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#### **CORRECTIVE ACTION PLAN (CP-12)**

Krish-Sai, LLC Stop n Shop Shell ADEM Facility ID: 24381-029-014792 UST Incident Number: UST15-08-03 1945 Almon Street Heflin, Alabama 36264 (Cleburne County)

March 15, 2021

<u>Prepared for:</u> Krish-Sai, LLC 21 Teal Drive Oxford, Alabama 36203

Prepared by: **SPHERE 3** ENGINEERING, INC (Alabama General Contractor #49971) 3433 Sierra Drive Hoover, Alabama 35216 Phone: (205) 403-3317

SPHERE 3 File: KS.SSS.12



#### **CERTIFICATION PAGE**

I certify under penalty of law that this Corrective Action Plan and all specifications, and technical data submitted within were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiring of the person or persons who directly gathered the enclosed 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.

Signature

Greg Hoagland, P.E.



21581

**Registration Number** 

March 15, 2021

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### **UST RELEASE FACT SHEET**

#### GENERAL INFORMATION:

SITE NAME: Stop n Shop Shell

ADDRESS: 1945 Almon Street; Heflin, Cleburne County, AL

FACILITY I.D. NO.: 24381-029-014792

UST INCIDENT NO .: UST15-08-03

## RESULTS OF EXPOSURE ASSESSMENT:

How many private drinking water wells are located within 1,000 feet of site?	One
How many public water supply wells are located within 1 mile of site?	None
Have any drinking water supply wells been impacted by contamination from this release?	No
Is there an imminent threat of contamination to any drinking water wells?	No
Have vapors or contaminated groundwater posed a threat to the public?	No
Are any underground utilities impacted by the release?	No
Have surface waters been impacted by the release?	No
Is there an imminent threat of contamination of surface waters?	No

What is the type of surrounding population?

**Commercial/Residential** 

CONTAMINATION DESCRIPTION:				
Type of contamination at site: {X} Gasoline { } Diesel { } Waste Oil { } Kerosene { } Other:				
Free product present in wells? { } Yes {X} No				
Max. benzene/MTBE/naphthalene concentrations measured in soils: 0.098 mg/kg benzene / 0.106 mg/kg MTBE / 0.122 mg/kg naphthalene				
Max. benzene/MTBE/naphthalene concentrations measured in groundwater: 3.140 mg/L benzene / 4.540 mg/L MTBE / 0.409 mg/L naphthalene				

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### ADEM UST SITE CLASSIFICATION SYSTEM CHECKLIST

Please read all of the following statements and mark either yes or no if the statement applies to your site. If you have conducted a Preliminary or Secondary Investigation, all questions should be answered. Closure site assessment reports may not provide you with all the necessary information, but answer the statements with the knowledge obtained during the closure site assessment.

SITE NAME:	Stop n Shop Shell
SITE ADDRESS:	1945 Almon Street
	Heflin (Cleburne County) Alabama 36264
FACILITY I.D. NO.:	24381-029-014792
UST INCIDENT NO .:	UST15-08-03
OWNER NAME:	Krish-Sai, LLC
OWNER ADDRESS:	21 Teal Drive; Oxford, Alabama 36203
NAME & ADDRESS OF PERSON	Greg Hoagland, P.E.
COMPLETING THIS FORM:	SPHERE 3 Engineering, Inc.
	3433 Sierra Drive; Hoover, Alabama 35216

CLASSIFICATION	DESCRIPTION	YES	NO
CLASS A	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
A.1	Vapor concentrations at or approaching explosive levels that could cause health effects, are present in a residence or building.		$\boxtimes$
A.2	Vapor concentrations at or approaching explosive levels are present in subsurface utility system(s), but no buildings or residences are impacted.		$\boxtimes$
CLASS B	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
B.1	An active public water supply well, public water supply line, or public surface water intake is impacted or immediately threatened.		$\boxtimes$
B.2	An active domestic water supply well, domestic water supply line or domestic surface water intake is impacted or immediately threatened.		$\boxtimes$
B.3	The release is located within a designated Wellhead Protection Area I.		$\boxtimes$
CLASS C	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
C.1	Ambient vapor/particulate concentrations exceed concentrations of concern from an acute exposure, or safety viewpoint.		$\boxtimes$
C.2	Free product is present on the groundwater, at ground surface, on surface water bodies, in utilities other than water supply lines, or in surface water runoff.		$\boxtimes$

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CLASSIFICATION	DESCRIPTION	YES	NO
CLASS D	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
D.1	There is a potential for explosive levels, or concentrations of vapors that could cause acute effects, to accumulate in a residence or other building.		$\boxtimes$
D.2	A non-potable water supply well is impacted or immediately threatened.		$\boxtimes$
D.3	Shallow contaminated surface soils are open to public access, and dwellings, parks, playgrounds, day care centers, schools or similar use facilities are within 500 feet of those soils.		$\boxtimes$
CLASS E	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
E.1	A sensitive habitat or sensitive resources (sport fish, economically important species, threatened and endangered species, etc.) are impacted and affected.		$\boxtimes$
CLASS F	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
F.1	Groundwater is impacted and a public well is located within 1 mile of the site.		$\boxtimes$
F.2	Groundwater is impacted and a domestic well is located within 1,000 feet of the site.	$\boxtimes$	
F.3	Contaminated soils and/or groundwater are located within designated Wellhead Protection Areas (Areas II or III).		$\boxtimes$
CLASS G	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
G.1	Contaminated soils and/or groundwater are located within areas vulnerable to contamination from surface sources.		$\boxtimes$
GLASS H	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
H.1	Impacted surface water, stormwater or groundwater discharges within 500 feet of a surface water body used for human drinking water, whole body water-contact sports, or habitat to a protected or listed endangered plant and animal species.		
CLASS I	LONG TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
l.1.	Site has contaminated soils and/or groundwater but does not meet any of the above mentioned criteria.		$\boxtimes$

# ADDITIONAL COMMENTS:

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Complete the classification evaluation questions listed above. Upon completion, determine the highest rank of the site (A.1 is the highest rank) based on the statements answered with a yes.

Enter the determined classification ranking:	F.2

#### **Corrective Action Plan Certification**

This Corrective Action Plan (CAP) has been developed under the guidance of and certified by Mr. Greg Hoagland, P.E., Alabama Professional Engineer #21581. The CAP certification page is presented at the beginning of this report.

#### INTRODUCTION

#### **Executive Summary**

As requested by the Alabama Department of Environmental Management (ADEM), this CAP has been completed for the facility known as Stop n Shop Shell, located at 1945 Almon Street in Heflin, Alabama (see Figure 2). The subject facility has been impacted with a release of unleaded gasoline as identified below:

Facility I.D.: 24381-029-014792 Incident No.: UST15-08-03

### CAP Objectives

The objective of the CAP is to assess that the dissolved Chemicals of Concern (COCs) concentrations and free product, which characterize the subsurface plume at the facility, are being reduced and recovered by remediation by natural attenuation (RNA) supplemented with Mobile-Enhanced Multiphase Extraction (MEME) events.

Based on historical data for the site, RNA supplemented with MEMEs appears to be a viable and economical method of corrective action (CA). SPHERE 3 prepared an Alabama Risk-Based Corrective Action (ARBCA) Tier 1 and Tier 2 Evaluation report, dated December 29, 2020, to establish Site-Specific Target Levels (SSTLs) for COCs concentrations in soil and groundwater at the site. The ARBCA Tier 1 and Tier 2 Evaluation report was approved by ADEM in a letter dated February 8, 2021. SSTLs calculated using the ARBCA Tier 2 program are included in the soil and groundwater analytical data summary tables in this report. MEMEs will provide physical removal of the dissolved COCs and free product (if present) at or near the incident source, while RNA will be used to monitor the natural reduction of dissolved COCs though degradation and possibly microbial consumption. The CA would be considered complete upon the confirmation of the reduction of dissolved COCs concentrations, through groundwater monitoring, to meet the SSTLs established by the ARBCA Tier 2 evaluation. Corrective Action Plan (CP-12) Stop n Shop Shell ADEM Facility ID No. 24381-029-014792; UST15-08-03 1945 Almon Street; Heflin, Alabama 36264 Page 5 of 17

#### SUMMARY OF PREVIOUSLY CONDUCTED SITE ACTIVITIES

#### Site Location and Description

The subject facility is located in the northwest ¼ of Section 21, Township 16 South, Range 10 East and at 33°22'36.45" North Latitude and 87°05'31.85" West Longitude (Figure 1). The physical address of the facility is 1945 Almon Street, Heflin, Cleburne County, Alabama.

The facility property is currently improved with a convenience store, retailing gasoline motor fuels and sundry items. The facility is surrounded by commercial properties. According to the ADEM Underground Storage Tank (UST) Site Classification System Checklist, the facility has a ranking of F.2.

#### **Description of Release**

SPHERE 3 Engineering, Inc. (SPHERE 3) was contracted by Krish-Sai, LLC to provide Response Action Contractor services for their UST facility known as Stop n Shop Shell in Heflin, Alabama. No discrepancies or irregularities were noted during operation of the UST system and the volume of the release is unknown.

#### **Geologic and Hydrogeological Setting**

The subject site is located in the Northern Piedmont District of the Piedmont Upland Section in Cleburne County. The district consists of extremely dissected (eroded) uplands developed on metamorphosed sedimentary and igneous rock units. The land surface ranges from 1,100 feet in the north of the county to about 500 feet to the south. Talladega Mountain forms a prominent northeast-southwest trending ridge through this vicinity and includes Cheaha Mountain (the highest point in Alabama at 2,407 feet). Drainage is primarily toward the south into the Tallapoosa river watershed and to the southwest into the Coosa River watershed (Kidd, 1989).

The structure of the Piedmont Uplands is characterized by northeast-southwest trending valleys and ridges which are cut and reshaped by faults and stream activity. The faults include the Carr Mill fault and the Whitestone fault, both located to the south of the target property. The geology is formed from ancient activity along large thrust-fault ramps which extend from the Brevard fault zone in the Southern Piedmont to the southeast. The site is underlain by a thick sequence of residuum and weathered metamorphic and igneous rock units. The target property is immediately underlain by the Talladega Slate. The section is bound on the northwest by the Weisner Ridge and Coosa Valley (Alabama Valley and Ridge) sections, and on the southeast by the Southern Piedmont and Fall Line Hills sections. Each section is separated from the other by large fault lines. To the north is the Talladega thrust fault. The Talladega Slate is characterized as a Greenschist metasedimentary rock domain.

