23:28	MD
1,3-Butadiene	BRL	2.2		ug/m3	250788	2	10/31/2017 23:28	MD
1,3-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 23:28	MD
1,4-Dichlorobenzene	BRL	6.0		ug/m3	250788	2	10/31/2017 23:28	MD
1,4-Dioxane	BRL	3.6		ug/m3	250788	2	10/31/2017 23:28	MD
2,2,4-Trimethylpentane	BRL	4.7		ug/m3	250788	2	10/31/2017 23:28	MD
2-Butanone	6.2	2.9		ug/m3	250788	2	10/31/2017 23:28	MD
2-Hexanone	BRL	4.1		ug/m3	250788	2	10/31/2017 23:28	MD
4-Ethyltoluene	BRL	4.9		ug/m3	250788	2	10/31/2017 23:28	MD
4-Methyl-2-pentanone	BRL	4.1		ug/m3	250788	2	10/31/2017 23:28	MD
Acetone	36	12		ug/m3	250788	2	10/31/2017 23:28	MD
Allyl chloride	BRL	3.1		ug/m3	250788	2	10/31/2017 23:28	MD
Benzene	BRL	3.2		ug/m3	250788	2	10/31/2017 23:28	MD
Benzyl chloride	BRL	5.2		ug/m3	250788	2	10/31/2017 23:28	MD
Bromodichloromethane	BRL	6.7		ug/m3	250788	2	10/31/2017 23:28	MD
Bromoform	BRL	10		ug/m3	250788	2	10/31/2017 23:28	MD
Bromomethane	BRL	3.9		ug/m3	250788	2	10/31/2017 23:28	MD
Carbon disulfide	4.7	3.1		ug/m3	250788	2	10/31/2017 23:28	MD
Carbon tetrachloride	BRL	6.3		ug/m3	250788	2	10/31/2017 23:28	MD
Chlorobenzene	BRL	4.6		ug/m3	250788	2	10/31/2017 23:28	MD
Chloroethane	BRL	2.6		ug/m3	250788	2	10/31/2017 23:28	MD
Chloroform	BRL	4.9		ug/m3	250788	2	10/31/2017 23:28	MD
Chloromethane	BRL	2.1		ug/m3	250788	2	10/31/2017 23:28	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 23:28	MD
cis-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 23:28	MD
Cyclohexane	BRL	3.4		ug/m3	250788	2	10/31/2017 23:28	MD
Dibromochloromethane	BRL	8.5		ug/m3	250788	2	10/31/2017 23:28	MD
Dichlorodifluoromethane	BRL	4.9		ug/m3	250788	2	10/31/2017 23:28	MD
Ethyl acetate	BRL	3.6		ug/m3	250788	2	10/31/2017 23:28	MD
Ethylbenzene	BRL	4.3		ug/m3	250788	2	10/31/2017 23:28	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **TO-15 Report** **Date:** 6-Nov-17

Client:	Contour Engineering, LLC	**Client Sample ID:**	SVI-5
Project Name:	Kroger #676 Soil Vapor	**Collection Date:**	10/26/2017 10:39:00 PM
Lab ID:	1710S69-005	**Matrix:**	Air

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Toxic Organic Compounds in Air by GCMS TO-15				**(TO-15)**				
Freon-113	10.0	7.7		ug/m3	250788	2	10/31/2017 23:28	MD
Freon-114	BRL	7.0		ug/m3	250788	2	10/31/2017 23:28	MD
Hexachlorobutadiene	BRL	11		ug/m3	250788	2	10/31/2017 23:28	MD
Isopropyl alcohol	BRL	18		ug/m3	250788	2	10/31/2017 23:28	MD
m,p-Xylene	BRL	8.7		ug/m3	250788	2	10/31/2017 23:28	MD
Methyl tert-butyl ether	BRL	3.6		ug/m3	250788	2	10/31/2017 23:28	MD
Methylene chloride	BRL	3.5		ug/m3	250788	2	10/31/2017 23:28	MD
n-Heptane	BRL	4.1		ug/m3	250788	2	10/31/2017 23:28	MD
n-Hexane	7.0	3.5		ug/m3	250788	2	10/31/2017 23:28	MD
o-Xylene	BRL	4.3		ug/m3	250788	2	10/31/2017 23:28	MD
Propene	100	1.7		ug/m3	250788	2	10/31/2017 23:28	MD
Styrene	BRL	4.3		ug/m3	250788	2	10/31/2017 23:28	MD
Tetrachloroethene	230	6.8		ug/m3	250788	2	10/31/2017 23:28	MD
Tetrahydrofuran	BRL	2.9		ug/m3	250788	2	10/31/2017 23:28	MD
Toluene	4.5	3.8		ug/m3	250788	2	10/31/2017 23:28	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/m3	250788	2	10/31/2017 23:28	MD
trans-1,3-Dichloropropene	BRL	4.5		ug/m3	250788	2	10/31/2017 23:28	MD
Trichloroethene	BRL	5.4		ug/m3	250788	2	10/31/2017 23:28	MD
Trichlorofluoromethane	BRL	5.6		ug/m3	250788	2	10/31/2017 23:28	MD
Vinyl acetate	BRL	3.5		ug/m3	250788	2	10/31/2017 23:28	MD
Vinyl bromide	BRL	4.4		ug/m3	250788	2	10/31/2017 23:28	MD
Vinyl chloride	BRL	2.6		ug/m3	250788	2	10/31/2017 23:28	MD
Xylenes, Total	BRL	13		ug/m3	250788	2	10/31/2017 23:28	MD
Surr: 4-Bromofluorobenzene	85	70-130		%REC	250788	2	10/31/2017 23:28	MD

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample Receipt Checklist for Air Canisters

Client Contour Engineering Work Order Number 1710S09

Checklist completed by Arielan Johnson October 30, 2017
Signature Date

Carrier name: FedEx____ UPS____ Courier X Client____ US Mail____ Other_____

Shipping container in good condition?	Yes ✓	No___	Not Present___
Custody seals intact on shipping container?	Yes___	No___	Not Present ✓
Chain of custody present?	Yes ✓	No___	
Chain of custody signed when relinquished and received?	Yes ✓	No___	
Chain of custody agrees with sample labels?	Yes___	No ✓	
Field data sheets present?	Yes ✓	No___	
Sample containers intact?	Yes ✓	No___	

If no, explain: _____

All samples received within holding time?	Yes ✓	No___	
Was TAT marked on the COC?	Yes ✓	No___	
Proceed with Standard TAT as per project history?	Yes ✓	No___	Not Applicable___
All canisters received per Bottle Order issued?	Yes ✓	No___	

See Case Narrative for resolution of the Non-Conformance.

Vapor_Checklist_7.26.2016_rev1

Client: Contour Engineering, LLC
Project Name: Kroger #676 Soil Vapor
Workorder: 1710S69

ANALYTICAL QC SUMMARY REPORT

BatchID: 250788

Sample ID: **MB-250788** Client ID: Units: **ppbv** Prep Date: **10/31/2017** Run No: **355979**
SampleType: **MBLK** TestCode: **Toxic Organic Compounds in Air by GCMS TO-15** BatchID: **250788** Analysis Date: **10/31/2017** Seq No: **7839350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.20									
1,1,2,2-Tetrachloroethane	BRL	0.20									
1,1,2-Trichloroethane	BRL	0.20									
1,1-Dichloroethane	BRL	0.20									
1,1-Dichloroethene	BRL	0.20									
1,2,4-Trichlorobenzene	BRL	0.20									
1,2,4-Trimethylbenzene	BRL	0.20									
1,2-Dibromoethane	BRL	0.20									
1,2-Dichlorobenzene	BRL	0.20									
1,2-Dichloroethane	BRL	0.20									
1,2-Dichloropropane	BRL	0.20									
1,3,5-Trimethylbenzene	BRL	0.20									
1,3-Butadiene	BRL	0.20									
1,3-Dichlorobenzene	BRL	0.20									
1,4-Dichlorobenzene	BRL	0.20									
1,4-Dioxane	BRL	0.20									
2,2,4-Trimethylpentane	BRL	0.20									
2-Butanone	BRL	0.20									
2-Hexanone	BRL	0.20									
4-Ethyltoluene	BRL	0.20									
4-Methyl-2-pentanone	BRL	0.20									
Acetone	BRL	1.0									
Allyl chloride	BRL	0.20									
Benzene	BRL	0.20									
Benzyl chloride	BRL	0.20									
Bromodichloromethane	BRL	0.20									
Bromoform	BRL	0.20									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Contour Engineering, LLC
Project Name: Kroger #676 Soil Vapor
Workorder: 1710S69

ANALYTICAL QC SUMMARY REPORT

BatchID: 250788

Sample ID: **MB-250788** Client ID: Units: **ppbv** Prep Date: **10/31/2017** Run No: **355979**
SampleType: **MBLK** TestCode: **Toxic Organic Compounds in Air by GCMS TO-15** BatchID: **250788** Analysis Date: **10/31/2017** Seq No: **7839350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromomethane	BRL	0.20									
Carbon disulfide	BRL	0.20									
Carbon tetrachloride	BRL	0.20									
Chlorobenzene	BRL	0.20									
Chloroethane	BRL	0.20									
Chloroform	BRL	0.20									
Chloromethane	BRL	0.20									
cis-1,2-Dichloroethene	BRL	0.20									
cis-1,3-Dichloropropene	BRL	0.20									
Cyclohexane	BRL	0.20									
Dibromochloromethane	BRL	0.20									
Dichlorodifluoromethane	BRL	0.20									
Ethyl acetate	BRL	0.20									
Ethylbenzene	BRL	0.20									
Freon-113	BRL	0.20									
Freon-114	BRL	0.20									
Hexachlorobutadiene	BRL	0.20									
Isopropyl alcohol	BRL	1.5									
m,p-Xylene	BRL	0.40									
Methyl tert-butyl ether	BRL	0.20									
Methylene chloride	BRL	0.20									
n-Heptane	BRL	0.20									
n-Hexane	BRL	0.20									
o-Xylene	BRL	0.20									
Propene	BRL	0.20									
Styrene	BRL	0.20									
Tetrachloroethene	BRL	0.20									

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Contour Engineering, LLC
Project Name: Kroger #676 Soil Vapor
Workorder: 1710S69

ANALYTICAL QC SUMMARY REPORT

BatchID: 250788

Sample ID: **MB-250788** Client ID: Units: **ppbv** Prep Date: **10/31/2017** Run No: **355979**
SampleType: **MBLK** TestCode: **Toxic Organic Compounds in Air by GCMS TO-15** BatchID: **250788** Analysis Date: **10/31/2017** Seq No: **7839350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Tetrahydrofuran	BRL	0.20									
Toluene	BRL	0.20									
trans-1,2-Dichloroethene	BRL	0.20									
trans-1,3-Dichloropropene	BRL	0.20									
Trichloroethene	BRL	0.20									
Trichlorofluoromethane	BRL	0.20									
Vinyl acetate	BRL	0.20									
Vinyl bromide	BRL	0.20									
Vinyl chloride	BRL	0.20									
Xylenes, Total	BRL	0.60									
Surr: 4-Bromofluorobenzene	3.330	0	4.000		83.2	70	130				

Sample ID: **LCS-250788** Client ID: Units: **ppbv** Prep Date: **10/31/2017** Run No: **355979**
SampleType: **LCS** TestCode: **Toxic Organic Compounds in Air by GCMS TO-15** BatchID: **250788** Analysis Date: **10/31/2017** Seq No: **7839351**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1.930	0.20	2.000		96.5	70	130				
1,1,2,2-Tetrachloroethane	2.150	0.20	2.000		108	70	130				
1,1,2-Trichloroethane	1.940	0.20	2.000		97.0	70	130				
1,1-Dichloroethane	1.910	0.20	2.000		95.5	70	130				
1,1-Dichloroethene	1.780	0.20	2.000		89.0	70	130				
1,2,4-Trichlorobenzene	1.940	0.20	2.000		97.0	70	130				
1,2,4-Trimethylbenzene	2.060	0.20	2.000		103	70	130				
1,2-Dibromoethane	2.110	0.20	2.000		106	70	130				
1,2-Dichlorobenzene	2.100	0.20	2.000		105	70	130				
1,2-Dichloroethane	2.040	0.20	2.000		102	70	130				
1,2-Dichloropropane	1.920	0.20	2.000		96.0	70	130				
1,3,5-Trimethylbenzene	2.170	0.20	2.000		108	70	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Contour Engineering, LLC
Project Name: Kroger #676 Soil Vapor
Workorder: 1710S69

ANALYTICAL QC SUMMARY REPORT

BatchID: 250788

Sample ID: **LCS-250788** Client ID: Units: **ppbv** Prep Date: **10/31/2017** Run No: **355979**
SampleType: **LCS** TestCode: **Toxic Organic Compounds in Air by GCMS TO-15** BatchID: **250788** Analysis Date: **10/31/2017** Seq No: **7839351**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,3-Butadiene	1.890	0.20	2.000		94.5	70	130				
1,3-Dichlorobenzene	2.120	0.20	2.000		106	70	130				
1,4-Dichlorobenzene	2.170	0.20	2.000		108	70	130				
1,4-Dioxane	1.980	0.20	2.000		99.0	70	130				
2,2,4-Trimethylpentane	1.950	0.20	2.000		97.5	70	130				
2-Butanone	1.810	0.20	2.000		90.5	70	130				
2-Hexanone	2.310	0.20	2.000		116	70	130				
4-Ethyltoluene	2.040	0.20	2.000		102	70	130				
4-Methyl-2-pentanone	1.990	0.20	2.000		99.5	70	130				
Acetone	1.830	1.0	2.000		91.5	70	130				
Allyl chloride	1.850	0.20	2.000		92.5	70	130				
Benzene	1.950	0.20	2.000		97.5	70	130				
Benzyl chloride	2.110	0.20	2.000		106	70	130				
Bromodichloromethane	1.970	0.20	2.000		98.5	70	130				
Bromoform	2.130	0.20	2.000		106	70	130				
Bromomethane	1.870	0.20	2.000		93.5	70	130				
Carbon disulfide	1.840	0.20	2.000		92.0	70	130				
Carbon tetrachloride	1.970	0.20	2.000		98.5	70	130				
Chlorobenzene	2.130	0.20	2.000		106	70	130				
Chloroethane	1.830	0.20	2.000		91.5	70	130				
Chloroform	1.920	0.20	2.000		96.0	70	130				
Chloromethane	1.840	0.20	2.000		92.0	70	130				
cis-1,2-Dichloroethene	1.830	0.20	2.000		91.5	70	130				
cis-1,3-Dichloropropene	1.950	0.20	2.000		97.5	70	130				
Cyclohexane	1.870	0.20	2.000		93.5	70	130				
Dibromochloromethane	2.150	0.20	2.000		108	70	130				
Dichlorodifluoromethane	1.850	0.20	2.000		92.5	70	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Contour Engineering, LLC
Project Name: Kroger #676 Soil Vapor
Workorder: 1710S69

ANALYTICAL QC SUMMARY REPORT

BatchID: 250788

Sample ID: **LCS-250788** Client ID: Units: **ppbv** Prep Date: **10/31/2017** Run No: **355979**
SampleType: **LCS** TestCode: **Toxic Organic Compounds in Air by GCMS TO-15** BatchID: **250788** Analysis Date: **10/31/2017** Seq No: **7839351**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Ethyl acetate	1.880	0.20	2.000		94.0	70	130				
Ethylbenzene	2.090	0.20	2.000		104	70	130				
Freon-113	1.890	0.20	2.000		94.5	70	130				
Freon-114	1.850	0.20	2.000		92.5	70	130				
Hexachlorobutadiene	2.070	0.20	2.000		104	70	130				
Isopropyl alcohol	1.930	1.5	2.000		96.5	70	130				
m,p-Xylene	4.350	0.40	4.000		109	70	130				
Methyl tert-butyl ether	1.830	0.20	2.000		91.5	70	130				
Methylene chloride	1.780	0.20	2.000		89.0	70	130				
n-Heptane	1.930	0.20	2.000		96.5	70	130				
n-Hexane	1.840	0.20	2.000		92.0	70	130				
o-Xylene	2.160	0.20	2.000		108	70	130				
Propene	1.680	0.20	2.000		84.0	70	130				
Styrene	2.060	0.20	2.000		103	70	130				
Tetrachloroethene	2.150	0.20	2.000		108	70	130				
Tetrahydrofuran	1.840	0.20	2.000		92.0	70	130				
Toluene	1.910	0.20	2.000		95.5	70	130				
trans-1,2-Dichloroethene	1.860	0.20	2.000		93.0	70	130				
trans-1,3-Dichloropropene	1.920	0.20	2.000		96.0	70	130				
Trichloroethene	1.950	0.20	2.000		97.5	70	130				
Trichlorofluoromethane	1.900	0.20	2.000		95.0	70	130				
Vinyl acetate	1.780	0.20	2.000		89.0	70	130				
Vinyl bromide	1.860	0.20	2.000		93.0	70	130				
Vinyl chloride	1.860	0.20	2.000		93.0	70	130				
Xylenes, Total	6.510	0.60	6.000		108	70	130				
Surr: 4-Bromofluorobenzene	3.520	0	4.000		88.0	70	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Contour Engineering, LLC
Project Name: Kroger #676 Soil Vapor
Workorder: 1710S69

ANALYTICAL QC SUMMARY REPORT

BatchID: 250788

Sample ID: **1710S77-002ADUP** Client ID: Units: **ppbv** Prep Date: **10/31/2017** Run No: **355979**
SampleType: **DUP** TestCode: **Toxic Organic Compounds in Air by GCMS TO-15** BatchID: **250788** Analysis Date: **11/01/2017** Seq No: **7839362**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	0.20						0	0	25	
1,1,2,2-Tetrachloroethane	BRL	0.20						0	0	25	
1,1,2-Trichloroethane	BRL	0.20						0	0	25	
1,1-Dichloroethane	BRL	0.20						0	0	25	
1,1-Dichloroethene	BRL	0.20						0	0	25	
1,2,4-Trichlorobenzene	BRL	0.20						0	0	25	
1,2,4-Trimethylbenzene	0.3100	0.20						0.3100	0	25	
1,2-Dibromoethane	BRL	0.20						0	0	25	
1,2-Dichlorobenzene	BRL	0.20						0	0	25	
1,2-Dichloroethane	BRL	0.20						0	0	25	
1,2-Dichloropropane	BRL	0.20						0	0	25	
1,3,5-Trimethylbenzene	BRL	0.20						0.07000	0	25	
1,3-Butadiene	BRL	0.20						0	0	25	
1,3-Dichlorobenzene	BRL	0.20						0	0	25	
1,4-Dichlorobenzene	BRL	0.20						0	0	25	
1,4-Dioxane	BRL	0.20						0	0	25	
2,2,4-Trimethylpentane	BRL	0.20						0.08000	0	25	
2-Butanone	BRL	0.20						0	0	25	
2-Hexanone	BRL	0.20						0	0	25	
4-Ethyltoluene	BRL	0.20						0	0	25	
4-Methyl-2-pentanone	BRL	0.20						0	0	25	
Acetone	1.430	1.0						1.480	3.44	25	
Allyl chloride	BRL	0.20						0	0	25	
Benzene	BRL	0.20						0.1300	0	25	
Benzyl chloride	BRL	0.20						0	0	25	
Bromodichloromethane	BRL	0.20						0	0	25	
Bromoform	BRL	0.20						0	0	25	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Contour Engineering, LLC
Project Name: Kroger #676 Soil Vapor
Workorder: 1710S69

ANALYTICAL QC SUMMARY REPORT

BatchID: 250788

Sample ID: **1710S77-002ADUP** Client ID: Units: **ppbv** Prep Date: **10/31/2017** Run No: **355979**
SampleType: **DUP** TestCode: **Toxic Organic Compounds in Air by GCMS TO-15** BatchID: **250788** Analysis Date: **11/01/2017** Seq No: **7839362**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Bromomethane	BRL	0.20						0	0	25	
Carbon disulfide	BRL	0.20						0.06000	0	25	
Carbon tetrachloride	BRL	0.20						0.09000	0	25	
Chlorobenzene	BRL	0.20						0	0	25	
Chloroethane	BRL	0.20						0	0	25	
Chloroform	BRL	0.20						0.09000	0	25	
Chloromethane	0.3300	0.20						0.3700	11.4	25	
cis-1,2-Dichloroethene	BRL	0.20						0	0	25	
cis-1,3-Dichloropropene	BRL	0.20						0	0	25	
Cyclohexane	BRL	0.20						0	0	25	
Dibromochloromethane	BRL	0.20						0	0	25	
Dichlorodifluoromethane	BRL	0.20						0	0	25	
Ethyl acetate	BRL	0.20						0	0	25	
Ethylbenzene	BRL	0.20						0.06000	0	25	
Freon-113	BRL	0.20						0.09000	0	25	
Freon-114	BRL	0.20						0	0	25	
Hexachlorobutadiene	BRL	0.20						0	0	25	
Isopropyl alcohol	BRL	1.5						0	0	25	
m,p-Xylene	BRL	0.40						0.1500	0	25	
Methyl tert-butyl ether	BRL	0.20						0	0	25	
Methylene chloride	BRL	0.20						0.1700	0	25	
n-Heptane	BRL	0.20						0	0	25	
n-Hexane	0.2200	0.20						0.2300	4.44	25	
o-Xylene	BRL	0.20						0.06000	0	25	
Propene	BRL	0.20						0	0	25	
Styrene	BRL	0.20						0	0	25	
Tetrachloroethene	2.240	0.20						2.280	1.77	25	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Contour Engineering, LLC
Project Name: Kroger #676 Soil Vapor
Workorder: 1710S69

ANALYTICAL QC SUMMARY REPORT

BatchID: 250788

Sample ID: **1710S77-002ADUP** Client ID:
SampleType: **DUP** TestCode: **Toxic Organic Compounds in Air by GCMS TO-15**
Units: **ppbv** Prep Date: **10/31/2017** Run No: **355979**
BatchID: **250788** Analysis Date: **11/01/2017** Seq No: **7839362**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Tetrahydrofuran	BRL	0.20						0	0	25	
Toluene	0.2100	0.20						0.2100	0	25	
trans-1,2-Dichloroethene	BRL	0.20						0	0	25	
trans-1,3-Dichloropropene	BRL	0.20						0	0	25	
Trichloroethene	BRL	0.20						0	0	25	
Trichlorofluoromethane	0.2300	0.20						0.2300	0	25	
Vinyl acetate	BRL	0.20						0	0	25	
Vinyl bromide	BRL	0.20						0	0	25	
Vinyl chloride	BRL	0.20						0	0	25	
Xylenes, Total	BRL	0.60						0.2100	0	25	
Surr: 4-Bromofluorobenzene	3.360	0	4.000		84.0	70	130	3.280	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Appendix E
VISL Screening Results

SVI-1

OSWER VAPOR INTRUSION ASSESSMENT

Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration Csg (ug/m^3)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR ($(ug/m^3)^{-1}$)	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
67-64-1	Acetone	4.8E+01	1.44E+00	No IUR	1.1E-05			3.10E+01	A	
75-15-0	Carbon Disulfide	9.0E+00	2.70E-01	No IUR	8.8E-05			7.00E-01	I	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	8.0E+00	2.40E-01	No IUR	1.1E-05			5.00E+00	I	
127-18-4	Tetrachloroethylene	9.5E+02	2.85E+01	6.0E-07	1.6E-01	2.60E-07	I	4.00E-02	I	
109-99-9	Tetrahydrofuran	9.3E+00	2.79E-01	No IUR	3.2E-05			2.00E+00	I	
		Cumulative	**3.07E+01**	**6.04E-07**	**1.63E-01**					

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Averaging time for carcinogens	(yrs)	ATc_R_SG	70	ATc_C_SG	70	ATc_SG	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_SG	26	ATnc_C_SG	25	ATnc_SG	25
Exposure duration	(yrs)	ED_R_SG	26	ED_C_SG	25	ED_SG	25
Exposure frequency	(days/yr)	EF_R_SG	350	EF_C_SG	250	EF_SG	250
Exposure time	(hr/day)	ET_R_SG	24	ET_C_SG	8	ET_SG	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors		Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Groundwater	(-)	AFgw_R_SG	0.001	AFgw_C_SG	0.001	AFgw_SG	0.001
Sub-Slab and Exterior Soil Gas	(-)	AFss_R_SG	0.03	AFss_C_SG	0.03	AFss_SG	0.03

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene

	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
	mIURTCE_R_SG	1.00E-06	mIURTCE_C_SG	0.00E+00	mIURTCE_SG	0.00E+00
	IURTCE_R_SG	3.10E-06	IURTCE_C_SG	4.10E-06	IURTCE_SG	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp

OSWER VAPOR INTRUSION ASSESSMENT

Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard	Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator
		Csg	Cia	CR	HQ	IUR		RfC		
		(ug/m^3)	(ug/m^3)			(ug/m^3)$^{-1}$		(mg/m^3)		i

H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

SVI-2

OSWER VAPOR INTRUSION ASSESSMENT

Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration Csg (ug/m^3)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR ($(ug/m^3)^{-1}$)	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
67-64-1	Acetone	3.0E+01	9.00E-01	No IUR	6.6E-06			3.10E+01	A	
110-54-3	Hexane, N-	2.7E+01	8.10E-01	No IUR	2.6E-04			7.00E-01	I	
75-09-2	Methylene Chloride	1.7E+02	5.10E+00	4.2E-09	1.9E-03	1.00E-08	I	6.00E-01	I	Mut
127-18-4	Tetrachloroethylene	2.7E+03	8.10E+01	1.7E-06	4.6E-01	2.60E-07	I	4.00E-02	I	
108-88-3	Toluene	1.1E+01	3.30E-01	No IUR	1.5E-05			5.00E+00	I	
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.3E+01	9.90E-01	No IUR	4.5E-05			5.00E+00	P	
		Cumulative	**8.91E+01**	**1.72E-06**	**4.65E-01**					

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Averaging time for carcinogens	(yrs)	ATc_R_SG	70	ATc_C_SG	70	ATc_SG	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_SG	26	ATnc_C_SG	25	ATnc_SG	25
Exposure duration	(yrs)	ED_R_SG	26	ED_C_SG	25	ED_SG	25
Exposure frequency	(days/yr)	EF_R_SG	350	EF_C_SG	250	EF_SG	250
Exposure time	(hr/day)	ET_R_SG	24	ET_C_SG	8	ET_SG	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors		Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Groundwater	(-)	AFgw_R_SG	0.001	AFgw_C_SG	0.001	AFgw_SG	0.001
Sub-Slab and Exterior Soil Gas	(-)	AFss_R_SG	0.03	AFss_C_SG	0.03	AFss_SG	0.03

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
	mIURTCE_R_SG	1.00E-06	mIURTCE_C_SG	0.00E+00	mIURTCE_SG	0.00E+00
	IURTCE_R_SG	3.10E-06	IURTCE_C_SG	4.10E-06	IURTCE_SG	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html

OSWER VAPOR INTRUSION ASSESSMENT
Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard	Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator
		Csg	Cia	CR	HQ	IUR		RfC		
		(ug/m^3)	(ug/m^3)			(ug/m^3)$^{-1}$		(mg/m^3)		i

CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

SVI-3

OSWER VAPOR INTRUSION ASSESSMENT

Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration Csg (ug/m^3)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ
127-18-4	Tetrachloroethylene	2.0E+02	6.00E+00	1.3E-07	3.4E-02
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.8E+01	5.40E-01	No IUR	2.5E-05
		Cumulative	**6.54E+00**	**1.27E-07**	**3.43E-02**

Inhalation Unit Risk IUR ($ug/m^3)^{-1}$	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
2.60E-07	I	4.00E-02	I	
		5.00E+00	P	

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Averaging time for carcinogens	(yrs)	ATc_R_SG	70	ATc_C_SG	70	ATc_SG	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_SG	26	ATnc_C_SG	25	ATnc_SG	25
Exposure duration	(yrs)	ED_R_SG	26	ED_C_SG	25	ED_SG	25
Exposure frequency	(days/yr)	EF_R_SG	350	EF_C_SG	250	EF_SG	250
Exposure time	(hr/day)	ET_R_SG	24	ET_C_SG	8	ET_SG	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Groundwater (-)	AFgw_R_SG	0.001	AFgw_C_SG	0.001	AFgw_SG	0.001
Sub-Slab and Exterior Soil Gas (-)	AFss_R_SG	0.03	AFss_C_SG	0.03	AFss_SG	0.03

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
	mIURTCE_R_SG	1.00E-06	mIURTCE_C_SG	0.00E+00	mIURTCE_SG	0.00E+00
	IURTCE_R_SG	3.10E-06	IURTCE_C_SG	4.10E-06	IURTCE_SG	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix

OSWER VAPOR INTRUSION ASSESSMENT

Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard	Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator
		Csg	Cia	CR	HQ	IUR		RfC		
		(ug/m^3)	(ug/m^3)			(ug/m^3)$^{-1}$		(mg/m^3)		i

Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

SVI-4

OSWER VAPOR INTRUSION ASSESSMENT

Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration Csg (ug/m^3)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR ($(ug/m^3)^{-1}$)	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
67-64-1	Acetone	1.9E+01	5.70E-01	No IUR	4.2E-06			3.10E+01	A	
75-15-0	Carbon Disulfide	3.1E+00	9.30E-02	No IUR	3.0E-05			7.00E-01	I	
67-66-3	Chloroform	6.6E+00	1.98E-01	3.7E-07	4.6E-04	2.30E-05	I	9.80E-02	A	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	7.7E+00	2.31E-01	No IUR	1.1E-05			5.00E+00	I	
127-18-4	Tetrachloroethylene	9.5E+02	2.85E+01	6.0E-07	1.6E-01	2.60E-07	I	4.00E-02	I	
108-88-3	Toluene	3.8E+00	1.14E-01	No IUR	5.2E-06			5.00E+00	I	
		Cumulative	**2.97E+01**	**9.76E-07**	**1.63E-01**					

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Averaging time for carcinogens	(yrs)	ATc_R_SG	70	ATc_C_SG	70	ATc_SG	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_SG	26	ATnc_C_SG	25	ATnc_SG	25
Exposure duration	(yrs)	ED_R_SG	26	ED_C_SG	25	ED_SG	25
Exposure frequency	(days/yr)	EF_R_SG	350	EF_C_SG	250	EF_SG	250
Exposure time	(hr/day)	ET_R_SG	24	ET_C_SG	8	ET_SG	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors		Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Groundwater	(-)	AFgw_R_SG	0.001	AFgw_C_SG	0.001	AFgw_SG	0.001
Sub-Slab and Exterior Soil Gas	(-)	AFss_R_SG	0.03	AFss_C_SG	0.03	AFss_SG	0.03

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
	mIURTCE_R_SG	1.00E-06	mIURTCE_C_SG	0.00E+00	mIURTCE_SG	0.00E+00
	IURTCE_R_SG	3.10E-06	IURTCE_C_SG	4.10E-06	IURTCE_SG	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml
A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html

OSWER VAPOR INTRUSION ASSESSMENT
Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard	Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator
		Csg	Cia	CR	HQ	IUR		RfC		
		(ug/m^3)	(ug/m^3)			(ug/m^3)$^{-1}$		(mg/m^3)		i

CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

SVI-5

OSWER VAPOR INTRUSION ASSESSMENT

Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration Csg (ug/m^3)	Calculated Indoor Air Concentration Cia (ug/m^3)	VI Carcinogenic Risk CR	VI Hazard HQ	Inhalation Unit Risk IUR ($(ug/m^3)^{-1}$)	IUR Source*	Reference Concentration RfC (mg/m^3)	RFC Source*	Mutagenic Indicator i
67-64-1	Acetone	3.6E+01	1.08E+00	No IUR	8.0E-06			3.10E+01	A	
75-15-0	Carbon Disulfide	4.7E+00	1.41E-01	No IUR	4.6E-05			7.00E-01	I	
110-54-3	Hexane, N-	7.0E+00	2.10E-01	No IUR	6.8E-05			7.00E-01	I	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	6.2E+00	1.86E-01	No IUR	8.5E-06			5.00E+00	I	
127-18-4	Tetrachloroethylene	2.3E+02	6.90E+00	1.5E-07	3.9E-02	2.60E-07	I	4.00E-02	I	
108-88-3	Toluene	4.5E+00	1.35E-01	No IUR	6.2E-06			5.00E+00	I	
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.0E+01	3.00E-01	No IUR	1.4E-05			5.00E+00	P	
		Cumulative	**8.95E+00**	**1.46E-07**	**3.95E-02**					

Notes:

(1) **Inhalation Pathway Exposure Parameters (RME):**

Exposure Scenario	Units	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Averaging time for carcinogens	(yrs)	ATc_R_SG	70	ATc_C_SG	70	ATc_SG	70
Averaging time for non-carcinogens	(yrs)	ATnc_R_SG	26	ATnc_C_SG	25	ATnc_SG	25
Exposure duration	(yrs)	ED_R_SG	26	ED_C_SG	25	ED_SG	25
Exposure frequency	(days/yr)	EF_R_SG	350	EF_C_SG	250	EF_SG	250
Exposure time	(hr/day)	ET_R_SG	24	ET_C_SG	8	ET_SG	8

(2) **Generic Attenuation Factors:**

Source Medium of Vapors	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
Groundwater (-)	AFgw_R_SG	0.001	AFgw_C_SG	0.001	AFgw_SG	0.001
Sub-Slab and Exterior Soil Gas (-)	AFss_R_SG	0.03	AFss_C_SG	0.03	AFss_SG	0.03

(3) **Formulas**

Cia, target = MIN(Cia,c; Cia,nc)
Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RfC x (1000 ug/mg) / (ED x EF x ET)

(4) **Special Case Chemicals**

Trichloroethylene	Residential Symbol	Residential Value	Commercial Symbol	Commercial Value	Selected (based on scenario) Symbol	Selected (based on scenario) Value
	mIURTCE_R_SG	1.00E-06	mIURTCE_C_SG	0.00E+00	mIURTCE_SG	0.00E+00
	IURTCE_R_SG	3.10E-06	IURTCE_C_SG	4.10E-06	IURTCE_SG	4.10E-06

Mutagenic Chemicals — The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.

Age Cohort	Exposure Duration	Age-dependent adjustment factor
0 - 2 years	2	10
2 - 6 years	4	3
6 - 16 years	10	3
16 - 26 years	10	1

Mutagenic-mode-of-action (MMOA) adjustment factor 25 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride — See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: http://www.epa.gov/iris/subst/index.html
P = PPRTV. EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: http://hhpprtv.ornl.gov/pprtv.shtml

OSWER VAPOR INTRUSION ASSESSMENT
Sub-slab or Exterior Soil Gas Concentration to Indoor Air Concentration (SGC-IAC) Calculator Version 3.5 June 2017 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Commercial	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR_SG	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ_SG	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)

CAS	Chemical Name	Site Sub-slab or Exterior Soil Gas Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard	Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator
		Csg	Cia	CR	HQ	IUR		RfC		
		(ug/m^3)	(ug/m^3)			(ug/m^3)$^{-1}$		(mg/m^3)		i

A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: http://www.atsdr.cdc.gov/mrls/index.html
CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: http://www.oehha.ca.gov/risk/ChemicalDB/index.asp
H = HEAST. EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: http://epa-heast.ornl.gov/heast.shtml
S = See RSL User Guide, Section 5
X = PPRTV Appendix
Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
Yellow highlighting indicates site-specific parameters that may be edited by the user.
Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

Appendix F
Soil Boring Logs

SOIL BORING LOG

BORING NO.	MW-1	**Drilling Method:**	HSA	**Page 1 of 1**
Project No.	ENMISC1326	**Sampling Method:**	Drill Cuttings	
Client:	The Kroger Company	**ENERCON Manager:**	C. McCoy	
Location:	Former Lucky Cleaners Augusta, Georgia	**Driller:**	LandProbe	

GROUNDWATER

Depth Below:	**Surface**	**Ref Point**	**Start Date:**	09.17.08
At Time of Boring:	~19'	Ground	**Comp Date:**	09.17.08
After One Week:	15.62'	Top of Casing	**Weather:**	overcast, 75 degrees F
Surface Conditions:	Dirt			

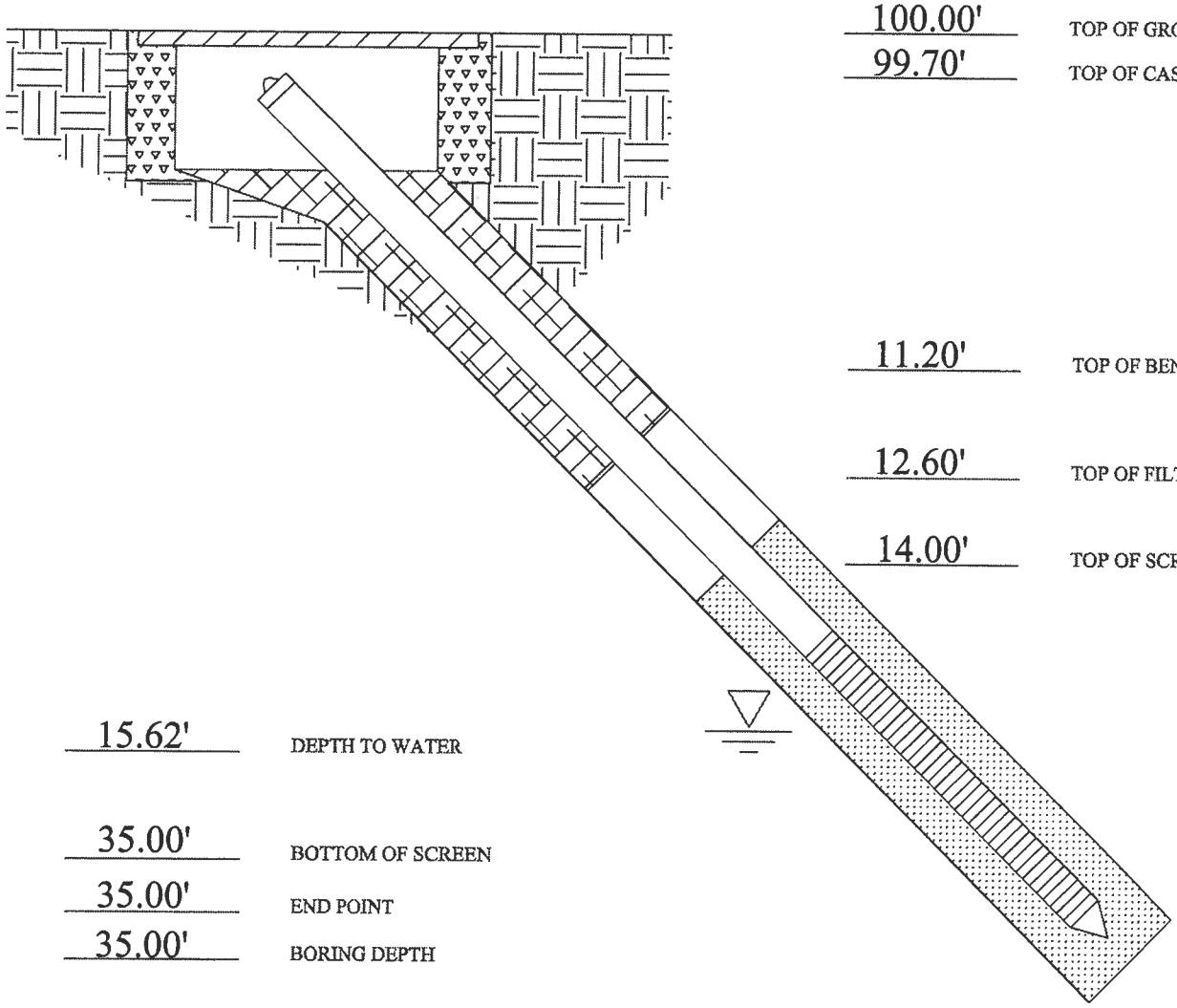
SAMPLE No.	Type	Dpth	Inch Drvn	Inch Rcvd	% Rcvd	Blows/ 6"	FID ppm	USC	DESCRIPTION:
		0 -							
0-3.5'		- 5 -	0	0	n/a	n/a	6.3	ML	Brown and Tan, Sandy SILT, Slightly Moist, No Odor
3.5-7'		- 10 -	0	0	n/a	n/a	49.9	ML	Brown, Sandy SILT, moist, No Odor
7-10.5'		-	0	0	n/a	n/a	23.6	ML	Brown, Sandy SILT, Moist, No Odor
10.5-14'		- 15 -	0	0	n/a	n/a	64.4	ML	Brown, Sandy SILT, Very Moist, No Odor
14-17.5'		- 20 -	0	0	n/a	n/a	126.9	ML	Brown, Sandy SILT, Very Moist to Saturated, No Odor Groundwater Encountered @ ~19' bgs
17.5-21'		-	0	0	n/a	n/a	36.8	ML	Brown, Sandy SILT with Some Clay, Saturated, No Odor
21-24.5'		25 -	0	0	n/a	n/a	15.5	ML	Brown, Sandy SILT with Some Clay, Saturated, No Odor
24.5-28'		- 30 -	0	0	n/a	n/a	n/a	CL	Gray, Fat CLAY Layer Between 28 and 30' bgs
28-31.5'		-	0	0	n/a	n/a	n/a	ML	Brown, Sandy SILT, Saturated, No Odor
31.5-35'		35 -	0	0	n/a	n/a	n/a		
		-							Boring Terminated @ ~35' bgs (50' drilled at 45 degree angle) Groundwater Encountered @ ~19' bgs **FID had background reading of 5.0ppm prior to reading collection**

SAMPLER TYPE:
GP - Geoprobe
HSA - Hollow Stem Auger
SS - Driven Split Spoon
SH - Pressured Shelby Tube
MC - Macro Core Sampler
OST - Osterberg Piston Sampler
DEN - Denison Core Barrel Sampler
SPT - Standard Penetration Test (ASTM D 1586-84)

Surface Elevation:	100.00'
Casing Below Surface:	99.70'
Reference Elevation:	100.00'
Reference Description:	MW-1 Top of Casing

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT	Former Lucky Cleaners	BOREHOLE SIZE	4.25 inches
PROJECT #	ENMISC1326	RISOR PIPE TYPE	2.0-inch, schedule 40 PVC
WELL #	MW-1	GROUT TYPE/LBS	Portland Type I
ENERCON REPRESENTATIVE	Carrie McCoy	BENTONITE TYPE/LBS	Pure Gold Bentonite Chips
METHOD/DATE DEVELOPED	09.22.08/Bailer	FILTER PACK TYPE/LBS	20/30 Rollo Washed Sand
DRILLER	LandProbe	SLOTTED SCREEN TYPE	0.01" slotted 2" sch40 PVC
TYPE OF WELL	Type II Monitoring Well	WATER ENCOUNTERED	~19'



100.00' TOP OF GROUND
99.70' TOP OF CASING
11.20' TOP OF BENTONITE
12.60' TOP OF FILTER PACK
14.00' TOP OF SCREEN
15.62' DEPTH TO WATER
35.00' BOTTOM OF SCREEN
35.00' END POINT
35.00' BORING DEPTH

Note: Well installed at 45 degree angle to a total horizontal depth of 50 feet bgs. All measurements shown above are with respect to vertical depth as measured from the ground surface.

ENERCON Services, Inc.