The Talladega Slate forms a complex of low-rank metamorphosed sediments in a continuous belt which ranges from 8 to 22 miles wide and strikes northeastward. The unit consists of slate and phyllite which also contains some marble, dolomite and quartzite. The phyllites are mainly schistose and comprised of 50% quartz. The foliations in the rocks generally dip toward the southeast at high (30-60 degree) angles. The saprolite which overlies the formation ranges from 20 to 35 feet in thickness.

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None of the igneous or metamorphic rock units in this vicinity are tapped by public water supply wells. The units have relatively low yields.

#### Area Water Wells and Other Potential Environmental Receptors

The subject property is located at 1945 Almon Street (Alabama Highway 9) at its intersection with Interstate I-20 (Exit 199) in Heflin (Cleburne County), Alabama. The interchange area is comprised of generally commercial land use surrounded by wooded tracts. Across Interstate I-20 to the south are undeveloped wooded tracts of land, the Damn Yankees Bar & Grill, an active Chevron C-store and a vacant gas station. The facility property is bound on the east by a gravel parking surface, a motel (America's Best Value Inn) and wooded land. Across Almon Street (Highway 9) to the west are the Buster Miles Ford and Buster Miles Chevrolet automotive dealerships, as well as wooded tracts and the distant agricultural land. To the northwest is a McDonald's fast-food restaurant. North of the property are the Vallarta Grill and a Hardee's fast-food restaurant and additional wooded tracts. There were no schools, daycares, or churches observed in this immediate vicinity of the target property. See Figure 2.

Although the initial inventory of private water supply wells revealed no private water supply wells, a subsequent confirmation inventory revealed one water well (PRW-1), formerly used for domestic water supply, located approximately 750 feet north of the facility. Water well PRW-1 is owned by Mr. Wilmer Glasgow, and is located approximately 750 feet north of the site. According to records obtained from the Geological Survey of Alabama, this well is approximately 172 feet deep, and is constructed with 6-inch diameter steel casing to a depth of approximately 86 feet below ground surface (open hole below the cased interval). The well currently is not used. See Figure 2.

The area surrounding the facility is supplied with water by the Heflin Water Board. Municipal water has been available to the target property since its development in 1988.

An inventory of public water supply wells revealed that there are no public water supply wells located within a one mile radius of the facility property. The inventory consisted of a telephone interview with the Heflin Water Board. The local water provider does not use public supply wells. The primary source for drinking water is the reservoir located on Cahulga Creek. The reservoir is located two miles to the north-northwest of the property. The target property is not located within the surface water protection area for that water supply. There are no surface water intakes or filtration facilities located within a one-mile radius of the subject property.

Underground utilities identified on site include a potable water main located beneath the frontage road which bounds the south end of the property. The water line traverses toward the east and onto the motel property. Also present is a natural gas main located on that same side of the property and traverses in near proximity to the UST hold. The property is serviced by a municipal sanitary sewer which features a lift station near this site. There are no known underground telecommunications (fiber optic/coaxial cable) utility lines. A network of subsurface culverts and open drainages are present along both the Highway 9 and frontage roads and are associated with diversion of storm water toward the south and west. Electrical lines are located overhead.

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#### **Compilation of Previously Conducted Site Remediation Activities**

To date, CA activities conducted as a result of the incident generally include: soil and groundwater sampling activities associated with the Preliminary Investigation, Secondary Investigation, and Additional Monitor Well Installation activities implemented to define the source area and extents of the subsurface COCs, and interim groundwater monitoring events conducted on January 17, 2019, December 30, 2019, February 28, 2020, June 19, 2020, September 10, 2020, and December 18, 2020.

#### **Compilation of Free Product Data from Site Investigations**

A measurable thickness of free product has not been detected to date in any of the incident monitor wells. Historical monitor well gauging worksheets are provided as Appendix A.

#### **Compilation of Soil Data from Site Investigations**

As part of the incident investigative activities, a total of 24 soil samples were submitted for laboratory analysis. Each soil sample was analyzed for COCs benzene, toluene, ethylbenzene and xylenes (BTEX), methyl tert-butyl ether (MTBE), and naphthalene using Environmental Protection Agency (EPA) method 8260B. A summary of the results of the soil analyses is presented in Table 1 and is depicted on Figure 5. Copies of the historical soil laboratory analytical reports are presented as Appendix B.

Table 1   STOP n SHOP SHELL   COCs IN SOILS ANALYTICAL SUMMARY							
BORING	DEPT H (feet)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	MTBE (mg/kg)	NAPH- THALENE (mg/kg)
SB1	20	<0.005	<0.005	<0.005	<0.015	0.063	<0.005
	25	<0.005	<0.005	<0.005	<0.015	0.088	<0.005
SB2	20	<0.005	<0.005	<0.005	<0.015	0.007	<0.005
	25	0.020	0.018	0.005	0.056	0.033	<0.005
SB3	20	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005
	25	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005
SB4	20	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005
	25	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005
SB5	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005
	20	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005
SB6	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005
	20	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005
SB7	20	<0.005	<0.005	<0.005	<0.015	0.007	<0.005
	25	0.098	0.097	0.025	0.303	0.089	0.122
SB8	20	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005
	25	<0.005	<0.005	<0.005	<0.015	<0.005	<0.005

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Table 1 - Concluded STOP n SHOP SHELL COCs IN SOILS ANALYTICAL SUMMARY							
BORING	DEPT H (feet)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	MTBE (mg/kg)	NAPH- THALENE (mg/kg)
SB9	15	0.011	<0.005	<0.005	<0.015	0.106	<0.005
	20	0.010	<0.005	<0.005	0.020	0.016	<0.005
SB10	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	20	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SB11	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	20	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
DW	20	<0.005	<0.005	<0.005	<0.015	0.022	<0.005
	25	<0.005	<0.005	<0.005	<0.015	0.077	<0.005
GRP S	SSTLs	7.580	637.000	281.000	346.000	13.800	265.000
Notes: mg/kg – milligrams per kilogram							

GRP SSTLs – Site-Specific Target Levels protective of the Groundwater Resource Protection Area, as calculated using the ARBCA Tier 2 Program

SPHERE 3 prepared an ARBCA Tier 1 and Tier 2 Evaluation report, dated December 29, 2020, in which SSTLs for COCs concentrations in soil and groundwater were calculated using the Tier 2 program. The ARBCA evaluation was approved by ADEM in a letter dated February 8, 2021. SSTLs for COCs in soil are included in Table 1. As shown in this table, COCs concentrations did not exceed applicable SSTLs in any of the soil samples collected at the site to date.

#### **Compilation of Groundwater Data**

As shown on Figure 4, the facility's current monitor well network consists of 11 Type II monitor wells (MW-1 through MW-11) and one Type III monitor well (MW-DW1). The most recent comprehensive water level gauging event was conducted at the site on December 18, 2020. Free product was not detected in any monitor well. Depths to groundwater as measured in the Type II monitor wells ranged from 17.98 feet below the top of well casing (btoc) in monitor well MW-11 to 23.79 feet btoc in monitor well MW-6. Groundwater elevations as measured in the Type II monitor wells ranged from 874.31 feet above mean sea level (amsl) in monitor well MW-6 to 877.20 feet amsl in monitor well MW-8. The depth to water in Type III monitor well MW-bW1 was 22.65 feet btoc, and the corresponding groundwater elevation was 876.00 feet amsl. Interpretation of these data indicates a predominant groundwater flow direction to the southeast, under an average hydraulic gradient of approximately 1.6 feet per 100 feet. Groundwater elevation data collected on December 18, 2020 are illustrated on Figure 6. Historical monitor well gauging worksheets are provided as Appendix A.

To monitor the dissolved plume, groundwater samples have been collected from each monitor well as part of the various phases of investigative activities. Copies of the historical groundwater laboratory analytical reports are presented as Appendix C. A historical summary of dissolved

COCs data is presented in Appendix D.

As part of the ARBCA Tier 2 evaluation for the site, SSTLs for groundwater protective of the GRP area were calculated for each well. Applicable SSTLs are included in the historical groundwater analytical data summary in Appendix D. As shown in this summary, dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-7 exceeded applicable SSTLs during the most recent sampling event of December 18, 2020.

The interpreted configuration of the dissolved COCs plume during the groundwater sampling event of December 18, 2020 is illustrated on Figure 7.

#### Summary of the ARBCA Evaluation as Compared to Current Data

SSTLs for soil and groundwater were generated for the facility through a Tier 2 ARBCA evaluation prepared by SPHERE 3, dated December 29, 2020. The ARBCA evaluation was approved by ADEM in a letter dated February 8, 2021. The results of the Tier 2 evaluation indicated that COCs concentrations did not exceed applicable SSTLs in any of the soil samples collected at the site to date. The SSTLs protective of the GRP for soils are the most stringent of the Tier 2 target levels, including those generated for any reasonably completed human exposure pathways.

Historical groundwater analytical data for the site are summarized in Appendix D. This historical summary also includes the ARBCA Tier 2 dissolved SSTLs protective of the GRP area. As shown in this summary, dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-7 exceeded applicable SSTLs during the most recent sampling event of December 18, 2020.

#### **Concentration and Distribution of Chemicals of Concern Exceeding SSTLs**

The results of the Tier 2 evaluation indicated that COCs concentrations did not exceed applicable SSTLs in any of the soil samples collected at the site to date.

The most recently measured dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-7 exceeded applicable SSTLs.

#### **CORRECTIVE ACTION PLAN**

#### **Source Area Remediation**

The source area generally appears to be located in the vicinity of monitor well MW-7. The initial objective of source area remediation will be to recover residual free product (if present), and groundwater impacted by COCs at concentrations exceeding applicable SSTLs. As previously mentioned in this report, measurable free product has not been detected to date in any of the incident monitor wells.

Because the source area has a core of relatively small size, as generally defined by Type II monitor wells MW-7 and MW-2, quarterly MEME events are proposed to remove the

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groundwater from the source area. Each MEME event will have a duration of 8 hours and will target the source area.

Existing 2-inch diameter Type II monitor wells MW-2 and MW-7 will be over-drilled and completed as 4-inch diameter recovery wells to be utilized as extraction points during the MEME events. These two existing wells will be over-drilled using 10.25-inch outside diameter hollow-stem auger drilling equipment. Each boring will be terminated within unconsolidated soils, at an approximate depth of 30 feet below ground surface (bgs). The recovery wells subsequently will be constructed with 4-inch diameter schedule 40 polyvinyl chloride (PVC) materials. The construction of each well will include 15 feet of 0.01-inch slotted well screen. A graded sand pack will be emplaced in the well annulus from the bottom of each well to approximately two feet above the top of the well screen. This sand pack will be followed by a minimum of one foot of bentonite seal, and grout to near the ground surface. The surface completion for each of the proposed wells will include a 12-inch diameter steel manhole cover embedded within a 2-foot x 2-foot square concrete pad, poured and finished to match the existing land grade. A cross-sectional diagram of a typical 4-inch diameter Type II monitor well is presented as Appendix E.