SOIL BORING LOG

BORING NO.	MW-2	**Drilling Method:**	HSA
Project No.	ENMISC1326	**Sampling Method:**	Drill Cuttings
Client:	The Kroger Company	**ENERCON Manager:**	C. McCoy
Location:	Former Lucky Cleaners Augusta, Georgia	**Driller:**	LandProbe

GROUNDWATER

Depth Below:	**Surface**	**Ref Point**	**Start Date:**	09.17.08
At Time of Boring:	~19'	Ground	**Comp Date:**	09.18.08
After One Week:	16.10'	Top of Casing	**Weather:**	clear, 85 degrees F
Surface Conditions:	Dirt			

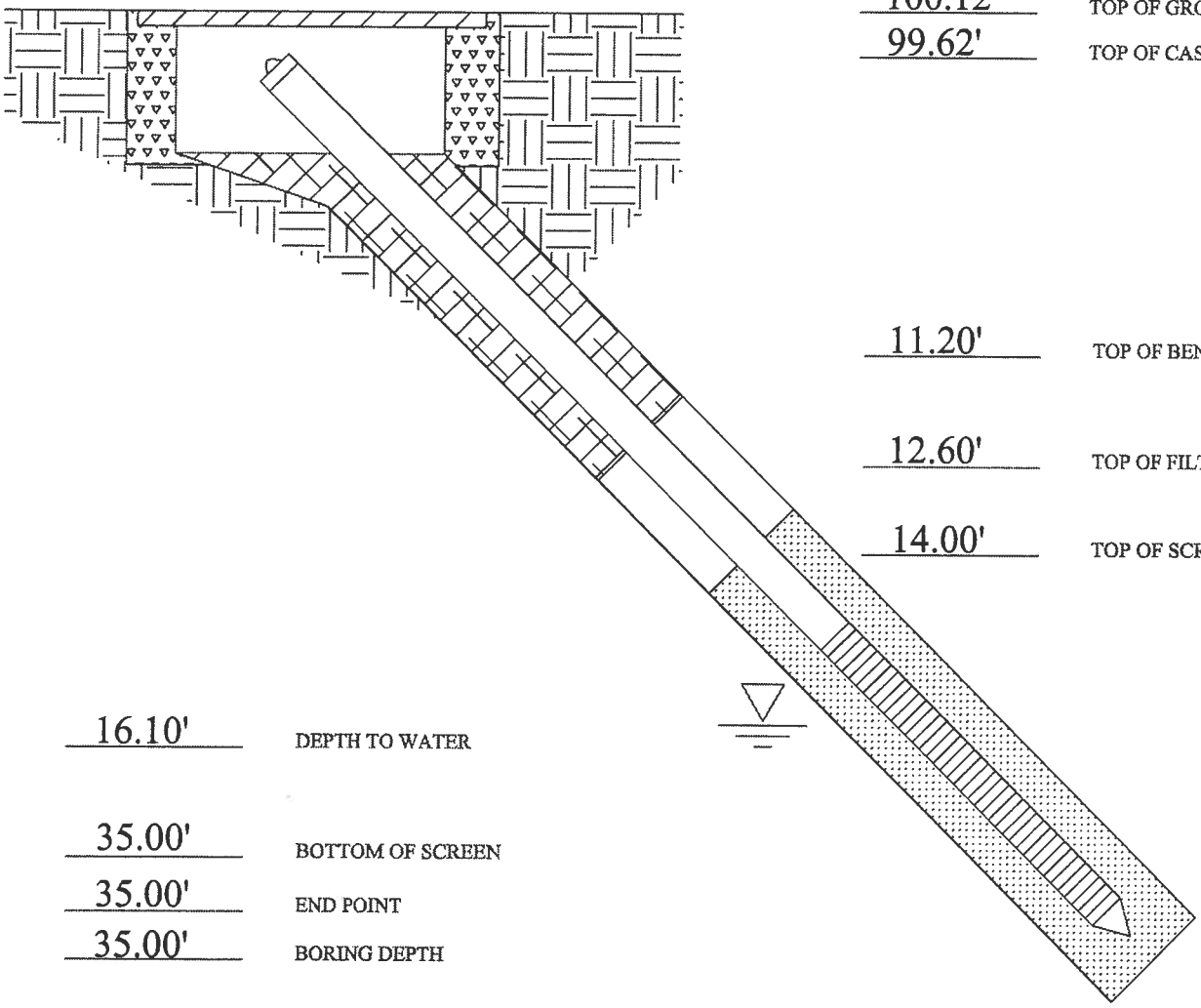
SAMPLE No.	Type	Dpth	Inch Drvn	Inch Rcvd	% Rcvd	Blows/ 6"	FID ppm	USC	DESCRIPTION:
		0 -							
0-3.5'		-	0	0	n/a	n/a	14.6	ML	Brown and Tan, Clayey SILT, Slightly Moist, No Odor
		5 -							
3.5-7'		-	0	0	n/a	n/a	50.0	ML	Brown and Tan, Clayey SILT, Moist, No Odor
		10 -							
7-10.5'		-	0	0	n/a	n/a	38.2	ML	Brown, Clayey SILT, Moist, No Odor
10.5-14'		-	0	0	n/a	n/a	64.8	ML	Brown, Clayey SILT with Trace Fine to Medium Gravel, Very Moist, No Odor
		15 -							
14-17.5'		-	0	0	n/a	n/a	71.4	ML	Reddish Brown, Clayey SILT with Moderate Sand and Gravel, Very Moist to Saturated, No Odor Groundwater Encountered @ ~19' bgs
		20 -							
17.5-21'		-	0	0	n/a	n/a	112.0	ML	Reddish Brown, Sandy, Clayey SILT, Saturated, No Odor
21-24.5'		25 -	0	0	n/a	n/a	95.5	ML	Brown, Sandy SILT with Some Clay, Saturated, No Odor
24.5-28'		-	0	0	n/a	n/a	n/a		
		30 -							
28-31.5'		-	0	0	n/a	n/a	n/a		
31.5-35'		35 -	0	0	n/a	n/a	n/a		
		-							Boring Terminated @ ~35' bgs (50' drilled at 45 degree angle) Groundwater Encountered @ ~19' bgs **FID had background reading of 6.5-7.2 ppm prior to reading collection*

SAMPLER TYPE:
GP - Geoprobe
HSA - Hollow Stem Auger
SS - Driven Split Spoon
SH - Pressured Shelby Tube
MC - Macro Core Sampler
OST - Osterberg Piston Sampler
DEN - Denison Core Barrel Sampler
SPT - Standard Penetration Test (ASTM D 1586-84)

Surface Elevation:	100.12'
Casing Below Surface:	99.62'
Reference Elevation:	100.00'
Reference Description:	MW-1 Top of Casing

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT	Former Lucky Cleaners	BOREHOLE SIZE	4.25 inches
PROJECT #	ENMISC1326	RISOR PIPE TYPE	2.0-inch, schedule 40 PVC
WELL #	MW-2	GROUT TYPE/LBS	Portland Type I
ENERCON REPRESENTATIVE	Carrie McCoy	BENTONITE TYPE/LBS	Pure Gold Bentonite Chips
METHOD/DATE DEVELOPED	09.22.08/Bailer	FILTER PACK TYPE/LBS	20/30 Rollo Washed Sand
DRILLER	LandProbe	SLOTTED SCREEN TYPE	0.01" slotted 2" sch40 PVC
TYPE OF WELL	Type II Monitoring Well	WATER ENCOUNTERED	~19'



100.12' TOP OF GROUND
99.62' TOP OF CASING
11.20' TOP OF BENTONITE
12.60' TOP OF FILTER PACK
14.00' TOP OF SCREEN
16.10' DEPTH TO WATER
35.00' BOTTOM OF SCREEN
35.00' END POINT
35.00' BORING DEPTH

Note: Well installed at 45 degree angle to a total horizontal depth of 50 feet bgs. All measurements shown above are with respect to vertical depth as measured from the ground surface.

ENERCON Services, Inc.

SOIL BORING LOG

BORING NO.	MW-3	**Drilling Method:**	HSA	**Page 1 of 1**
Project No.	ENMISC1326	**Sampling Method:**	Drill Cuttings	
Client:	The Kroger Company	**ENERCON Manager:**	C. McCoy	
Location:	Former Lucky Cleaners Augusta, Georgia	**Driller:**	LandProbe	

GROUNDWATER

Depth Below:	**Surface**	**Ref Point**	**Start Date:**	09.18.08
At Time of Boring:	~20'	Ground	**Comp Date:**	09.18.08
After One Week:	18.07'	Top of Casing	**Weather:**	clear, 85 degrees F
Surface Conditions:	Dirt			

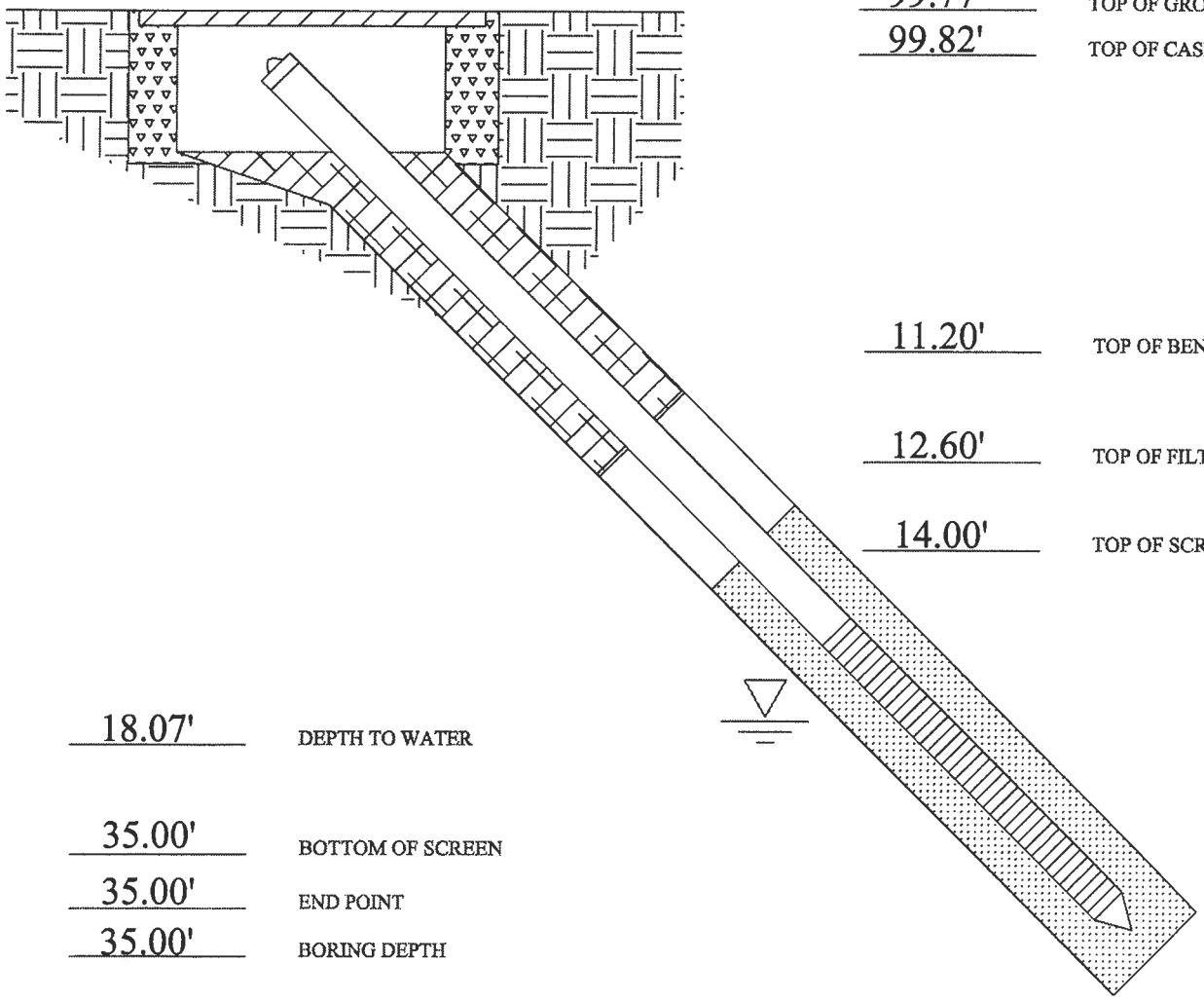
SAMPLE No.	Type	Dpth	Inch Drvn	Inch Rcvd	% Rcvd	Blows/ 6"	FID ppm	USC	DESCRIPTION:
		0							
0-3.5'		5	0	0	n/a	n/a	5.2	ML	Reddish Brown and Brown, Clayey SILT, Slightly Moist, No Odor
3.5-7'			0	0	n/a	n/a	25.8	ML	Brown, Clayey SILT with Trace Gravel, Moist, No Odor
7-10.5'		10	0	0	n/a	n/a	345.7	ML	Brown, Clayey SILT, Moist, No Odor
10.5-14'		15	0	0	n/a	n/a	77.1	ML	Brown, Clayey SILT with Trace Fine to Medium Gravel, Very Moist, No Odor
14-17.5'		20	0	0	n/a	n/a	57.5	ML	Brown, Clayey SILT with Trace Fine to Medium Gravel, Very Moist to Saturated, No Odor
									Groundwater Encountered @ ~20' bgs
17.5-21'			0	0	n/a	n/a	31.9	ML	Brown, Clayey SILT with Medium Gravel, Saturated, No Odor
									Lens of Very Solid PWR/Rock @ ~23.8-24.5' bgs
21-24.5'		25	0	0	n/a	n/a	n/a	ML	Brown, Clayey SILT with Medium Gravel, Saturated, No Odor
24.5-28'		30	0	0	n/a	n/a	n/a		
28-31.5'			0	0	n/a	n/a	n/a	ML	Gray and Tan, Clayey SILT with Medium Gravel and Moderate Organics @ ~31.5-33.6' bgs
								ML	Brown and Tan, Clayey SILT, Saturated, No Odor
31.5-35'		35	0	0	n/a	n/a	n/a		
									Boring Terminated @ ~35' bgs (50' drilled at 45 degree angle) Groundwater Encountered @ ~20' bgs

SAMPLER TYPE:
GP - Geoprobe
HSA - Hollow Stem Auger
SS - Driven Split Spoon
SH - Pressured Shelby Tube
MC - Macro Core Sampler
OST - Osterberg Piston Sampler
DEN - Denison Core Barrel Sampler
SPT - Standard Penetration Test (ASTM D 1586-84)

Surface Elevation:	99.77'
Casing Below Surface:	99.82'
Reference Elevation:	100.00'
Reference Description:	MW-1 Top of Casing

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT	Former Lucky Cleaners	BOREHOLE SIZE	4.25 inches
PROJECT #	ENMISC1326	RISOR PIPE TYPE	2.0-inch, schedule 40 PVC
WELL #	MW-3	GROUT TYPE/LBS	Portland Type I
ENERCON REPRESENTATIVE	Carrie McCoy	BENTONITE TYPE/LBS	Pure Gold Bentonite Chips
METHOD/DATE DEVELOPED	09.22.08/Bailer	FILTER PACK TYPE/LBS	20/30 Rollo Washed Sand
DRILLER	LandProbe	SLOTTED SCREEN TYPE	0.01" slotted 2" sch40 PVC
TYPE OF WELL	Type II Monitoring Well	WATER ENCOUNTERED	~20'



99.77' TOP OF GROUND

99.82' TOP OF CASING

11.20' TOP OF BENTONITE

12.60' TOP OF FILTER PACK

14.00' TOP OF SCREEN

18.07' DEPTH TO WATER

35.00' BOTTOM OF SCREEN

35.00' END POINT

35.00' BORING DEPTH

Note: Well installed at 45 degree angle to a total horizontal depth of 50 feet bgs. All measurements shown above are with respect to vertical depth as measured from the ground surface.

ENERCON Services, Inc.

ENERCON

BORING LOG

Client: Kroger Company
Project Name: Former Lucky Cleaners

Project Location: Augusta, GA
Project Number: KROGER110

Boring ID: MW-4

Drilling and Sampling Information

TOC Elevation (ft.): 98.95
Total Depth (ft.): 30
Start Date: 8/25/2011
Finish Date: 8/25/2011
Drilling Company: GeoLab
Drilled By: Don Phillips
Logged By: C. Sherman
Drilling Method: Auger
Borehole Diameter: 8.25 inches
Sampling Method: Split Spoon
Water Level(s): ~18.4

Boring Location: East of building, just north of MW-3

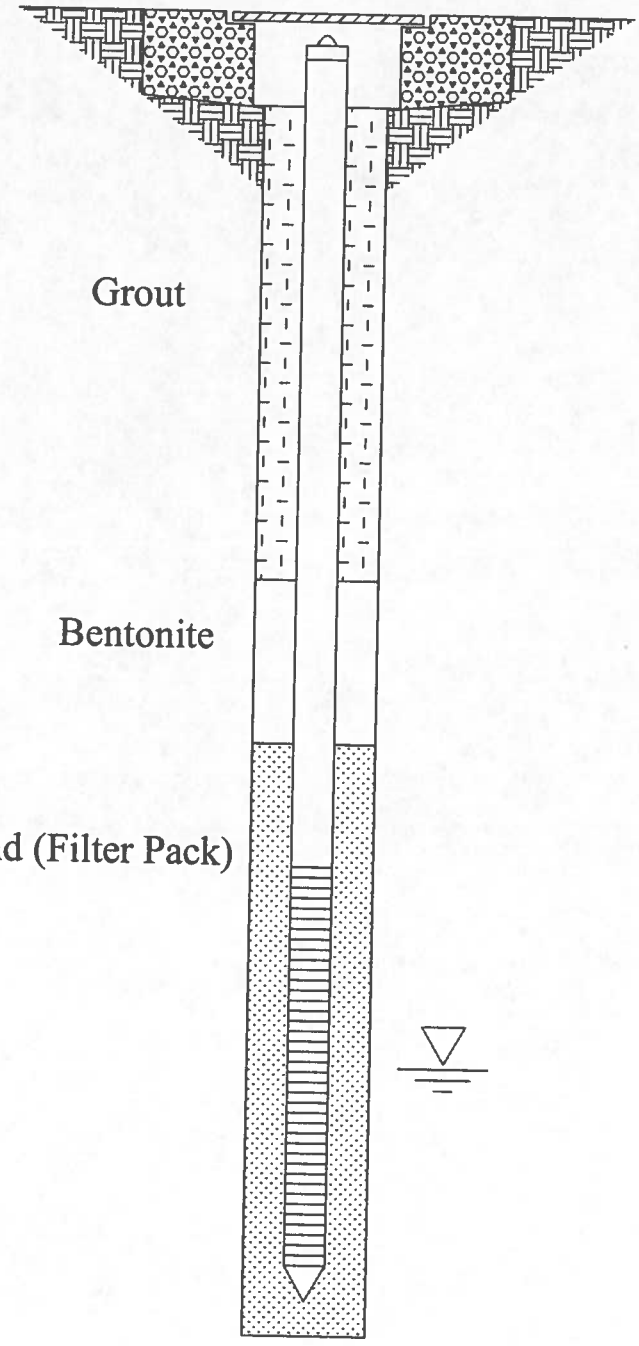
Notes: Collected soil sample from 15'
Screened well from 10 to 30 feet

***Highlighted areas indicate soil samples that were submitted for analysis.**

DEPTH IN FEET	DESCRIPTION	Sample No.	USCS	INCHES DRIVEN	INCHES RECOVERED	SAMPLE TYPE	BLOW COUNT	PID (ppm)
0	Vegetation at surface							
2	Tan, orange, no odor, fill, Silty Sand	1	SM	-	-	HA	-	0.0
4-6	Tan, orange, pieces of gravel, no odor, fill, Silty Sand	2	SM	24	24	SS	5-8-5-8	0.0
9-11	Same As Above (S.A.A.)	3	SM	24	24	SS	5-4-4-8	0.0
14-16	Tan, orange, moist, no odor, Silty Sand with some Clay	4	SM	24	18	SS	7-2-2-3	0.0
19-21	Tan, orange, moist, no odor, slighty micaceous, Silty Sand with pieces of rock	5	SM	24	24	SS	5-8-11-10	0.0
24-26	Tan, orange, wet, no odor, Silty Sand	6	SM	24	24	SS	3-4-5-8	0.0
30	Boring terminated.							

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT	Former Lucky Cleaners	BOREHOLE SIZE	4.25-inch diameter
PROJECT #	KROGER110	RISOR PIPE TYPE	2.0-inch, schedule 40 PVC
WELL #	MW-4	GROUT TYPE/LBS	Portland Type I
ENERCON REPRESENTATIVE	Chrissy Sherman	BENTONITE TYPE/LBS	Pure Gold Bentonite Chips
METHOD/DATE DEVELOPED	Bailer 8/25/11	FILTER PACK TYPE/LBS	20/30 Rollo Washed Sand
DRILLER	GeoLab	SLOTTED SCREEN TYPE	0.01" slotted 2" schedule 40 PVC
TYPE OF WELL	Type-II Monitoring Well	WATER ENCOUNTERED	18.36'



99.11'	TOP OF GROUND
98.95'	TOP OF CASING
6'	TOP OF BENTONITE
8'	TOP OF FILTER PACK
10'	TOP OF SCREEN
18.36'	DEPTH TO WATER
30'	BOTTOM OF SCREEN
30'	END POINT
30'	BORING DEPTH

Enercon Services, Inc.

ENERCON

BORING LOG

Client: Kroger Company
Project Name: Former Lucky Cleaners

Project Location: Augusta, GA
Project Number: KROGER110

Boring ID: MW-5

Drilling and Sampling Information

TOC Elevation (ft.)	100.21	Total Depth (ft.)	30
Start Date:	8/25/2011	Finish Date	8/25/2011
Drilling Company:	GeoLab		
Drilled By:	Don Phillips		
Logged By:	C. Sherman		
Drilling Method:	Auger		
Borehole Diameter:	8.25 inches		
Sampling Method:	Split Spoon		
Water Level(s):	~18.6		

Boring Location: East of building, just south of MW-1

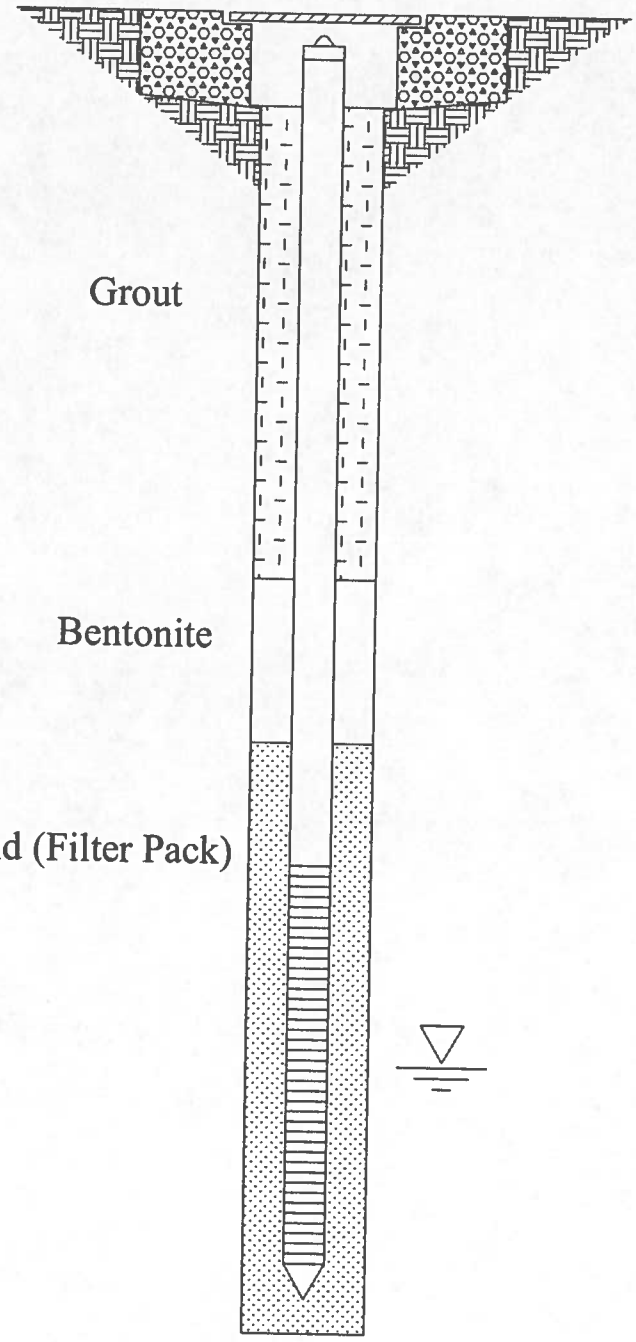
Notes: Collected soil sample from 15'
Screened well from 10 to 30 feet

***Highlighted areas indicate soil samples that were submitted for analysis.**

DEPTH IN FEET	DESCRIPTION	Sample No.	USCS	INCHES DRIVEN	INCHES RECOVERED	SAMPLE TYPE	BLOW COUNT	PID (ppm)
0	Vegetation at surface							
2	Tan, orange, no odor, fill, Silty Sand	1	SM	-	-	HA	-	0.0
4-6	Same As Above (S.A.A.)	2	SM	24	24	SS	3-4-5-5	0.0
9-11	S.A.A.	3	SM	24	24	SS	5-3-3-6	0.0
14-16	Tan, orange, rose, moist, no odor, Silty Sand with Clay with pieces of rock	4	SM	24	24	SS	3-3-5-7	0.0
19-21	S.A.A.	5	SM	24	24	SS	5-3-5-7	0.0
24-26	Tan, orange, wet, no odor, Silty Sand	6	SM	24	18	SS	3-4-6-7	0.0
30	Boring terminated.							

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT	Former Lucky Cleaners	BOREHOLE SIZE	4.25-inch diameter
PROJECT #	KROGER110	RISOR PIPE TYPE	2.0-inch, schedule 40 PVC
WELL #	MW-5	GROUT TYPE/LBS	Portland Type I
ENERCON REPRESENTATIVE	Chrissy Sherman	BENTONITE TYPE/LBS	Pure Gold Bentonite Chips
METHOD/DATE DEVELOPED	Bailer 8/25/11	FILTER PACK TYPE/LBS	20/30 Rollo Washed Sand
DRILLER	GeoLab	SLOTTED SCREEN TYPE	0.01" slotted 2" schedule 40 PVC
TYPE OF WELL	Type-II Monitoring Well	WATER ENCOUNTERED	17.85'



100.40'	TOP OF GROUND
100.21'	TOP OF CASING
6'	TOP OF BENTONITE
8'	TOP OF FILTER PACK
10'	TOP OF SCREEN
17.85'	DEPTH TO WATER
30'	BOTTOM OF SCREEN
30'	END POINT
30'	BORING DEPTH

Enercon Services, Inc.

ENERCON

BORING LOG

Client: Kroger Company
Project Name: Former Lucky Cleaners

Project Location: Augusta, GA
Project Number: KROGER110

Boring ID: MW-6

Drilling and Sampling Information

TOC Elevation (ft.)	100.94	Total Depth (ft.)	30
Start Date:	8/25/2011	Finish Date	8/25/2011
Drilling Company:	GeoLab		
Drilled By:	Don Phillips		
Logged By:	C. Sherman		
Drilling Method:	Auger		
Borehole Diameter:	8.25 inches		
Sampling Method:	Split Spoon		
Water Level(s):	~18.2		

Boring Location: South of building in concrete walkway

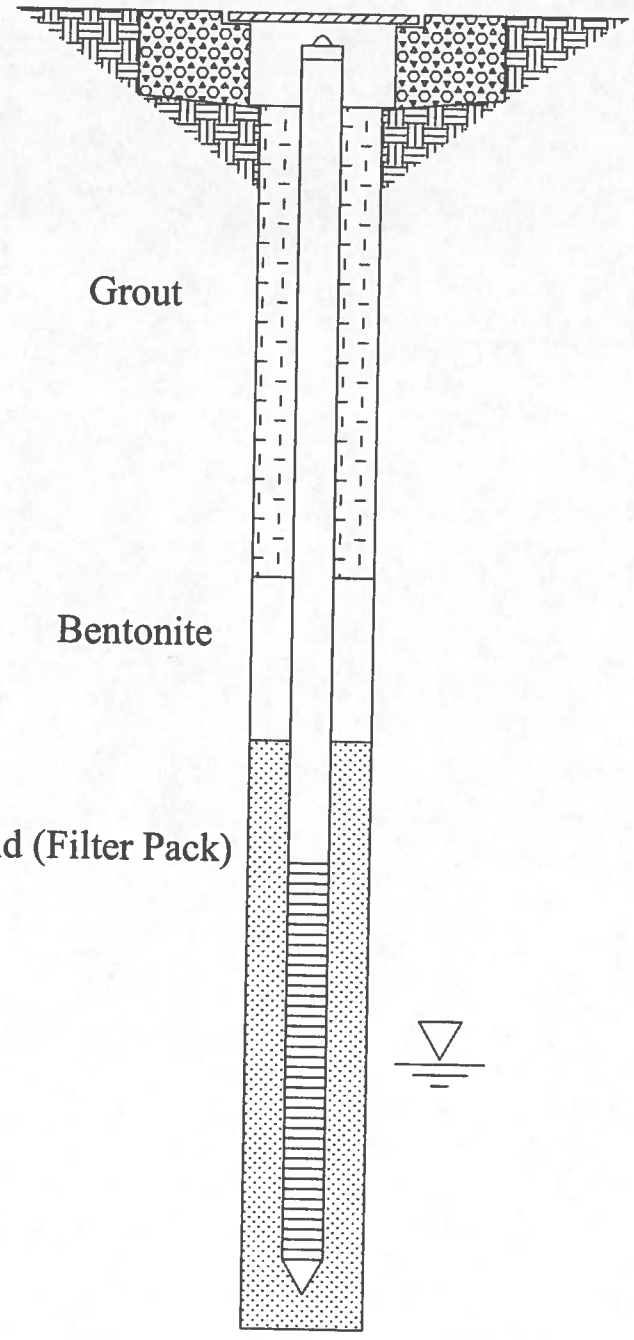
Notes: Collected soil sample from 15'
Screened well from 10 to 30 feet

***Highlighted areas indicate soil samples that were submitted for analysis.**

DEPTH IN FEET	DESCRIPTION	Sample No.	USCS	INCHES DRIVEN	INCHES RECOVERED	SAMPLE TYPE	BLOW COUNT	PID (ppm)
0	Concrete at surface							
2	Reddish orange, no odor, Silty Sand	1	SM	-	-	HA	-	0.0
4-6	Same As Above (S.A.A.)	2	SM	24	24	SS	3-1-2-4	0.0
9-11	Orange, tan, gray, black banding, micaceous, no odor, Silty Sand with pieces of rock	3	SM	24	24	SS	2-3-2-5	0.2
14-16	Brown, tan, gray,white, moderately micaceous, moist, no odor, Silty Sand with pieces of rock	4	SM	24	24	SS	3-4-4-3	0.8
19-21	Same As Above (S.A.A.)	5	SM	24	24	SS	3-4-5-7	5.0
24-26	Brown, tan, orange, saturated, no odor, Silty Sand	6	SM	24	24	SS	4-2-2-3	1,172
30	Boring terminated.							