Since the two proposed recovery wells will be installed within existing boreholes, soil samples will not be collected during advancement of the borings.

Each proposed well will be allow to equilibrate prior to development. To develop each new well, SPHERE 3 personnel will attempt to purge an equivalent of four well volumes of groundwater from each well using new, single-use disposal bailers. Actual purge volumes will depend upon the groundwater recharge rates at the time of development.

All waste soils generated as part of the proposed well installation activities will be temporarily stored in a lined roll-off box container. One soil sample will be collected from the cuttings, and will be submitted for total lead analysis using EPA Method 6020B. SPHERE 3 will prepare and submit a waste profile to the ADEM Land Division for review. Upon receipt of the waste disposal approval letter from ADEM, the waste soils will be picked up, transported, and disposed at the approved disposal facility.

RNA is recommended for the dissolved plume associated with this incident because dissolved COCs concentrations at the facility are anticipated not to exceed SSTLs for any reasonably completed human exposure pathway. Consequently, the objective of the CAP will be to reduce the dissolved COCs plume concentrations to levels below the calculated SSTLs protective of the GRP area through a natural degradation process.

To confirm the process of natural degradation of the dissolved COCs, a quarterly groundwater monitoring program will be implemented. Groundwater monitoring will be performed to measure the success of the MEME events and to confirm that the dissolved COCs concentrations are decreasing to levels below the applicable SSTLs.

Prior to each groundwater re-sampling event, groundwater levels in the 12 existing monitor wells (MW-1 through MW-11, and MW-DW1) will be gauged with an oil/water interface probe.

The first three quarterly sampling events following CAP approval will be conducted as "selected well" sampling events. During each of these events, groundwater samples will be collected from nine selected wells, including monitor wells MW-1, MW-2, MW-4, MW-6, MW-7, MW-9, MW-10, MW-11, and MW-DW1. The fourth quarterly sampling event following CAP approval will be conducted as a comprehensive sampling event, with samples to be collected from all 12 incident monitor wells (MW-1 through MW-11, and MW-DW1). Prior to sampling, each well to be sampled will be purged of approximately three well volumes or until dry and allowed to recharge. Each of the samples will be submitted for laboratory analysis of BTEX, MTBE, and naphthalene using EPA method 8260B.

Groundwater purging and sampling will be conducted with single-use, disposable, PVC bailers and nylon rope. SPHERE 3 estimates that approximately 30 gallons of purge liquids will be generated as a result of the purging activities associated with each of the "selected well" sampling events. An estimated 40 gallons of purge liquids will be generated during the comprehensive sampling event. All purge liquids, consisting of petroleum-contact water (PCW) and residual free product (if present), will be temporarily stored on-site within a 275-gallon tote. Liquids in the tote will be evacuated and disposed as part of the subsequent MEME event.

To document the findings of each re-sampling event, an ADEM formatted MEME-Supplemented Natural Attenuation Monitoring Report (NAMR), along with the necessary figures and tables will be prepared and submitted within one month of each re-sampling event.

#### Estimated Duration of Clean-up

The estimated time (or duration) of clean-up has been based solely on experience. The duration is estimated as five years. To estimate the duration, SPHERE 3 assumes:

- no more than 12 quarterly MEME events will be required to significantly reduce the magnitude of the source area dissolved COCs, and;
- all dissolved COCs concentrations will be stable at or below their respective SSTL within 60 months of CAP implementation.

If, after 60 months of CAP implementation, further Corrective Action is required, an amended CAP may be submitted to propose more aggressive techniques to expedite closure.

### QUALITY ASSURANCE/QUALITY CONTROL PLAN

#### Air Sampling

Air samples are collected utilizing a "Pulse Pump" (air sampling) pump. The pump is primed, prior to collection of each sample, to displace any trapped air or gases with the targeted air make-up. The air is drawn in and exits through polyethylene tubing. The sample is stored a Tedlar<sup>®</sup> air/gas sampling bag. The pump is also used to extract air/gases from a vacuum and drive them into a field screening instrument. The air sample collection and screening protocols are described below.

Corrective Action Plan (CP-12) Stop n Shop Shell ADEM Facility ID No. 24381-029-014792; UST15-08-03 1945 Almon Street; Heflin, Alabama 36264 Page 12 of 17

#### **Air Screening**

Air screening is conducted to provide a field indication of the levels of hydrocarbon gases in vapor phase. The air/gases are screened with a Photoionization Detector (PID) equipped with a methane filter. As stated above, the air/gases are driven into the PID with the air sampling pump. The samples are immediately screened at ambient conditions and the data recorded onto a headspace analysis worksheet.

The field screening test form contains the following information:

- 1. The project name (client and location);
- 2. Table number;
- 3. Personnel collecting the samples;
- 4. Field screening instrument used and I.D. number;
- 5. Calibration information;
- 6. Description of field screening method;
- 7. Sample identification information; and
- 8. Field screening data including time collected, time screened, ambient temperature, and field screening reading.

#### Air Sampling Protocols

Each air sample is submitted for laboratory analysis of BTEX, MTBE and TPH (GRO) by EPA method 18. The air samples are transferred, along with an ample supply of ice, in a cooler to an analytical laboratory following appropriate preservation and chain-of-custody protocols. Preservation protocols are not required for BTEX, MTBE and TPH analysis of air samples.

#### Soil Sampling

Soil samples are collected from all soil exploration borings following one of the following ASTM Standard Methods: D-1452 (Practice for Soil Investigation and Sampling by Auger Borings); D-1586 (Method for Penetration Test and Split -Barrel Sampling of Soils); or D-1587 (Practice for Thin-Walled Tube Sampling of Soils) (Note: samples collected from the upper 5 feet of each boring are collected with hand auger equipment). Soil samples are typically collected on either a continuous basis or on five-foot centers (i.e. samples intervals 3'-5', 8'-10', 13'-15', etc.). Each soil sample is divided into two portions. One portion is prepared for field screening and one portion is prepared for analytical testing. The soil sample collection and screening protocols are described below.

#### Soil Screening

Soil screening is conducted to provide a field indication of the relative levels of soil constituent concentrations. In the event that the boring depth is dependent upon the results of the soil screening (vertical extent investigations), the soil samples will be field screened immediately upon collection. Otherwise, the soil samples will be allowed to equilibrate to ambient conditions greater than 60 degrees Fahrenheit for at least one hour prior to soil screening.

The portion of the soil sample collected for field screening is placed in a pint or quart mason type glass jar until the jar is approximately half full. The top of the jar is then sealed with aluminum foil

Corrective Action Plan (CP-12) Stop n Shop Shell ADEM Facility ID No. 24381-029-014792; UST15-08-03 1945 Almon Street; Heflin, Alabama 36264 Page 13 of 17

and a threaded lid ring. The sample is screened by puncturing the aluminum seal with the instrument probe and measuring the headspace of the ambient samples. The instrument currently used by SPHERE 3 is a PID. The PID are calibrated prior to headspace sampling and rechecked upon completion of headspace analysis each day. The PID is calibrated to a benzene standard.

Generally, the soil samples with the highest PID readings collected from the unsaturated zone are selected for analytical testing. If groundwater is not encountered in the boring, two soil samples are analyzed from each boring. Typically, the deepest soil sample and the sample yielding the highest field screening value are selected for analytical testing. Additional soil samples may be selected for analytical testing, depending on site-specific conditions.

#### Soil Sampling Protocol

All undisturbed soil samples are collected using either split spoon sampler (ASTM D-1586) or a Shelby Tube sampler (ASTM D-1587) (Note: soil samples collected from the upper 3 feet in each boring are collected with hand auger equipment). The sampling is conducted by advancing the borehole to the desired depth using a flight auger or hollow-stem auger. A clean split spoon or Shelby tube sampler is then advanced to the bottom of the hole and hammered or pushed into the soil. The sampler is then retrieved. The split spoon samples are removed by opening the split spoon and removing the sample using a clean stainless steel knife. The Shelby tube samples are removed with a hydraulic extruder. After being removed from the sampler, the sample is then placed on disposable foil-lined sample catchers for classification and analytical preparation. Upon completion of the sample collection, the boring is advanced to the depth of the next sample using the hollow stem or flight augers and the sampling procedure is repeated.

The soil samples selected for analytical testing are cored and weighed using either an En Core or Terra Core extruding device. Upon extrusion, the sample cores are placed within a series of 40 mL vials containing a precisely measured quantity of methanol preservative and submitted for appropriate COCs analysis. Each vial is sealed with a Teflon<sup>®</sup> lined cap. Each vial is labeled, placed in a bubble pack and a "Ziploc" bag, and immediately stored, along with an ample supply of ice, in a cooler. Each sample label includes the site location, sample identification number, name of collector, date and time of collection, and parameter(s) requested (if space permits).

All sample handling is conducted with disposable latex gloves. Between individual samples, all disposable items are discarded and all non-disposable equipment (knives, spatulas, cheese cutters, split spoon samplers and Shelby Tube samplers) are decontaminated utilizing the following procedure:

- 1) Rinse with potable water to remove bulk solids;
- 2) Wash with laboratory-grade detergent and potable water solution;
- 3) Rinse with deionized water;
- 4) Wash with isopropanol; and
- 5) Rinse with deionized water.

The soil samples are transferred, along with an ample supply of ice, in a cooler to an analytical laboratory following appropriate preservation and chain-of-custody protocols. Preservation

Corrective Action Plan (CP-12) Stop n Shop Shell ADEM Facility ID No. 24381-029-014792; UST15-08-03 1945 Almon Street; Heflin, Alabama 36264 Page 14 of 17

protocols for COCs soil samples include maintaining samples temperatures at or below 4 degrees Celsius at all time. Additional preservatives are not necessary for soil samples.

#### **Groundwater Sampling**

Groundwater samples are collected approximately 7 to 14 days after monitor well development. Collecting groundwater samples from monitor wells includes the following activities: 1) gauging for the presence of LPH; 2) measurement of static water level; 3) calculation of standing water volume; 4) well purging; 5) sample collection; and 6) equipment cleaning. The results of the sampling activities are recorded on a monitor well sampling record form. The details of these six activities are described in the following sections.

#### **Free Product Measurements**

Free product thicknesses (if present) are measured prior to purging and sampling the well with a hydrocarbon/water interface probe. The thickness is measured by lowering the probe slowly into the well until a tone is heard (Note: an intermittent tone indicates the presence of water and a constant tone indicates the presence of free product). The first point, as the probe is lowered into a well, at which a constant tone is first heard, is considered as the top of the free product. The distance from the top of the PVC well casing to the top of the free product is recorded. This distance is confirmed by re-measuring. The probe is then slowly lowered further into the well until an intermittent tone is heard again. This is considered the free product/water table interface. The distance from the top of the PVC casing to the free product/water table interface. The distance is confirmed by re-measuring.