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT Former Lucky Cleaners	BOREHOLE SIZE 4.25-inch diameter
PROJECT # KROGER110	RISOR PIPE TYPE 2.0-inch, schedule 40 PVC
WELL # MW-6	GROUT TYPE/LBS Portland Type I
ENERCON REPRESENTATIVE Chrissy Sherman	BENTONITE TYPE/LBS Pure Gold Bentonite Chips
METHOD/DATE DEVELOPED Bailer 8/25/11	FILTER PACK TYPE/LBS 20/30 Rollo Washed Sand
DRILLER GeoLab	SLOTTED SCREEN TYPE 0.01" slotted 2" schedule 40 PVC
TYPE OF WELL Type-II Monitoring Well	WATER ENCOUNTERED 18.83'



101.07'	TOP OF GROUND
100.94'	TOP OF CASING
6'	TOP OF BENTONITE
8'	TOP OF FILTER PACK
10'	TOP OF SCREEN
18.83'	DEPTH TO WATER
30'	BOTTOM OF SCREEN
30'	END POINT
30'	BORING DEPTH

Enercon Services, Inc.

ENERCON

BORING LOG

Client: Kroger Company
Project Name: Former Lucky Cleaners

Project Location: Augusta, GA
Project Number: KROGER110

Boring ID: MW-7

Drilling and Sampling Information

TOC Elevation (ft.): 100.91
Total Depth (ft.): 30
Start Date: 8/26/2011
Finish Date: 8/26/2011
Drilling Company: GeoLab
Drilled By: Don Phillips
Logged By: C. Sherman
Drilling Method: Auger
Borehole Diameter: 8.25 inches
Sampling Method: Split Spoon
Water Level(s): ~17.6

Boring Location: Southeast of building in landscaped area

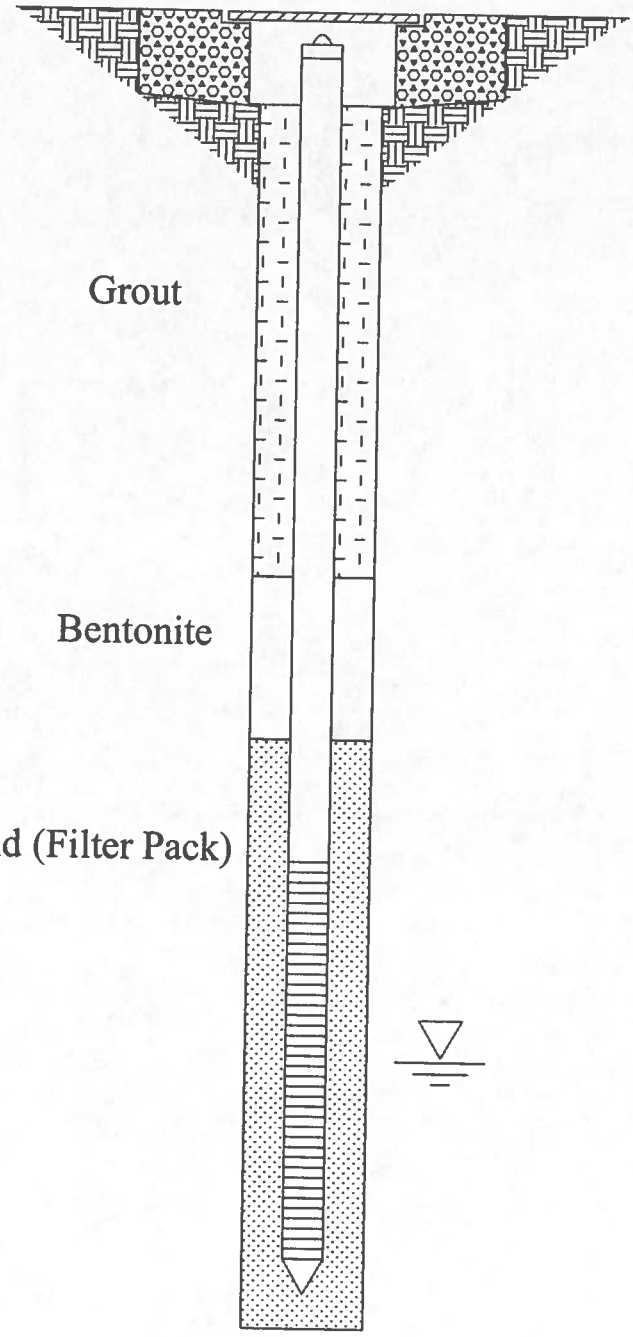
Notes: Collected soil sample from 15'
Screened well from 10 to 30 feet

***Highlighted areas indicate soil samples that were submitted for analysis.**

DEPTH IN FEET	DESCRIPTION	Sample No.	USCS	INCHES DRIVEN	INCHES RECOVERED	SAMPLE TYPE	BLOW COUNT	PID (ppm)
0	Vegetation at surface							
2	Tan, orange, no odor, fill, Silty Sand	1	SM	-	-	HA	-	0.0
4-6	Tan, orange, pieces of gravel, no odor, fill, Silty Sand	2	SM	24	24	SS	10-8-12-16	0.0
9-11	Same As Above (S.A.A.)	3	SM	24	24	SS	10-8-6-5	0.2
14-16	Tan, orange, gray, white, moist, no odor, Silty Sand	4	SM	24	24	SS	4-3-6-6	7.4
19-21	Orange, gray, moist, no odor, micaceous, Silty Sand with pieces of rock	5	SM	24	24	SS	8-6-7-6	17.8
24-26	Tan, orange, wet, no odor, Silty Sand with Clay	6	SM	24	24	SS	4-3-1-5	2.8
30	Boring terminated.							

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT	Former Lucky Cleaners	BOREHOLE SIZE	4.25-inch diameter
PROJECT #	KROGER110	RISOR PIPE TYPE	2.0-inch, schedule 40 PVC
WELL #	MW-7	GROUT TYPE/LBS	Portland Type I
ENERCON REPRESENTATIVE	Chrissy Sherman	BENTONITE TYPE/LBS	Pure Gold Bentonite Chips
METHOD/DATE DEVELOPED	Bailer 8/26/11	FILTER PACK TYPE/LBS	20/30 Rollo Washed Sand
DRILLER	GeoLab	SLOTTED SCREEN TYPE	0.01" slotted 2" schedule 40 PVC
TYPE OF WELL	Type-II Monitoring Well	WATER ENCOUNTERED	18.05'



101.10'	TOP OF GROUND
100.91'	TOP OF CASING
6'	TOP OF BENTONITE
8'	TOP OF FILTER PACK
10'	TOP OF SCREEN
18.05'	DEPTH TO WATER
30'	BOTTOM OF SCREEN
30'	END POINT
30'	BORING DEPTH

Enercon Services, Inc.

ENERCON

BORING LOG

Client: Kroger Company
Project Name: Former Lucky Cleaners

Project Location: Augusta, GA
Project Number: KROGER110

Boring ID: MW-8

Drilling and Sampling Information

TOC Elevation (ft.): 94.78
Total Depth (ft.): 30
Start Date: 8/26/2011
Finish Date: 8/26/2011
Drilling Company: GeoLab
Drilled By: Don Phillips
Logged By: C. Sherman
Drilling Method: Auger
Borehole Diameter: 8.25 inches
Sampling Method: Split Spoon
Water Level(s): Dry

Boring Location: Northeast of building

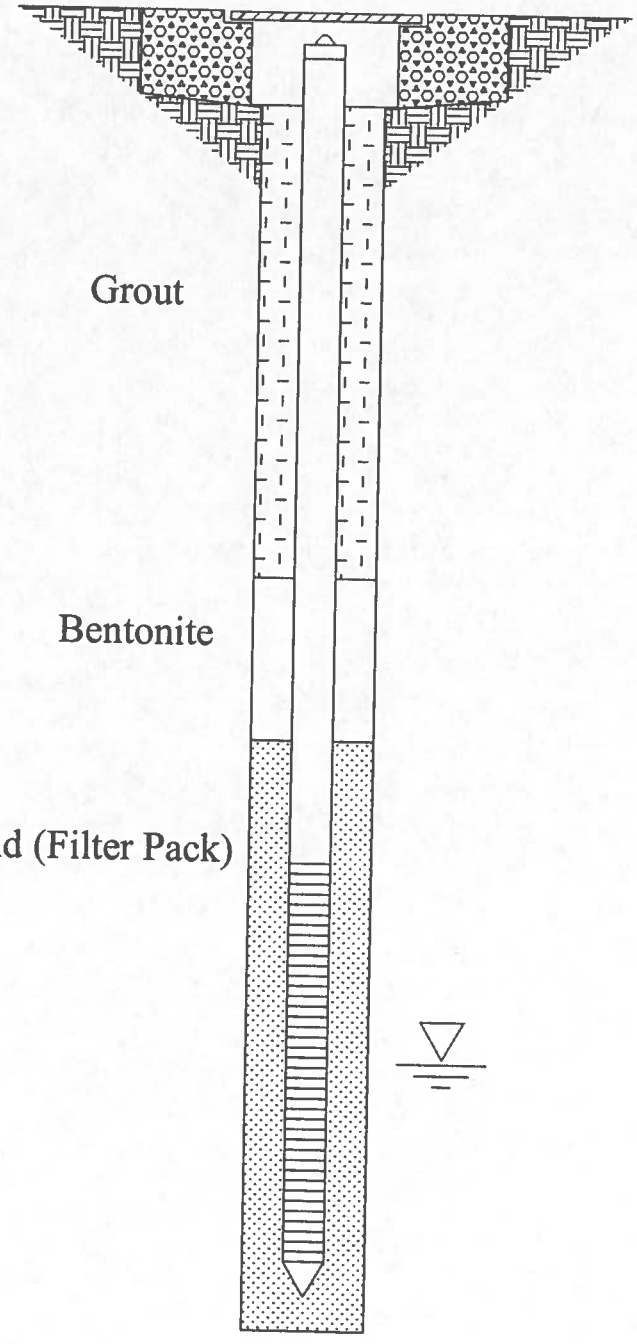
Notes: Collected soil sample from 5'
Screened well from 10 to 30 feet

***Highlighted areas indicate soil samples that were submitted for analysis.**

DEPTH IN FEET	DESCRIPTION	Sample No.	USCS	INCHES DRIVEN	INCHES RECOVERED	SAMPLE TYPE	BLOW COUNT	PID (ppm)
0	Concrete at surface							
2	Orange, no odor, Silty Sand	1	SM	-	-	HA	-	0.0
4-6	Brown, orange, gray, no odor, fill, organic material (tree roots), Silty Sand	2	SM	24	24	SS	4-3-2-3	165.2
9-11	Same As Above (S.A.A.)	3	SM	24	24	SS	3-3-5-6	0.0
14-16	Brown, orange, gray, moist, no odor, Silty Sand with pieces of rock	4	SM	24	24	SS	2-2-2-2	11.5
19-21	Orange, tan, no odor, moist, Clayey Silty Sand with pieces of rock	5	SM	24	24	SS	2-2-1-2	11.0
24-26	Orange, tan, gray, no odor, wet, Clayey Silty Sand	6	SM	24	24	SS	1-2-2-2	200.5
30	Boring terminated.							

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT	Former Lucky Cleaners	BOREHOLE SIZE	4.25-inch diameter
PROJECT #	KROGER110	RISOR PIPE TYPE	2.0-inch, schedule 40 PVC
WELL #	MW-8	GROUT TYPE/LBS	Portland Type I
ENERCON REPRESENTATIVE	Chrissy Sherman	BENTONITE TYPE/LBS	Pure Gold Bentonite Chips
METHOD/DATE DEVELOPED	Bailer 8/26/11	FILTER PACK TYPE/LBS	20/30 Rollo Washed Sand
DRILLER	GeoLab	SLOTTED SCREEN TYPE	0.01" slotted 2" schedule 40 PVC
TYPE OF WELL	Type-II Monitoring Well	WATER ENCOUNTERED	25.35'



94.97'	TOP OF GROUND
94.78'	TOP OF CASING
6'	TOP OF BENTONITE
8'	TOP OF FILTER PACK
10'	TOP OF SCREEN
25.35'	DEPTH TO WATER
30'	BOTTOM OF SCREEN
30'	END POINT
30'	BORING DEPTH

Enercon Services, Inc.