The free product thickness is determined by calculating the difference between these two distances (Note: the interface probe measures product and water levels to an accuracy of +/- 0.01 feet). If free product is identified by the interface probe, a clear bailer is lowered in the well to collect a sample of the free product for a visual confirmation.

#### **Static Groundwater Elevation Measurements**

The static groundwater levels are measured with the hydrocarbon/water interface probe. The measurements are recorded as the distance from the top of the PVC well casing to the point at which an intermittent tone is emitted from the probe. This distance is confirmed by re-measuring. Subsequently, each measurement is converted to an elevation with respect to either an arbitrary elevation of 100 feet established at the site or to mean sea level as determined from the associated USGS topography map.

#### **Calculations of Standing Water Volumes**

The standing water volume in each well is calculated as the volume of a cylinder:

Volume = 
$$\pi$$
 x diameter<sup>2</sup> ÷ 4 x height,

Where the diameter considered is that of the well casing and the height considered is the length of the water column present in the well.

Corrective Action Plan (CP-12) Stop n Shop Shell ADEM Facility ID No. 24381-029-014792; UST15-08-03 1945 Almon Street; Heflin, Alabama 36264 Page 15 of 17

#### Well Purging

The well purging process is implemented after the static water level is measured and the standing water volume has been calculated. Well purging is generally achieved with an appropriate bailer.

Well purging with a bailer is conducted by attaching new nylon line to the bailer then lowering the bailer in to the well until the bailer is submerged. The bailer is then retrieved from the well in such a manner that the bailer and nylon line does not come into contact with any potential source of hydrocarbon constituents. In order to determine the amount of water removed from the well, the contents of the bailer is poured into a graduated bucket. This procedure is repeated until three well volumes of water are removed or the well is purged dry.

#### **Groundwater Sample Collection**

Groundwater samples are collected from monitor wells not containing LPH. The bailer is lowered into the well to a depth where the bailer is completely submerged. The bailer is then retrieved from the well in such a manner that the bailer and nylon line does not come into contact with any potential source of hydrocarbon constituents. The water is then immediately poured slowly into the sample containers.

Each groundwater sample is submitted for laboratory analysis of BTEX, MTBE & naphthalene by method 8260B. The groundwater is poured slowly down the side of the sample vial to avoid aeration. The sample vial is a laboratory grade 40-ml glass vial with a Teflon<sup>®</sup> septum cap. Sample is added until a convex meniscus is formed at the top of vial. A Teflon<sup>®</sup> septum cap is placed and threaded secure on the container. The container is then upended and checked for the presence of trapped air. If air is present, more sample is added and the process repeated until an air-free sample is attained. The preservation of the BTEX, MTBE & naphthalene groundwater samples includes both ice and hydrochloric acid.

Following the collection of groundwater samples, each is labeled, placed in bubble pack and stored, along with an ample supply of ice, in a cooler. Each label includes the site location, sample identification number, name of collector, date and time of collection, and parameter(s) requested (if space permits). The cooler is then sealed and transported overnight to the laboratory follow appropriate chain of custody protocols.

#### **Cleaning of Groundwater Sampling Equipment**

All equipment used for sampling is either well dedicated or discarded following the completion of the groundwater sampling activities.

#### Chain-of-Custody

Sample custody begins with the subcontracted laboratory as sample kits are prepared and submitted to SPHERE 3. Responsibility for sample container materials and preparation lies with the subcontracted laboratory. Sample containers and kits are normally shipped to SPHERE 3 by common carrier. Upon receipt of the kits, SPHERE 3 personnel complete an inventory of its contents to determine adequacy for the sampling program. Sample bottles may be pre-labeled and contain proper preservative. The sample kits are then re-secured until ready for use.

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Field sampling operations do not normally involve a transfer of sample custody during the project activities. The samples will remain in the custody of the SPHERE 3 personnel until delivered to the subcontract laboratory or dispatched via common carrier for shipment. In cases where samples leave the control of SPHERE 3, such as shipment to a laboratory by a common carrier (e.g. airfreight), a custody seal(s) will be placed on the shipping container. These seals act as a deterrent against vandalism.

To establish the documentation necessary to trace sample possession from time of collection, a chain-of-custody record will be filled out and will accompany every sample. The record contains the following types of information:

- Sample number;
- Signature of collector;
- Date and time of collection;
- Sample type (e.g., ground water, immiscible layer);
- Identification of well;
- Number of containers;
- Parameters requested for analysis, and;
- Signature of person(s) involved in the chain of possession.

### Field and Laboratory Quality Control

SPHERE 3 conducts internal quality control checks of sampling procedures and laboratory analyses. Described below is the field and laboratory QA/QC program.

### Field QA/QC Program

Groundwater samples may be warranted by means of a trip blank. A trip blank is a field blank that is transported from the laboratory to the sampling site, handled the same as other samples, then returned to the laboratory for analysis in determining QA/QC of sample handling procedures. The trip blank should be filled with distilled water in the laboratory at a frequency of one (1) per cooler.

The results of the analysis of the blanks will not be used to correct the groundwater data. If constituents are found in the blanks, an attempt to identify the source will be initiated and corrective action, including resampling, will be evaluated.

After completion of each sampling program, the field data package (field logs, calibration records, chain-of-custody forms, etc.) will be reviewed by the project manager for completeness and accuracy. The review will include but are not limited to the following:

- A completeness review of field data contained on water and soil sampling logs;
- A verification that sampler rinsate blanks, field blanks, and trip blanks were properly prepared, identified, and analyzed;
- A check on field analyses for equipment calibration and condition, and;
- A review of chain-of-custody forms for proper completion, signatures of field personnel, and the laboratory sample, custodian, and dates.

Corrective Action Plan (CP-12) Stop n Shop Shell ADEM Facility ID No. 24381-029-014792; UST15-08-03 1945 Almon Street; Heflin, Alabama 36264 Page 17 of 17

#### Laboratory QA/QC Program

The selection of a contract laboratory is typically based upon several factors including cost; laboratory certification; quality data and reporting; and turn-around time. The most critical factor in the selection of an analytical laboratory is the quality of analysis and reporting.

As an analytical report is received by SPHERE 3, validation of the analytical data package will be reviewed by the project manager. The review will include but not be limited to the following:

- A comparison of the Data Package to the reporting level requirements designed for the project, to ensure completeness;
- A comparison of sampling dates, laboratory extraction dates, and analysis dates to determine if samples were extracted and/or analyzed within the proper holding times;
- A review of analytical methods and required detection limits to verify confirmation with the established parameters, and;
- A review of the laboratory blank(s) to evaluate handling procedures. The preparation techniques and frequencies, and the analytical results (if appropriate) will be considered.

#### SITE HEALTH AND SAFETY PLAN

The site-specific health and safety plan has been updated to include the activities proposed herein and is presented as Appendix F.

#### PERSONNEL AND SUBCONTRACTOR QUALIFICATIONS

The activities associated with the CAP were completed by the following SPHERE 3 personnel/subcontractors:

Project Manager:	Greg Hoagland, P.E.
Report Preparation:	Jonathan A. Hunter, P.G. and Greg Hoagland, P.E.
Report Drafting:	Mark Pate
Report Production:	Karen Embry
Report Review:	Greg Hoagland, P.E.

The project was managed and supervised by Greg Hoagland, Professional Engineer. The report was prepared by Mr. Hoagland and Mr. Hunter. Mr. Hunter and Mr. Hoagland have conducted numerous Preliminary and Secondary Investigations, and have prepared numerous CAPs under the Alabama Tank Trust Fund (ATTF).











Soil Exploration Boring/Type II Monitor Well • Ф

Soil Exploration Boring/Type III Monitor Well





<b>†</b>	Soil Exploration Boring/Type II Monitor Well
Ŧ	Soil Exploration Boring/Type III Monitor Well
	Sample Collection Depth (feet bgs)
В	Benzene Concentration (mg/kg)
Т	Toluene Concentration (mg/kg)
E	Ethylbenzene Concentration (mg/kg)
Х	Total Xylenes Concentration (mg/kg)
MTBE	Methyl-Tertiary-Butyl-Ether Concentration (mg/kg)
NAPH	Naphthalene Concentration (mg/kg)

mg/kg Milligrams per Kilogram

bgs Below the Ground Surface

5	20
<0.005	<0.005
<0.005	<0.005
<0.005	<0.005
<0.015	<0.015
<0.005	<0.005
<0.005	<0.005





<b>†</b>	Soil Exploration Boring/Type II Monitor Well
<del>†</del>	Soil Exploration Boring/Type III Monitor Well
.51)	Potentiometric Surface Elevation (feet a.m.s.l.)
<u>) —</u>	Isopotentiometric Surface Elevation Contour (feet a.m.s.l.)
	Groundwater Flow Direction (12/18/2020)





¢	Soil Exploration Boring/Type II Monitor Well
<del>†</del>	Soil Exploration Boring/Type III Monitor Well
В	Benzene Concentration (mg/L)
Т	Toluene Concentration (mg/L)
Е	Ethylbenzene Concentration (mg/L)
Х	Total Xylenes Concentration (mg/L)
MTBE	Methyl-Tertiary-Butyl-Ether Concentration (mg/L)
NAPH	Naphthalene Concentration (mg/L)
_	Dissolved Benzene Isoconcentration (mg/L)
	Groundwater Flow Direction (12/18/2020)
g/L	Milligrams per Liter





# sphere 3 engineering, inc.

# WATER/FREE PRODUCT LEVEL EVENT DATA

CLIENT: LOCATION:	Krish-Sai, Ll Stop n Shop 1945 Almon Heflin, Alaba	LC Shell (UST Street ama 36264	15-08-03)		Page: File Numbe Event Date Field Perso	r: : nnel:	1 of 1 KS.SSS.01 11/4/2015 HTB; JWJ
Pre - I Post - I	MEME Event MEME Event			Sam Free Produc	npling Event ct Recovery	[	
Monitor Well Identification	Casing Elevation	Depth to Free Product	Depth to Water	Free Product Surface Elevation	Water Surface Elevation	Free Product Thickness	Potentiometric Surface Elevation
						(leet)	
	898.42		23.16	NA	875.26	NA	875.26
MVV-2	898.10	ND	23.22	NA	874.88	NA	874.88
MW-3	897.76	ND	23.99	NA	873.77	NA	873.77

#### Notes:



CLIENT: LOCATION:	Krish-Sai, L Stop n Shop 1945 Almon Heflin, Alaba	LC 5 Shell (UST 5 Street ama 36264	15-08-03)	Page: File Numbe Event Date: Field Perso	r: : nnel:		1 of 1 KS.SSS.02 4/27/2016 HTB; JWJ
Pre - MEME Event				Sam Free Produ	npling Even ct Recovery	: , [	
Monitor Well Identification	Casing Elevation (feet)	Depth to Free Product (feet)	Depth to Water (feet)	Free Product Surface Elevation (feet)	Water Surface Elevation (feet)	Free Product Thickness (feet)	Potentiometric Surface Elevation (feet)
MW-1 MW-2	898.42 898.10	ND ND	18.96 19.86	NA NA	879.46 878.24	NA NA	879.46 878.24
MW-3 MW-4 MW-5	897.76 897.02 898.90	ND ND ND	20.62 20.10 19.83	NA NA NA	877.14 876.92 879.07	NA NA NA	877.14 876.92 879.07
MW-6 MW-7	898.10 895.33	ND ND	21.02 17.85	NA NA	877.08 877.48	NA NA	877.08 877.48
MW-8 MW-9 MW-DW1	896.53 898.49 898.65	ND ND ND	16.63 18.75 20.17	NA NA NA	879.90 879.74 878.48	NA NA NA	879.90 879.74 878.48

#### Notes:



CLIENT:	Krish-Sai, LLC				
LOCATION:	Stop n Shop Shell (UST15-08-03)				
	1945 Almon Street				
	Heflin, Alabama 36264				

Page:	1 of 1
File Number:	KS.SSS.03
Event Date:	1/17/2019
Field Personnel:	HTB; JWJ

Pre - MEME Event	Sampling Event	
Post - MFMF Event	Free Product Recovery	

Monitor Well	Casing	Depth to	Depth to	Free Product	Water	Free Product	Potentiometric
Identification	Elevation	Free Product	Water	Surface	Surface	Thickness	Surface
				Elevation	Elevation		Elevation
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-1	898.42	ND	21.37	NA	877.05	NA	877.05
MW-2	898.10	ND	21.03	NA	877.07	NA	877.07
MW-3	897.76	ND	22.20	NA	875.56	NA	875.56
MW-4	897.02	ND	21.38	NA	875.64	NA	875.64
MW-5	898.90	ND	22.21	NA	876.69	NA	876.69
MW-6	898.10	ND	23.00	NA	875.10	NA	875.10
MW-7	895.33	ND	19.36	NA	875.97	NA	875.97
MW-8	896.53	ND	18.92	NA	877.61	NA	877.61
MW-9	898.49	ND	21.16	NA	877.33	NA	877.33
MW-10	893.98	ND	18.85	NA	875.13	NA	875.13
MW-11	893.08	ND	17.11	NA	875.97	NA	875.97
MW-DW1	898.65	ND	22.03	NA	876.62	NA	876.62

### Notes:



CLIENT:	Krish-Sai, LLC			
LOCATION:	Stop n Shop Shell (UST15-08-03)			
	1945 Almon Street			
	Heflin, Alabama 36264			

Page:	1 of 1
File Number:	KS.SSS.04
Event Date:	12/30/2019
Field Personnel:	HTB; JWJ

**Pre - MEME Event** 

**Sampling Event** 

**Free Product Recovery** 



Post - MEME Event

Monitor Well	Casing	Depth to	Depth to	Free Product	Water	Free Product	Potentiometric
Identification	Elevation	Free Product	Water	Surface	Surface	Thickness	Surface
				Elevation	Elevation		Elevation
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-1	898.42	ND	23.20	NA	875.22	NA	875.22
MW-2	898.10	ND	23.40	NA	874.70	NA	874.70
MW-3	897.76	ND	23.86	NA	873.90	NA	873.90
MW-4	897.02	ND	22.96	NA	874.06	NA	874.06
MW-5	898.90	ND	24.21	NA	874.69	NA	874.69
MW-6	898.10	ND	24.88	NA	873.22	NA	873.22
MW-7	895.33	ND	20.93	NA	874.40	NA	874.40
MW-8	896.53	ND	20.67	NA	875.86	NA	875.86
MW-9	898.49	ND	23.02	NA	875.47	NA	875.47
MW-10	893.98	ND	19.45	NA	874.53	NA	874.53
MW-11	893.08	ND	18.70	NA	874.38	NA	874.38
MW-DW1	898.65	ND	23.73	NA	874.92	NA	874.92
		1					
		1	1				
		1	1				
		1	1		1	1	

## Notes:



CLIENT:	Krish-Sai, LLC
LOCATION:	Stop n Shop Shell (UST15-08-03)
	1945 Almon Street
	Heflin, Alabama 36264

1 of 1
KS.SSS.05
2/28/2020
HTB; JWJ

**Pre - MEME Event** 

**Sampling Event** 

**Free Product Recovery** 

Post - MEME Event

Monitor Well	Casing	Depth to	Depth to	Free Product	Water	Free Product	Potentiometric
Identification	Elevation	Free Product	Water	Surface	Surface	Thickness	Surface
				Elevation	Elevation		Elevation
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-1	898.42	ND	19.02	NA	879.40	NA	879.40
MW-2	898.10	ND	19.81	NA	878.29	NA	878.29
MW-3	897.76	ND	20.10	NA	877.66	NA	877.66
MW-4	897.02	ND	19.48	NA	877.54	NA	877.54
MW-5	898.90	ND	19.63	NA	879.27	NA	879.27
MW-6	898.10	ND	20.42	NA	877.68	NA	877.68
MW-7	895.33	ND	18.39	NA	876.94	NA	876.94
MW-8	896.53	ND	16.88	NA	879.65	NA	879.65
MW-9	898.49	ND	19.11	NA	879.38	NA	879.38
MW-10	893.98	ND	15.83	NA	878.15	NA	878.15
MW-11	893.08	ND	15.07	NA	878.01	NA	878.01
MW-DW1	898.65	ND	19.75	NA	878.90	NA	878.90
PRW-1	unknown	ND	28.60	NA	unknown	NA	unknown
		l	1	1			
			1	1			
		1		1			
	1	1	1	1			

## Notes:



CLIENT:	Krish-Sai, LLC
LOCATION:	Stop n Shop Shell (UST15-08-03)
	1945 Almon Street
	Heflin, Alabama 36264

Page:	1 of 1
File Number:	KS.SSS.06
Event Date:	6/19/2020
Field Personnel:	GAK

Pre - MEME Event

Event

Sampling Event

**Free Product Recovery** 



Post - MEME Event

Monitor Well	Casing	Depth to	Depth to	Free Product	Water	Free Product	Potentiometric
Identification	Elevation	Free Product	Water	Surface	Surface	Thickness	Surface
				Elevation	Elevation		Elevation
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-1	898.42	ND	18.38	NA	880.04	NA	880.04
MW-2	898.10	ND	19.31	NA	878.79	NA	878.79
MW-3	897.76	ND	20.17	NA	877.59	NA	877.59
MW-4	897.02	ND	19.66	NA	877.36	NA	877.36
MW-5	898.90	ND	19.33	NA	879.57	NA	879.57
MW-6	898.10	ND	20.65	NA	877.45	NA	877.45
MW-7	895.33	ND	17.38	NA	877.95	NA	877.95
MW-8	896.53	ND	15.83	NA	880.70	NA	880.70
MW-9	898.49	ND	18.06	NA	880.43	NA	880.43
MW-10	893.98	ND	16.17	NA	877.81	NA	877.81
MW-11	893.08	ND	15.63	NA	877.45	NA	877.45
MW-DW1	898.65	ND	19.17	NA	879.48	NA	879.48
PRW-1							
			1		1		

## Notes:



CLIENT:	Krish-Sai, LLC
LOCATION:	Stop n Shop Shell (UST15-08-03)
	1945 Almon Street
	Heflin, Alabama 36264

Page:	1 of 1
File Number:	KS.SSS.08
Event Date:	9/10/2020
Field Personnel:	JWJ; GAK

Pre - MEME Event

**Sampling Event** 

**Free Product Recovery** 

Post - MEME Event

Monitor Well	Casing	Depth to	Depth to	Free Product	Water	Free Product	Potentiometric
Identification	Elevation	Free Product	Water	Surface	Surface	Thickness	Surface
				Elevation	Elevation		Elevation
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-1	898.42	ND	20.66	NA	877.76	NA	877.76
MW-2	898.10	ND	21.28	NA	876.82	NA	876.82
MW-3	897.76	ND	21.93	NA	875.83	NA	875.83
MW-4	897.02	ND	21.22	NA	875.80	NA	875.80
MW-5	898.90	ND	21.66	NA	877.24	NA	877.24
MW-6	898.10	ND	22.74	NA	875.36	NA	875.36
MW-7	895.33	ND	19.08	NA	876.25	NA	876.25
MW-8	896.53	ND	18.23	NA	878.30	NA	878.30
MW-9	898.49	ND	20.35	NA	878.14	NA	878.14
MW-10	893.98	ND	17.77	NA	876.21	NA	876.21
MW-11	893.08	ND	17.10	NA	875.98	NA	875.98
MW-DW1	898.65	ND	21.37	NA	877.28	NA	877.28
PRW-1							
	1					1	

## Notes:


#### WATER/ FREE PRODUCT LEVEL DATA

CLIENT: Krish-Sai, LLC LOCATION: Stop n Shop Shell (UST15-08-03) 1945 Almon Street Heflin, Alabama 36264

Page:	
File Number:	K
Event Date:	12
Field Personnel:	J

1 of 1 (S.SSS.09 2/18/2020 JGH; GAK

Pre - MEME Event

Free Product Recovery

Sampling Event



Post - MEME Event

Monitor Well	Casing	Depth to	Depth to	Free Product	Water	Free Product	Potentiometric
Identification	Elevation	Free Product	Water	Surface	Surface	Thickness	Surface
				Elevation	Elevation		Elevation
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-1	898.42	ND	21.91	NA	876.51	NA	876.51
MW-2	898.10	ND	22.38	NA	875.72	NA	875.72
MW-3	897.76	ND	23.00	NA	874.76	NA	874.76
MW-4	897.02	ND	22.19	NA	874.83	NA	874.83
MW-5	898.90	ND	23.03	NA	875.87	NA	875.87
MW-6	898.10	ND	23.79	NA	874.31	NA	874.31
MW-7	895.33	ND	20.02	NA	875.31	NA	875.31
MW-8	896.53	ND	19.33	NA	877.20	NA	877.20
MW-9	898.49	ND	21.66	NA	876.83	NA	876.83
MW-10	893.98	ND	18.68	NA	875.30	NA	875.30
MW-11	893.08	ND	17.98	NA	875.10	NA	875.10
MW-DW1	898.65	ND	22.65	NA	876.00	NA	876.00
PRW-1							