ENERCON

BORING LOG

Client: Kroger Company
Project Name: Former Lucky Cleaners

Project Location: Augusta, GA
Project Number: KROGER110

Boring ID: MW-9

Drilling and Sampling Information

TOC Elevation (ft.)	95.65	Total Depth (ft.)	30
Start Date:	8/26/2011	Finish Date	8/26/2011
Drilling Company:	GeoLab		
Drilled By:	Don Phillips		
Logged By:	C. Sherman		
Drilling Method:	Auger		
Borehole Diameter:	8.25 inches		
Sampling Method:	Split Spoon		
Water Level(s):	Dry		

Boring Location: North of building

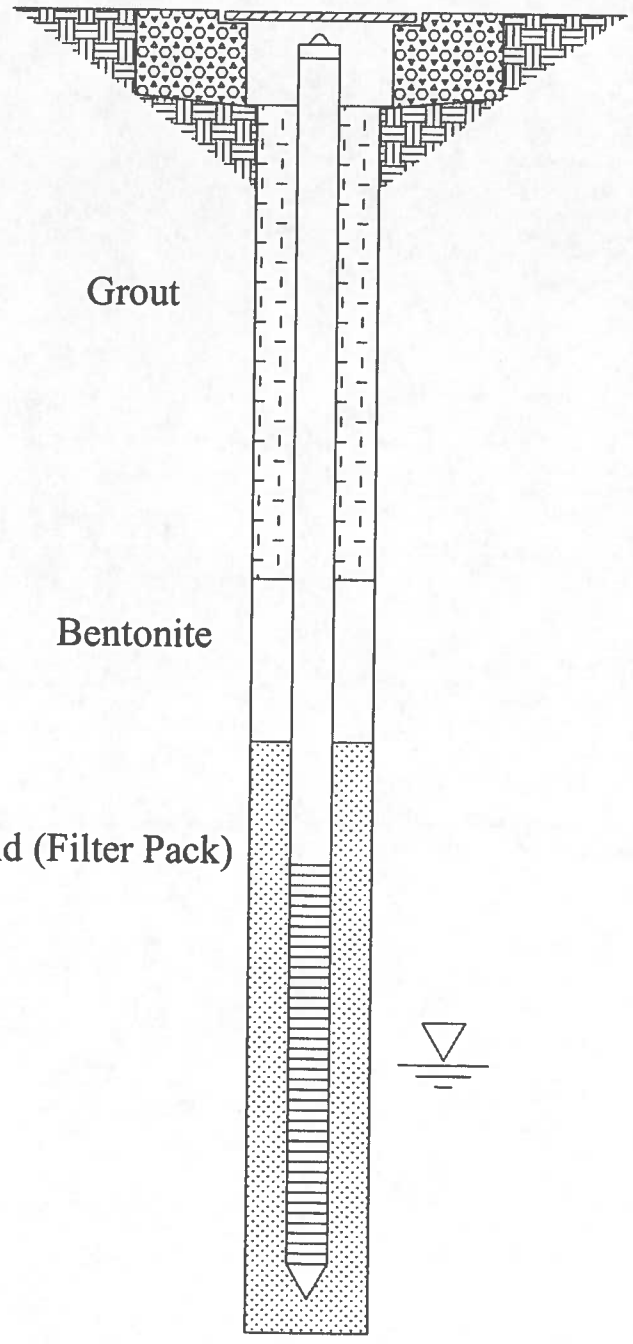
Notes: Collected soil sample from 10'
Screened well from 10 to 30 feet

***Highlighted areas indicate soil samples that were submitted for analysis.**

DEPTH IN FEET	DESCRIPTION	Sample No.	USCS	INCHES DRIVEN	INCHES RECOVERED	SAMPLE TYPE	BLOW COUNT	PID (ppm)
0	Vegetation at surface							
2	Orange, tan, no odor, Silty Sand	1	SM	-	-	HA	-	0.0
4-6	Same As Above (S.A.A.)	2	SM	24	24	SS	2-3-4-3	0.2
9-11	S.A.A.	3	SM	24	24	SS	2-2-4-2	0.0
14-16	Orange, tan, no odor, moist, Clayey Silty Sand with pieces of rock	4	SM	24	24	SS	1-2-3-4	11.9
19-21	S.A.A.	5	SM	24	24	SS	2-1-2-4	0.6
24-26	Orange, tan, organics (pieces of tree roots), wet, Clayey Silty Sand	6	SM	24	24	SS	2-1-2-3	8.3
30	Boring terminated.							

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT	Former Lucky Cleaners	BOREHOLE SIZE	4.25-inch diameter
PROJECT #	KROGER110	RISOR PIPE TYPE	2.0-inch, schedule 40 PVC
WELL #	MW-9	GROUT TYPE/LBS	Portland Type I
ENERCON REPRESENTATIVE	Chrissy Sherman	BENTONITE TYPE/LBS	Pure Gold Bentonite Chips
METHOD/DATE DEVELOPED	Not Applicable	FILTER PACK TYPE/LBS	20/30 Rollo Washed Sand
DRILLER	GeoLab	SLOTTED SCREEN TYPE	0.01" slotted 2" schedule 40 PVC
TYPE OF WELL	Type-II Monitoring Well	WATER ENCOUNTERED	Dry - Not encountered



95.73'	TOP OF GROUND
95.65'	TOP OF CASING
6'	TOP OF BENTONITE
8'	TOP OF FILTER PACK
10'	TOP OF SCREEN
DRY	DEPTH TO WATER
30'	BOTTOM OF SCREEN
30'	END POINT
30'	BORING DEPTH

Enercon Services, Inc.

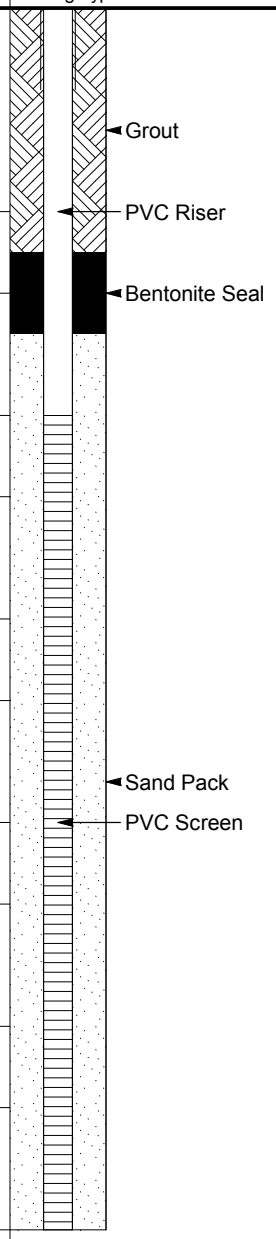
ENERCON
500 Town Park Lane
Kennesaw Ga 30144

BORING NUMBER MW-10

CLIENT The Kroger Company
PROJECT NAME Former Lucky Cleaners HSI #10845
PROJECT NUMBER KROGER198
PROJECT LOCATION 2801 Washington Rd, Augusta, GA
DATE STARTED 2/19/13 **COMPLETED** 2/19/13
LOGGED BY NP **CHECKED BY**
DRILLING CONTRACTOR GeoLab
DRILLING METHOD Hollow Stem Auger 8.25"
NOTES
BORING SIZE (in) 8.25
GROUND ELEVATION
LATITUDE N
LONGITUDE W
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING 19.40 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	TOTAL DRIVEN (in)	RECOVERY (in)	PID READING	SAMPLE TYPE NUMBER
0		Asphalt followed by graded aggregate base (GAB)				
2.0						
5		Light brown, sandy Clay, fill, dry, no odor			0	SS 1
7.0						
10		Light brown, sandy Clay, fill, dry, no odor			0	SS 2
12.0						
15		Light brown, sandy Clay, fill, dry, no odor			0	SS 3
17.0						
20		Greenish brown grey, slightly sandy Clay, fill, moist, no odor			0	SS 4
22.0						
25		Brown, sandy Clay, fill, very moist, no odor			0	SS 5
27.0						
30		Mottled orange and yellowish grey, Clay, soft, moist, no odor			0	SS 6
32.0						

Bottom of borehole at 32.0 feet.



ENERCON
500 Town Park Lane
Kennesaw Ga 30144

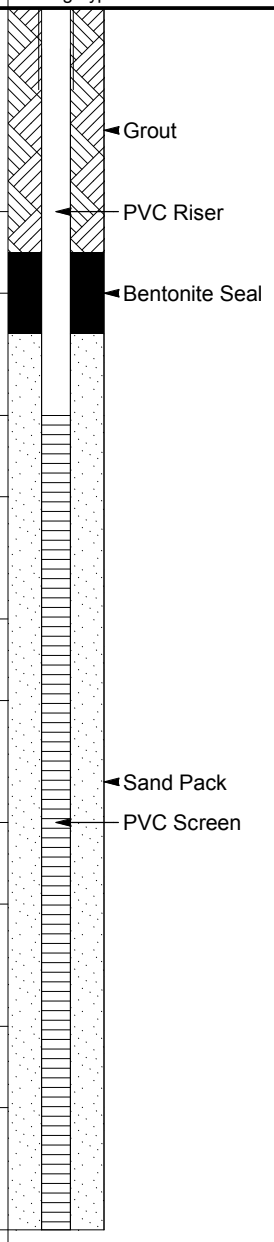
BORING NUMBER MW-11

CLIENT The Kroger Company
PROJECT NAME Former Lucky Cleaners HSI #10845
PROJECT NUMBER KROGER198
PROJECT LOCATION 2801 Washington Rd, Augusta, GA
DATE STARTED 2/19/13 **COMPLETED** 2/19/13
LOGGED BY NP **CHECKED BY**
DRILLING CONTRACTOR GeoLab
DRILLING METHOD Hollow Stem Auger 8.25"
NOTES
BORING SIZE (in) 8.25
GROUND ELEVATION
LATITUDE N
LONGITUDE W
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING 17.37 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	TOTAL DRIVEN (in)	RECOVERY (in)	PID READING	SAMPLE TYPE NUMBER
0		Grass followed by topsoil				
2.0						
5		Light brown, sandy Clay, fill, dry, no odor			0	SS 1
7.0						
10		Light brown, sandy Clay, fill, dry, no odor			0	SS 2
12.0						
15		Light brown, sandy Clay, fill, dry, no odor			0	SS 3
17.0						
20		Dark grey, clayey Sand, very moist, no odor			0	SS 4
22.0						
25		Red, sandy Clay, wet, no odor			0	SS 5
27.0						
30		Yellowish brown to grey, clayey Sand, wet, no odor			0	SS 6
32.0						

WELL DIAGRAM

Casing Type: PVC



Bottom of borehole at 32.0 feet.

ENERCON LOG - ENERCON BORING LOG TEMPLATE.GDT - 5/27/13 19:30 - P:\ENERCON_ENVIRONMENTAL\2013_ENERCON\KROGER\KROGER198 - LUCKY CLEANERS\TABLES\BORING LOGS.GPJ

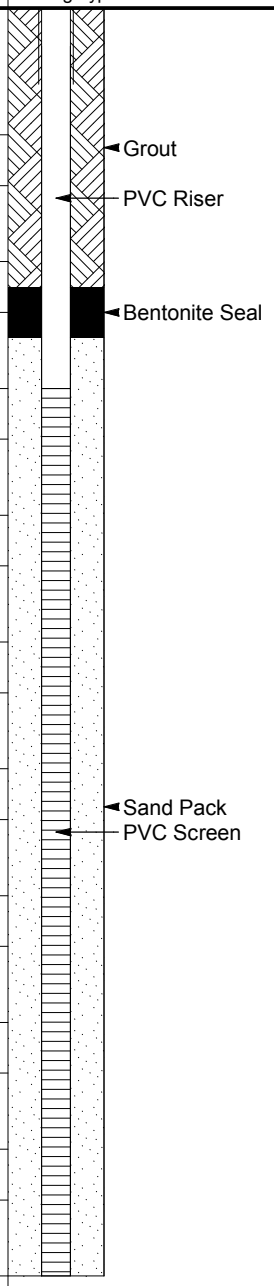
ENERCON
500 Town Park Lane
Kennesaw Ga 30144

BORING NUMBER MW-12

CLIENT The Kroger Company
PROJECT NAME Former Lucky Cleaners HSI #10845
PROJECT NUMBER KROGER198
PROJECT LOCATION 2801 Washington Rd, Augusta, GA
DATE STARTED 2/20/13 **COMPLETED** 2/20/13
LOGGED BY NP **CHECKED BY**
DRILLING CONTRACTOR GeoLab
DRILLING METHOD Hollow Stem Auger 8.25"
NOTES
BORING SIZE (in) 8.25
GROUND ELEVATION
LATITUDE N
LONGITUDE W
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING 36.48 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	TOTAL DRIVEN (in)	RECOVERY (in)	PID READING	SAMPLE TYPE NUMBER
0						
		Red, clayey Sand with organics, dry, no odor				
		2.0				
		Red, clayey Sand, fill, damp, no odor			0	MC 1
		7.0				
10		Red, clayey Sand, fill, damp, no odor			0	MC 2
		12.0				
		Red, clayey Sand, fill, damp, no odor			0	MC 3
		17.0				
20		Reddish brown, clayey Sand, damp, no odor			0	MC 4
		22.0				
		Reddish brown, sandy Clay, damp, no odor			0	MC 5
		27.0				
30		Reddish brown, clayey Sand, damp, no odor			0	MC 6
		32.0				
		Brown, fine Sand, moist, no odor			0	MC 7
		37.0				
40		Dark brown and black, Clay, damp, no odor			0	MC 8
		42.0				
		Mottled greenish grey and light brown, Clay, damp, no odor			0	MC 9
		47.0				
50		Light brown, Clay, damp, no odor			0	MC 10
		52.0				
		Bottom of borehole at 52.0 feet.				

WELL DIAGRAM



ENERCON
500 Town Park Lane
Kennesaw Ga 30144

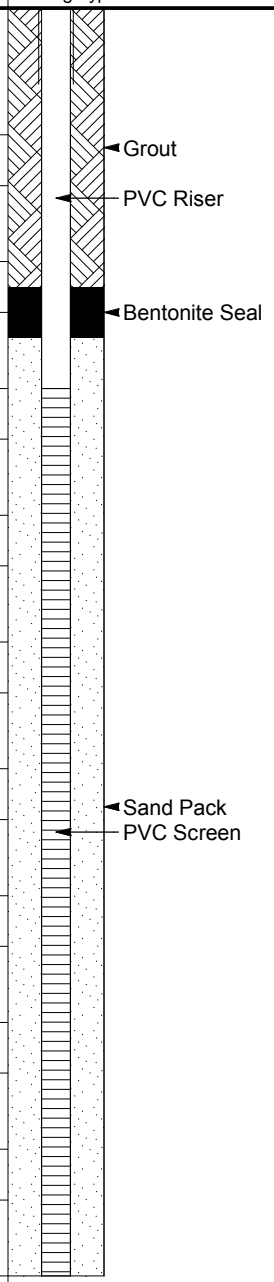
BORING NUMBER MW-13

CLIENT The Kroger Company
PROJECT NAME Former Lucky Cleaners HSI #10845
PROJECT NUMBER KROGER198
PROJECT LOCATION 2801 Washington Rd, Augusta, GA
DATE STARTED 2/20/13 **COMPLETED** 2/20/13
LOGGED BY NP **CHECKED BY**
DRILLING CONTRACTOR GeoLab
DRILLING METHOD Hollow Stem Auger 8.25"
BORING SIZE (in) 8.25
GROUND ELEVATION
LATITUDE N
LONGITUDE W
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING 34.86 ft
NOTES

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	TOTAL DRIVEN (in)	RECOVERY (in)	PID READING	SAMPLE TYPE NUMBER
0						
		Red, clayey Sand with organics, dry, no odor				
		2.0				
		Red, clayey Sand, fill, damp, no odor			0	MC 1
		7.0				
10		Red, clayey Sand, fill, damp, no odor			0	MC 2
		12.0				
		Red, clayey Sand, fill, damp, no odor			0	MC 3
		17.0				
20		Red, clayey Sand, fill, damp, no odor			0	MC 4
		22.0				
		Brown, clayey Sand, damp, no odor			0	MC 5
		27.0				
30		Mottled red and greenish grey, sandy Clay, stiff, damp, no odor			0	MC 6
		32.0				
		Light brown to greenish grey, silty Clay, damp, no odor			0	MC 7
		37.0				
40		Light brown to greenish grey, silty Clay, damp, no odor			0	MC 8
		42.0				
		Pale yellowish brown, Clay, soft, dry, no odor			0	MC 9
		47.0				
50		Pale yellowish brown, Clay, soft, dry, no odor			0	MC 10
		52.0				

Bottom of borehole at 52.0 feet.