#### Notes:

Elevations are referenced to a mean-sea-level elevation estimated at 900.00 feet. Water and Free Product depths were measured and recorded to the nearest 0.01 foot. Potentiometric Surface Elevation = Water Surface Elevation + 75% of the Free Product Thickness



Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineering, Inc.		Report Date:	November 3, 2015		
Attention:	Mr. Greg	g Hoagland	Reference #	33906	
Address:	3433 Sie	rra Drive	P.O. #	verbal	
	Hoover,	AL 35216	Project ID:	Heflin Shell	
Sample Ma	atrix:	soil	Analytical		
Date Recei	ved:	10/28/15	Analyst:	Hageman/Heard	
Date Colle	cted:	10/27/15	Date of Analysis:	11/2/15	
Sample Co	llector:	G. Karstens	Method:	EPA Method 8260B	

<b>VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE</b>									
	FIELD ID								
	SB1 20'	SB1 25'	SB2 20'	SB2 25'	SB3 20'	SB3 25'			
Volatile	LAB ID	Detection							
Organic, ppm	167391	167392	167393	167394	167395	167396	Limit, ppm		
Benzene	BDL	BDL	BDL	0.020	BDL	BDL	0.005		
Toluene	BDL	BDL	BDL	0.018	BDL	BDL	0.005		
Ethylbenzene	BDL	BDL	BDL	0.005	BDL	BDL	0.005		
Xylenes, o,m,p	BDL	BDL	BDL	0.056	BDL	BDL	0.015		
MTBE	0.063	0.088	0.007	0.033	BDL	BDL	0.005		
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.005		
	FIELD ID	FIELD ID							
	SB4 20'	SB4 25'							
Volatile	LAB ID	LAB ID					Detection		
Organic, ppm	167397	167398					Limit, ppm		
Benzene	BDL	BDL					0.005		
Toluene	BDL	BDL					0.005		
Ethylbenzene	BDL	BDL					0.005		
Xylenes, o,m,p	BDL	BDL					0.015		
MTBE	BDL	BDL					0.005		
Naphthalene	BDL	BDL					0.005		

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as ppm of analyte

MA / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Do

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineering, Inc.		Report Date:	November 3, 2015	
Attention:	ention: Mr. Greg Hoagland		Reference #	33906
Address:	3433 Sie	r <del>r</del> a Drive	P.O. #	verbal
	Hoover,	AL 35216	Project ID:	Heflin Shell
Sample Ma	trix:	soil	Analytical	
Date Recei	ved:	10/28/15	Analyst:	R. Currence
Date Collec	cted:	10/27/15	Date of Analysis:	10/29/15
Sample Co	llector:	G. Karstens	Method:	EPA Method 418.1 Modified for soils

TOTAL PETROLEUM HYDROCARBONS									
FIELD ID	LAB ID	ТРН, РРМ	D.L., PPM						
Spoil	167399	BDL	10						

BDL = Below Detection Limit D.L. = Detection Limit, Practical All results expressed as PPM (mg/Kg)

MH I QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Nen Dorge

Kevin Doriety Analytical Chemist

1. Is the client and the sample collector(s) accurately noted on report?	NO	NO YES
2. Do all dates match the COC on the report?	NO	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO	NO YES
4. Are all methods and method references correct on report	NO Y	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NOY	NO YES
6. Is the report formatted correctly?	NO	NO YES
7. Does the following information on report correspond to t printout information from the analytical instrumentation	he :	
Sample Matrix	NO	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	NO	NO YES
Units	NO	NO YES
Dilution Factors/Conversions	NO	NO YES
Detection/Reporting/Quant. Limits	NO	NO YES
Detection/Reporting/Quant. Limits QC Reviewed:	NO YES	NO YES
Detection/Reporting/Quant. Limits QC Reviewed: Initial:	NO SES	NO YES
Detection/Reporting/Quant. Limits QC Reviewed: Initial: PDF: <u>G. Kagland</u> + <u>G. Karstens</u>	NO MUN 32906	VES YES

Sample Chee	<u>ck-in Form</u>			
Date Received: 10/28/15 Method of Delivery: NANA	Invoice #	<u>339</u> Sor	706 Verr. 2	
	Chentr	<u> </u>		<u> </u>
1. Did any containers arrive broken?		YES	NO	
* If so, please state field ID with analysis of broken samp	ple(s)			
2. Were cooler(s) sealed upon arrival?		YES	NO	NA
3. Were the samples received at the proper teamperature (4	°C +/- 2°C)?	(YES)	NO	NA
4. Did a chain of custody accompany the samples?		Æs	NO	
* Was it properly filled out?		<b>G</b> ES	NO	
5. Were correct containers used for the analysis requested?		YES	NO	
6. Were all containers properly preserved?		YES	NO	$\mathbf{k} \mathbf{k}$
7. Were all water samples received at the proper pH?		YES	NO	(A)
8. If VOA vials were present, was there any head space?		YES	NO	Ø
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of	custody?	(KES	NO	
10. Did containers arrive within holding time of analysis? .		YES	NO	
* If not, please state field ID and analysis of sample(s) o	ut of holding time:			
11. Was client informed of any/all deficiencies in sample cl	neck-in?	YES	NO	(NA)
12. Were any samples rejected?		YES	$\odot$	
* If so, please state field ID of rejected sample(s):				
Sample Custodian (signed):				

		CHAIN OF CUSTODY		SEND REPORT TO:				Invoice #	32QN	~		
Sutherland				ANALYSIS REQUEST		Name:	629.6	HONG	olaria	>	$\mathcal{I}\mathcal{I}$	Ľ
Environmental C	nvironmental Company, Inc.					Company:	SPAGA	د کی	80614	Sugar	NG	
2515 5th Avenue South						Address:	3433	514	res o	RIVE_		
BIRMINGHAM,	AL 35233						1-100/	14c_	AL 3	51214	-	
PHONE (205)581	-9500 FAX (205)58	1-9504			_	Phone#:		1		Cell #		
E-Mail: suthlab@	bellsouth.net			Client P.O. #		E-mail:						
					Р	DF Results:	yes	no		Fax #:		
							1					
CLIENT:	( D DA CRA			PROJECT			SAMPLER	$\frac{(S)}{2}$			ar	
1-400	sa flogus	vss,	, INC	49-U~ 5/~~	<u>y</u>		(print)		SCS V		>, $r, c$	<u>ک</u> ر د
						-	ANALI	515 KEQU				
					Da.							
DATE DELIVE	$\frac{\text{RED: } \sqrt{2}}{2}$	<u>}15</u>			1 DRX	NWEI	TOH					Number
		DATE	TIME		MRG		1 6 4 7					of sample
LAB ID		Collect	ed Collected	SAMPLE DESCRIPTION (matrix)	(1)							containers
16[391]	SB 20)	10/2	7635	SOIL BORINE	~							l
107392	531 251	{	6050	2	V	1						t
(1793)	SBZ Zal		1330	5 -	1	_/						1
1107394	562-251		1350	<u> </u>	1							1
107295	(B3 2-1		1120	· · · · · · · · · · · · · · · · · · ·	L/							ý
10.7201	$\frac{0}{2}$		100									1
101010	177 25	+ (-	1141									
121341	554 201		140		r r	V						}
161318	SIDY 25		1270		V	<u> </u>						
141394	SPOIL	A	J1430	SUON PILZ			$\checkmark$					
Preservative: (a)HC	L, (b)HNO3, (c)H2SO4; (d)N	laOH. (e) N	(a <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , (f) H <sub>3</sub> P	O4. (g)Zn Acetate Preservative:	$\sim$	Cria	4°C					Last revised
Container type: (a	) Amber, (g) Gla <u>ss, (</u> p)	Plastic, (	v) VOC Via	l, (air) air bag Container:	AUZ	6233						5/29/12
Relinquished by S	ampler:	Date	Time	Received by:	Date	Time	<u>Turn Arou</u>	nd Time (	please note	<u>)</u> :		
Signed;	ast	lioby	12:23	Signed:			Standard	<u></u>	*2 D	*RUSH, mark	below	
·~~	Contona				Data		Remarks:	*3-Da		/ *.Next D	ay Same Day	
Relinquished by:		Date	Time	Received by: Signed:	Date	Time	-7-5					
Signed.				Sigirou.				~ ~				
Relinguished by:		Date	Time	Received in Laboratory by:	Date	Time						
Signed:				Signed	1/ de	1:20						
				Malan	MAG	000	Refrigerated	upon receipt	( yes	ne		
				U					$\sim$			_

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Client: Sphere 3 Engineering, Inc.		Report Date:	April 18, 2016	
Attention:	Mr. Greg	Hoagland	Reference #	34895	
Address:	3433 Sier	ra Drive	P.O. #	verbal	
	Hoover, A	L 35216	Project ID:	Stop N Shop Shell	
Sample Ma	trix:	soil	Analytical		
Date Receiv	ved:	4/12/16	Analyst:	Hageman/Heard	
Date Collec	cted:	4/8/16 & 4/11/16	Date of Analysis:	4/15-16/16	
Sample Co	llector:	G. Karstens	Method:	EPA Method 8260B	

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE										
	FIELD ID HS-SB5 15'	FIELD ID HS-SB5 20'	FIELD ID HS-SB6 15'	FIELD ID HS-SB6 20'	FIELD ID HS-SB7 20'	FIELD ID HS-SB7 25'				
Volatile	LAB ID	Detection								
Organic, ppm	172148	172149	172150	172151	172152	172153	Limit, ppm			
Benzene	BDL	BDL	BDL	BDI.	BDL	0.098	0.005			
Toluene	BDL	BDL	BDL	BDL	BDL	0.097	0.005			
Ethylbenzene	BDL	BDL	BDL	BDI,	BDL	0.025	0.005			
Xylenes, o,m,p	BDL	BDL	BDL	BDL	BDL	0.303	0.015			
MTBE	BDL.	BDL	BDL	BDL	0.007	0.089	0.005			
Naphthalene	BDL	BDI.	BDL	BDL	BDL	0.122	0.005			
	FIELD ID									
	HS-SB8 20'	HS-SB8 25'	HS-SB9 15'	HS-SB9 20'	HS-DW 20'	HS-DW 25'				
Volatile	LAB ID	Detection								
Organic, ppm	172154	172155	172156	172157	172158	172159	Limit, ppm			
Benzene	BDL	BDI.	0.011	0.010	BDL	BDL	0.005			
Toluene	BDL	BDL	BDI.	BDL	BDL	BDL	0.005			
Ethylbenzene	BDL	BDI.	BDL	BDL	BDL	BDL	0.005			
Xylenes, o,m,p	BD1.	BDL	BDL	0.020	BDI.	BDI.	0.015			
MTBE	BDL	BDL	0.106	0.016	0.022	0.077	0.005			
Naphthalene	BDL	BDI.	BDL	BDL	BDL	BDL	0.005			

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as ppm of analyte

/QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Do

Kevin Doriety Analytical Chemist

						1
1. Is the client and the sample coller on report?	ctor(s) accurately noted	NO	YBS	NO	YES	-
2. Do all dates match the COC on the	ne report?	NO	YES	NO	YES	
3. Is the purchase order ID (PO) and noted on report?	l project ID accurately	NO	YAS	NO	YES	
4. Are all methods and method refe	rences correct on report	? <u>NO</u>	yks	NO	YES -	
5. Do the Field ID(s) and the Lab II COC?	D(s) correspond to the	NO	YBS	NO	YES -	
6. Is the report formatted correctly?		NO	YES	NO	YES	
7. Does the following information of printout information from the an	n report correspond to t alytical instrumentation	he :				
Sample Matrix		NO	YES	NO	YES	
Analyst		NO	YES	NO	YES	
Analysis Date/	Time	NO	VIES	NO	YES	
Analyte conce	ntration	NO	Ves	NO	YES	
Units		NO	12BSS	NO	YES	
Dilution Facto	rs/Conversions	NO	YES-	NO	YES	
Detection/Rep	orting/Quant. Limits	NO	VARS	NO	YES	
QC Reviewed:			YES		YES	
Initial*:	= Michael Heard KD = Ke	vin Doriety M	$\underline{n}$			
PDF: G. HOagland, K	austena	• ni 1901/cty, Mi	712ar	, KH – Kelly R	-31671	
Notes:	Invoic	e # Suther	37075 land Environmental (	Co., Inc.		

Sample Check	<u>k-in Form</u>			
Date Received: 4/12/16	Invoice #	3	4895	
Method of Delivery: <u>hand</u>	Client:	_SP	here	3_
1. Did any containers arrive broken?		YES	140	
* If so, please state field ID with analysis of broken sample	e(s)			
2. Were cooler(s) sealed upon arrival?		VES	NO	NA
3. Were the samples received at the proper teamperature (4°C	c +/- 2°C)?	VES	NO	NA
4. Did a chain of custody accompany the samples?		VES	NO	
* Was it properly filled out?		VES	NO	
5. Were correct containers used for the analysis requested?		VES	NO	
6. Were all containers properly preserved?		VYES	NO	NA
7. Were all water samples received at the proper pH?		Vres	NO	NA
8. If VOA vials were present, was there any head space?		YES	NO	\NA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of cu	istody?	YES	NO	
10. Did containers arrive within holding time of analysis?		VES	NO	
* If not, please state field ID and analysis of sample(s) out	of holding time:			
	, i i i i i i i i i i i i i i i i i i i			
11. Was client informed of any/all deficiencies in sample che	ck-in?	YES	NO	<b>N</b> A
12. Were any samples rejected?		YES	WO	
* If so, please state field ID of rejected sample(s):				
Sample Custodian (signed): Mülly	Can			

	CHAIN OF CUSTODY	SEND	REPORT TO:	Invoice #	21.9ar
Sutherland	ANALYSIS REQUEST	Nan	nc: GREG Hor	cino	34095
Environmental Company, Inc.		Compa	iv: sphace :	3 ENG	
2515 5th Avenue South		Addre	ss: 3433 St	LEA DRIVE	
BIRMINGHAM, AL 35233			Ht DV Corn	1 35216	
PHONE (205)581-9500 FAX (205)581-9504		Рюле	#:	Cell #	
E-Mail: suthlab@bellsouth.net	Client P.O. #	E-ma	it:		
	Chent 1.0. #	PDF Resul	ts: yes no	Fax #:	
CLIENT: KOISU-SAT. LLC	PROJECT: STOP N SHOP	SHALL	SAMPLER(S):	KNUTTIS	PG
			(print) ANALYSIS RE	OUESTED / METHOD	<u>n 1 m C n</u> Mandialia
		BLEY			
DATE DELIVERED: 7 7 2-16		Acres man	t		Number
FIFT D ID DATE TIME	SAMPLE DESCRIPTION (matrix)	MOE	č.		of sample
Collected Collected			· · · · · · · · · · · · · · · · · · ·		containers
16 48 HS-565 151 710 045	Sal Dozintes	V er			
174 49 43 55 201 418 7005	<u> </u>	0 0			)
172 50 HS 56 15' 4/3 1040	(				1
1215 43 56 20 418 1050	)				1
17215243567 201 4/8 1125	· /	1			
17153 48 87 251 48 1185		4			
112,154 4 68 20' 4/11 1010	)	~ /			
177155118 50 211 4/11 1020		1			1
177150116501614/4 1150		01			1
17715711850 21 4/11 122	)	0 0			T
17716016 01 21 40 11		1 1			
11/1/01/2 0. 201 01/2 1/1/20					
11619-114 JIW 451 118 1740		1110 10	2		
Preservative: (a)HCL, (b)HNO <sub>3</sub> , (c)H <sub>2</sub> SO <sub>4</sub> , (d)NaOH, (e) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , (l) H <sub>3</sub> I	POJ, (g)Zn Acetate Preservative:	400 40	1ar		Last revised
Relinguished by Sampler: Date Time	Received by:	Date Time	Turn Around Tir	ne (please note):	5/29/12
Signed:	Signed:		Standard	*RUSH, mark	s below
1 1 Cather 412/6 1046			*	3-Day *2-Day *Next D	ay *Same Day
Relinquished by: Date Time	Received by:	Date Time	Remarks:		
Signed:	Signed:	and the second	T.F.		
Delinquished hu	Dessioned in Laboratory, but		=		
Signed:	Signed:	Alo lu			
- Ageneration of the second	M. LAN	91416 10:5	Refrigerated upon re-	vipt: yes no	

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3 Engineering, Inc.	Report Date:	May 3, 2016
Attention:	Mr. Greg Hoagland	Reference #	34894
Address:	3433 Sierra Drive	P.O. #	KSSSS.02
	Hoover, AL 35216	Project ID:	Stop N Shop Shell
Sample Mat	trix: soil	Analytical	
Date Receiv	ved: 4/12/16	Analyst:	Kevin Doriety/D. Brown
Date Collect	ted: 4/8/16	Date of Analysis:	4/20/16-5/3/16
Sample Coll	lector: G. Karstens	Method:	(Listed Below)

	PHYSICAL CHARACTERISTICS OF SOIL													
		Gravimetric Moisture Content g-water/ g-soil	Volumetric Moisture Content cc-water/ cc-soil	Dry Bulk Density pef	Dry Bulk Density g/cc	Specific Gravity @ 20° C	Porosity cc /cc-soil	Fractional Organic Matter Content g-ash/ g-soil	Fractional Organic Carbon Content g-carbon/ g-soil					
Field ID	Lab ID	(1)	(1a)	(2)	(2)	(3)	(4)	(5)	(6)					
ST-1	172146	0.1700	0.2907	107	1.71	2.85	0.3986	0.0116	0.0067					
ST-2	172147	0.2670	0.3872	90.5	1.45	2.76	0.4747	0.0125	0.0072					

#### Test Methods/Calculations:

MC = Moisture Contect DBD = Dry Bulk Density SG = Specific Gravity

(1) ASTM D2216

- (1a) Volumetric MC = Gravimetric MC x DBD (g/cc)
- (2) ASTM D2937
- (3) ASTM D854
- (4) Porosity = 1 [DBD (g/cc) / SG (g/cc)]
- (5) ASTM D2974

(6) Fractional Organic Carbon Content = Fractional Organic Matter Content / 1.724

#### Method References

ASTM D04.08

ADEM, 2001, UST ARBCA Guidance Manual (pgs 5-11 - 5-13)

\_\_\_\_\_/ QAQC EPA Laboratory ID AL01084

ADEM #41470

Respectfully submitted,

Noi Doug

Kevin Doriety Analytical Chemist

1. Is the client and the sample collector(s) accurately noted NO YES NO YES
2. Do all dates match the COC on the report? NO YES NO YES
3. Is the purchase order ID (PO) and project ID accurately NO YES NO YES
4. Are all methods and method references correct on report? NO YES NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the NO YES NO YES
6. Is the report formatted correctly?
7. Does the following information on report correspond to the printout information from the analytical instrumentation:
Sample Matrix NO YRS NO YES
Analyst Analyst YES NOT YES
Analysis Date/Time
Analyte concentration NO YES NO YES
Units NO YES NO YES
Dilution Factors/Conversions NO YES NO YES
Detection/Reporting/Quant. Limits NO YES NO YES
QC Reviewed:
<i>Initial*:</i> * MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester
PDF: <u>6 Hoagland</u> , Karstens Notes: Invoice # <u>24894</u> Sutherland Environmental Co., Inc.

Sample Check	-in Form			
Date Received:4 12 16	Invoice #	34	4894	
Method of Delivery: <u>hand</u>	Client:	<u>Sp</u>	here	3
1. Did any containers arrive broken?		YES	MO	
* If so, please state field ID with analysis of broken sample(	(s)			
2. Were cooler(s) sealed upon arrival?		VES	NO	NA
3. Were the samples received at the proper teamperature (4°C $\cdot$	+/- 2°C)?	WES	NO	NA
4. Did a chain of custody accompany the samples?		VES	NO	
* Was it properly filled out?		VES	NO	
5. Were correct containers used for the analysis requested?		VES	NO	
6. Were all containers properly preserved?		VYES	NO	NA
7. Were all water samples received at the proper pH?		VES	NO	NA
8. If VOA vials were present, was there any head space?		YES	NO	WA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of cus	stody?	Ves	NO	
10. Did containers arrive within holding time of analysis?		Ves	NO	
* If not, please state field ID and analysis of sample(s) out of	of holding time:			
11. Was client informed of any/all deficiencies in sample chec	k-in?	YES	NO	MA
12. Were any samples rejected?		YES	NØ	
* If so, please state field ID of rejected sample(s):				
Sample Custodian (signed): Mally (	CAN			