WELL DIAGRAM



ENERCON
500 Town Park Lane
Kennesaw Ga 30144

BORING NUMBER MW-14

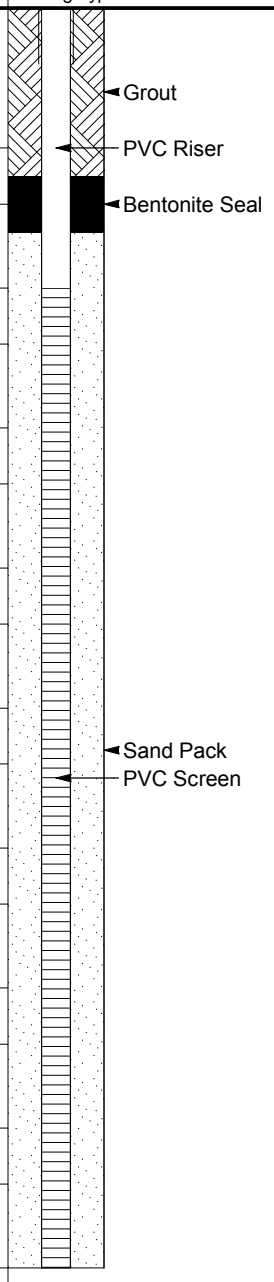
CLIENT The Kroger Company
PROJECT NAME Former Lucky Cleaners HSI #10845
PROJECT NUMBER KROGER198
PROJECT LOCATION 2801 Washington Rd, Augusta, GA
DATE STARTED 2/19/13 **COMPLETED** 2/20/13
LOGGED BY NP **CHECKED BY**
DRILLING CONTRACTOR GeoLab
DRILLING METHOD Hollow Stem Auger 8.25"
NOTES
BORING SIZE (in) 8.25
GROUND ELEVATION
LATITUDE N
LONGITUDE W
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING 34.33 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	TOTAL DRIVEN (in)	RECOVERY (in)	PID READING	SAMPLE TYPE NUMBER
0						
		Grass followed by topsoil				
2.0						
5		Light brown to greenish brown, sandy Clay, fill, damp, no odor			0	SS 1
7.0						
10		Light brown, sandy Clay, fill, soft, damp, no odor			0	SS 2
12.0						
15		Light brown, sandy Clay, fill, soft, damp, no odor			0	SS 3
17.0						
20		Light brown, sandy Clay, fill, soft, damp, no odor			0	SS 4
22.0						
25		Light brown, sandy Clay, fill, soft, damp, no odor			0	SS 5
27.0						
30		Saprolite, light brown to yellowish brown vertially banded, breaks to fine sand, moist, no odor			0	SS 6
32.0						
35		Saprolite, light brown to yellowish brown vertially banded, breaks to fine sand, moist, no odor			0	SS 7
37.0						
40		Saprolite, light brown to yellowish brown vertially banded, breaks to fine sand, moist, no odor			0	SS 8
42.0						
45		Saprolite, light brown to yellowish brown vertially banded, breaks to fine sand, moist, no odor			0	SS 9
47.0						

Bottom of borehole at 47.0 feet.

WELL DIAGRAM

Casing Type: PVC



ENERCON
Excellence—Every project. Every day.

BORING LOG

Client: Kroger
Project Name: Former Lucky Cleaners

Project Location: Washington Rd, Augusta
Project Number: KROGER340

Boring ID: MW-15
Use: Monitoring Well

Drilling and Sampling Information

Boring Location: Near MW-9 at loading dock.

Surface Elevation (ft.): 95.76
Total Depth (ft.): 42
Start Date: 9/1/2015
Finish Date: 9/1/2015
Drilled By: GeoLab
Logged By: N. Parker
Drill Rig Type: CME 55
Drilling Method: Auger

Borehole Diameter: 8.25"
Sampling Method: Split Spoon

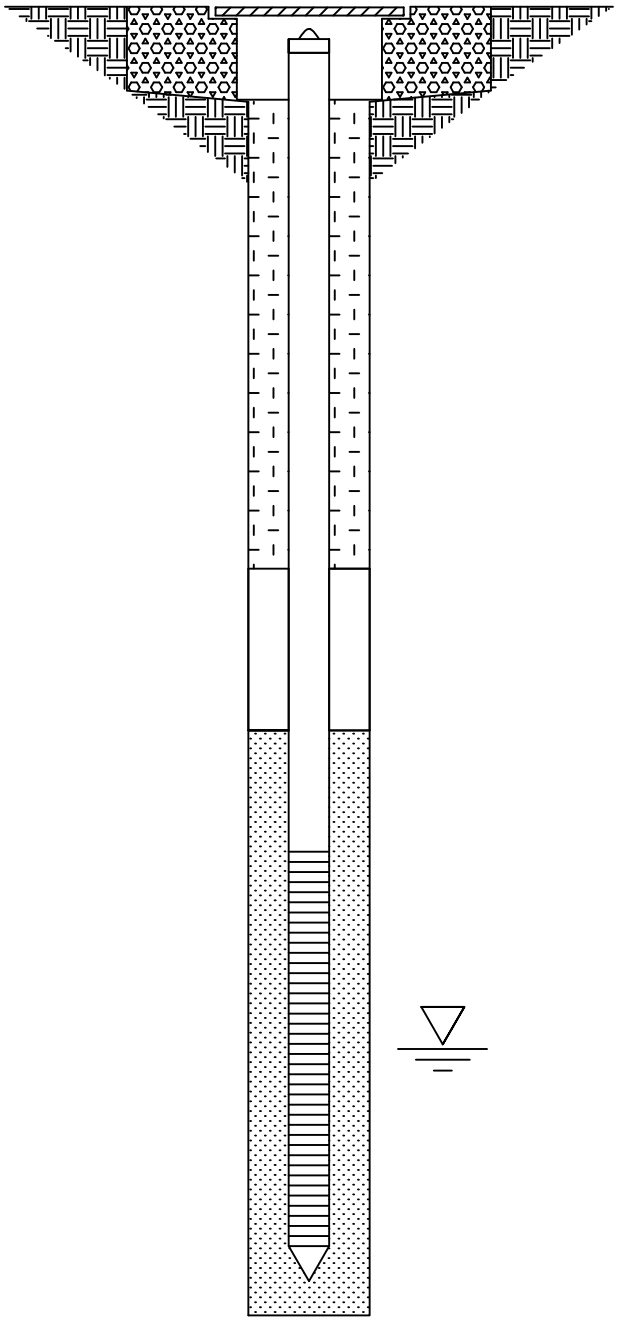
Water Level(s): 36.11 feet bgs

notes: Replacement well for MW-9
2" PVC well. Riser from 0-10' and screen from 10-42'
Sand pack 8-42', bentonite seal 6-8', & grout seal 0-6'

DEPTH IN FEET	DESCRIPTION	USCS	INCHES DRIVEN	INCHES RECOVERED	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	PID
0-2	Concrete to 8" with GAB to 12" followed by Red, clay (fill), dense, dry, no odor.	CH	NA	NA	HA	1	NA	0
3-5	Red, slightly sandy clay (fill), dense, dry, no odor.	SC	NA	NA	HA	2	NA	0
5-7	Red, sandy clay (fill), dry, no odor.	SC	24	24	SS	3	4-7-7-5	0
10-12	Red, sandy clay (fill), dry, no odor.	SC	24	24	SS	4	3-4-3-1	0
15-17	Brown, clay with rock fragments (fill), damp, no odor.	CL	24	23	SS	5	2-1-3-4	0
20-22	Brown, clay with rock fragments (fill), damp, no odor.	CL	24	24	SS	6	6-4-2-4	0
25-27	Brown, clay with rock fragments (fill), moist, no odor.	CL	24	24	SS	7	2-4-4-6	0
30-32	Dark grey, clay with rock fragments, very moist, no odor.	CL	24	24	SS	8	1-1-2-4	0
35-37	Bluish grey, silty clay, wet, no odor.	ML	24	24	SS	9	2-3-6-9	0
40-42	Grey and brown, clay, dense, wet, no odor.	CH	24	24	SS	10	3-4-9-12	0

MONITOR WELL CONSTRUCTION DIAGRAM

PROJECT	Former Lucky Cleaners	BOREHOLE SIZE	8.25" Outside Diameter
PROJECT #	KROGER340	RISOR PIPE TYPE	2" schedule 40 PVC
WELL #	MW-15	GROUT TYPE	Portland Type I
ENERCON REPRESENTATIVE	Nathan Parker	BENTONITE TYPE	3/4" Bentonite Chips
METHOD/DATE DEVELOPED	Submersible pump 9/2/15	FILTER PACK TYPE	#2 Filter Sand
DRILLER	GeoLab	SLOTTED SCREEN TYPE	0.01" slotted 2" schedule 40 PVC
TYPE OF WELL	Type II	WATER ENCOUNTERED	36.11' Below Ground Surface



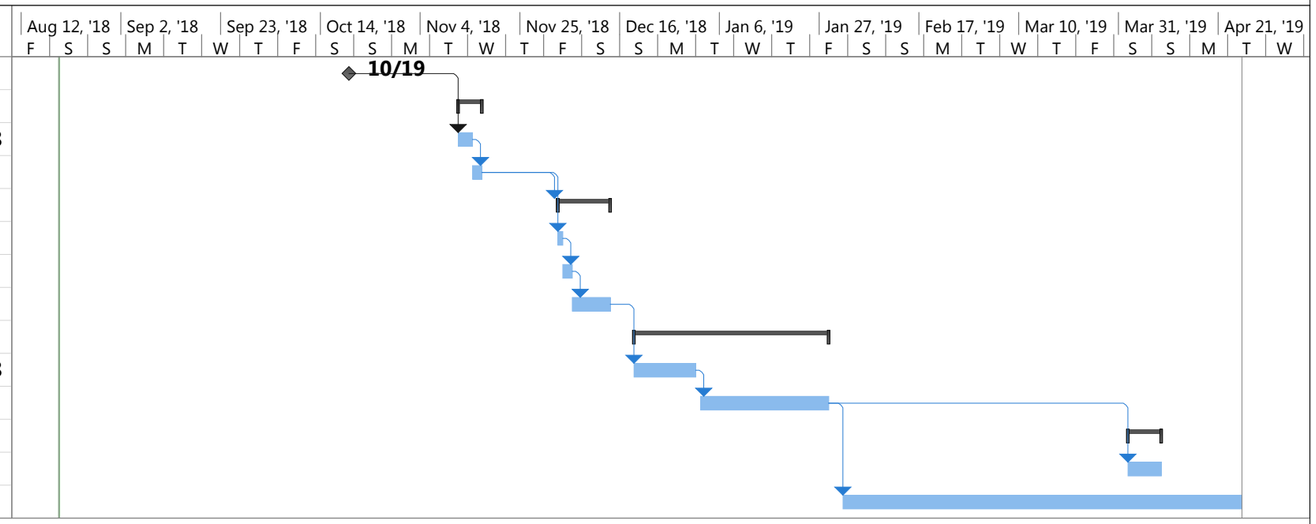
95.76'	TOP OF GROUND
95.67'	TOP OF CASING
-6'	TOP OF BENTONITE
-8'	TOP OF FILTER PACK
-10'	TOP OF SCREEN
-36.11'	DEPTH TO WATER
-42'	BOTTOM OF SCREEN
-42'	BORING DEPTH

Enercon Services, Inc.

Appendix G
Conceptual Milestone Schedule

Former Lucky Cleaners
2801 Washington Road
Augusta, Richmond County, Georgia
HSI #10845
Conceptual Milestone Schedule

ID	Task Mode	Task Name	Duration	Start	Finish
1		**Notice of VIRP Approval**	**1 day**	**Fri 10/19/18**	**Fri 10/19/18**
2		**Deep Well Installation**	**5 days**	**Mon 11/12/18**	**Fri 11/16/18**
3		Utility Clearance	3 days	Mon 11/12/18	Wed 11/14/18
4		Deep Well Installation	2 days	Thu 11/15/18	Fri 11/16/18
5		**Sitewide Groundwater Monitoring Event**	**9 days**	**Mon 12/3/18**	**Thu 12/13/18**
6		Water Level Measurement	1 day	Mon 12/3/18	Mon 12/3/18
7		Groundwater Sampling	2 days	Tue 12/4/18	Wed 12/5/18
8		Laboratory Analysis	6 days	Thu 12/6/18	Thu 12/13/18
9		**Fate and Transport Model**	**29 days**	**Wed 12/19/18**	**Mon 1/28/19**
10		BIOCHLOR Modeling	9 days	Wed 12/19/18	Mon 12/31/18
11		Fate & Transport Report	19 days	Wed 1/2/19	Mon 1/28/19
12		**Semi-Annual Status Report**	**5 days**	**Tue 4/2/19**	**Mon 4/8/19**
13		Progress Report #1	5 days	Tue 4/2/19	Mon 4/8/19
14		**Compliance Status Report**	**60 days**	**Fri 2/1/19**	**Thu 4/25/19**



Date: Mon 8/20/18

Task	Project Summary	Manual Task	Start-only	Deadline
Split	Inactive Task	Duration-only	Finish-only	Progress
Milestone	Inactive Milestone	Manual Summary Rollup	External Tasks	Manual Progress
Summary	Inactive Summary	Manual Summary	External Milestone	