SUTHERLAND ENVIRONME TESTING LABORATORY	NTAL	2515 5t Birmine	h Ave gahm	enue I, AL	Sou 352	th 33			Ph	one: Fax:	: 2(	)5 5 )5 5	581 581	95( 95(	00 04									S	phe	ere	e 3 e	ر بر ngi	34 Nee	S Pi	39 Ng	4 , <b>i</b> nc.	
Consultant Name:	SPHERE 3 Eng	gineering	, Inc.																Paç	e#	: Pa	ge 1	of 1										
Address:	3433 Sierra Dri	ive																Invo	oice	то	: SP	HER	RE 3	Eng	inee	ring	, Inc.						
City/State/Zip:	Hoover, AL 35	216																Rep	port	То	: Gr	∋g⊦	loag	land	ł								
Client:	Krish-Sai, LLC															_		Pr	oje	ct #	: KS	SSS	6.02										
Consultant Project Mgr:	Greg Hoagland	i								_							F	Faci	lity	ID #	# Sto	p n	Sho	ip S	hell								
Consultant Telephone Number	205 403 3317				_	Fa	x N	o.: :	205	403	33	18					S	ite A	٨dd	ress	<b>1</b> 94	45 A	lmo	n St	reet	: (Hi	ighway	9)					
Sampler Name: (Print)																	City	, St	ate,	Zip	He	flin,	Clei	ourn	e C	oun	ty, AL				_		
Sampler Signature:													_	Re	gul	ato	ry D	Distr	ict	(CA	) Ala	ban	na						_				
								-	Pre	serva	ativ	e			1	Vatr	rix		Г				Ana	ilyze	e Fo	ŕ:							
									Т			Γ			Т			Т			Τ	Γ		Í	ent	fe			╋		Γ		1
Sample ID or Fleld ID <u>ST 1</u> 17214b <u>ST 2</u> 172141	C C Date Sampled	Time Sampled	No. of Containers Shipped	X X Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	NaOH ( Orange Label) H <sub>3</sub> SO <sub>4</sub> Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)	HNO <sub>3</sub> (Red Label)	X X None (Black Label)	Groundwater	Wastewater	Drinking Water	X Soil	Other (specify): WATER	X X Gravimetric Moisture Content	X X Volumetric Moisture Content	X X Dry Bulk Density (PCF)	X X Dry Bulk Density (G/CC)	X X Specific Gravity @ 20° C	X X Porosity	X X Fractional Organic Matter Conte	X X Fractional Organic Carbon Cont			RUSH TAT (Pre-Schedule)	Z Z TAT request (in Bus. Days)		Date of Report	
											┢	1						T				$\square$	1								П		
									$\top$		╈						╈	$\top$	Γ				$\square$	1-	$\square$	$\square$		+	Τ		$\square$		
											1	1								1					$\square$	1			Τ		$\square$		
Comments/Special Instructions T.F. Relinquished by: Relinquished by:	Date A - L2 - Date	-16	Tin (6) Tin	ne 34 ne	Rece	ived b	oy:									Dat	e		Tin	ne ne	La QC Lev Lev	Te Sa VC Dei /el 2 /el 3 /el 4	mpe mple )Cs liver	y Co ratu e Co Free able	omn Ire L ontai e of I s (pl	hen Jpol iner Hea eas	its: n Rece s Intac adspac <u>e circle</u>	ipt: t? e? <u>one</u> )	Y Y		N N N		
				-		11	1	. (	_0	U	Л	/			4	12	16		0:2	39	Sit	e Sp oject	ecifi Mar	c - if tage	yes or or	, ple atta	ease pr ach spe	e-sch cifc ir	nedul nstru	e w ctio	//SU		ND

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Sphere 3	Engineering, Inc.	Report Date:	April 13, 2016
Mr. Greg	g Hoagland	Reference #	34896
3433 Sie	rta Drive	P.O. #	verbal
Hoover,	AL 35216	Project ID:	Stop N Shop Shell
itrix:	soil	Analytical	
ved:	4/12/16	Analyst:	R. Currence
cted:	4/11/16	Date of Analysis:	4/13/16
llector:	G. Karstens	Method:	EPA Method 418.1 Modified for soils
	Sphere 3 Mr. Greg 3433 Sie Hoover, trix: ved: cted: llector:	Sphere 3 Engineering, Inc. Mr. Greg Hoagland 3433 Sierra Drive Hoover, AL 35216 trix: soil ved: 4/12/16 cted: 4/11/16 llector: G. Karstens	Sphere 3 Engineering, Inc.Report Date:Mr. Greg HoaglandReference #3433 Sierra DriveP.O. #Hoover, AL 35216Project ID:trix:soilAnalyticalved:4/12/16Analyst:cted:4/11/16Date of Analysis:llector:G. Karstens

Т	TOTAL PETROLEUM HYDROCARBONS											
FIELD ID	LAB ID	ТРН, РРМ	D.L., PPM									
HS-SP1	172160	BDL	10									

BDL = Below Detection Limit D.L. = Detection Limit, Practical All results expressed as PPM (mg/Kg)

MA /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Ere

Kevin Doriety Analytical Chemist

1. Is the client and the sample collector(s) accurately noted on report?	NO	NO YES
2. Do all dates match the COC on the report?	NO	NO
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO	NO YES
4. Are all methods and method references correct on report?	NO	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO	NO YES
6. Is the report formatted correctly?	NO	NO YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:		
Sample Matrix	NO	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	NO	NO YES
Units	NO	NO YES
Dilution Factors/Conversions	NO	NO
Detection/Reporting/Quant. Limits	NO	NO YES
QC Reviewed:	XES	YES
Initial*:	MH)	hoff
PDF: <u>G7. Hoadland 4G</u> . Kaistens Invoice #	348910	, Kri = Kcily Hester
Notes:	Sutherland Environmental	Co., Inc.

Sample Che	ck-in Form			
Date Received: 4 12/16	Invoice #	3	4896	_
Method of Delivery:	Client:	_Sp	here	3
1. Did any containers arrive broken?		YES	NØ	
* If so, please state field ID with analysis of broken sam	ple(s)			
2. Were cooler(s) sealed upon arrival?		Ves	NO	NA
3. Were the samples received at the proper teamperature (4	<sup>o</sup> C +/- 2 <sup>o</sup> C)?	<b>NYES</b>	NO	NA
4. Did a chain of custody accompany the samples?		VIES	NO	
* Was it properly filled out?		VES	NO	
5. Were correct containers used for the analysis requested?		VES	NO	
6. Were all containers properly preserved?		Vres	NO	NA
7. Were all water samples received at the proper pH?		YES	NO	NA
8. If VOA vials were present, was there any head space?		YES	NO	MA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of	custody?	YES	NO	
10. Did containers arrive within holding time of analysis? .		Nes	NO	
* If not, please state field ID and analysis of sample(s) of	out of holding time:			
11. Was client informed of any/all deficiencies in sample c	heck-in?	YES	NO	
12. Were any samples rejected?		YES	ŇØ	
* If so, please state field ID of rejected sample(s):				
Sample Custodian (signed):	Carl			

				CHAIN OF CUSTOD		SEND RE	PORT TO	):	Invoice #	#	71.091.			
Sutherland				ANALYSIS REQUES	Т		Name	CREC	HOAG	(sun)			570	10
Environmental C	Сотрану, Іпс.						Company	SPJA	RE 3	800	_	_		
2515 5th Avenue	South						Address	342	3 519	207 1	RIVE	2		
BIRMINGHAM,	AL 35233							400	Vaz, A	n 31	5216	_		
PHONE (205)583	I-9500 FAX (205)58	1-9504				_	Phone#:		/	-	Cell #	+		
E-Mail: suthlab@	bellsouth.net			Client P.O. #			E-mail:							
0.00		_				Р	DF Results:	yes	по		Fax #:			
				utan terteta (neu) del detaj deljusije inder nistova (nisto traditisko del terteta inderina November 201				T						
CLIENT:	TAZ HIT	111		PROJECT: STOP N	150	LP S	1611	SAMPLE	R(S):	10177	15	PL		
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DATE DELIVE	$PED$ $\mathcal{L}$ ; 2	57				-							Í	
	KED: 7~16					TPH								Number
I AB ID	FIELD ID	DATE	TIME	SAMPLE DESCRIPTION (ma	trix)	· ·								of sample
17711 6		Collected	Collected	See 2 2 4 Due										containers
11/100	42-201	-(111)	1200	JAC JOCOTICE	2	0							10000	1-1-1
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						1001	1				_		<u> </u>	
Preservative: (a)HC	$L$ , (b) $HNO_3$ , (c) $H_2SO_4$ , (d) $N$	aOH, (e) Na <sub>2</sub> S	52O3, (I) H3P	O <sub>4</sub> , (g)Zn Acetate <b>Preserv</b>	ative:	100	2400	21					<u> </u>	Last revised
Relinquished by S	ampler	Plastic, (V)	Time	Received by:	amer:	Date	Time	Turn Are	und Time (1	lease note	):	<u> </u>		5/29/12
Signed:		.11		Signed:		Dute	Time	Standard	unu rin <u>ic (</u>	nuse hore	z. *RUSH, mar	k below		
	arthur	7/12/16	1040						*3-Day	/ *2-Day	*Next	Day *Şa	me Day	
Relinquished by:		Date	Time	Received by:		Date	Time	Remarks:						
Signed:				Signed:				7						
								Γ-	. (					
Relinquished by:		Date	Time	Received in Laboratory by:		Date	Time							
Sifuca:				Signed: M. CAM		411416	10:55	Refrigerated	upon receipt	VCS	110			

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3 H	Engineering, Inc.	Report Date:	January 9, 2019	
Attention:	Mr. Greg	Hoagland	Reference #	40328	
Address:	3433 Sierr	a Drive	P.O. #	KSSSS.03	
	Hoover, A	L 35216	Project ID:	Stop n Shop Shell	
Sample Ma	trix:	soil	Analytical		
Date Receiv	ved:	1/7/19	Analyst:	Hageman/Heard	
Date Collec	cted:	1/7/19	Date of Analysis:	1/8-9/19	
Sample Col	llector:	G. Karstens	Method:	EPA Method 8260B	

<b>VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE</b>														
	FIELD ID	FIELD ID	FIELD ID	FIELD ID										
	SB10 15'	SB10 20'	SB11 15'	SB11 20'										
Volatile	LAB ID	LAB ID	LAB ID	LAB ID		Detection								
Organic, ppm	201417	201418	201419	201420		Limit, ppm								
Benzene	BDL	BDL	BDL	BDL		0.005								
Toluene	BDL	BDL	BDL	BDL		0.005								
Ethylbenzene	BDL	BDL	BDL	BDL		0.005								
Xylenes, o,m,p	BDL	BDL	BDL	BDL		0.015								
MTBE	BDL	BDL	BDL	BDL		0.005								
Naphthalene	BDL	BDL	BDL	BDL		0.025								

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as ppm of analyte

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kin Ducty

Kevin Doriety Analytical Chemist

		n
the sample collector(s) accurately noted	NO	NO YES
ch the COC on the report?	NO	NO YES
order ID (PO) and project ID accurately ?	NO	NO YES
and method references correct on report	? NO YAS	NO YES
s) and the Lab lD(s) correspond to the	NO	NO YES
natted correctly?	NO	NO YES
ng information on report correspond to a ation from the analytical instrumentation	the n:	
Sample Matrix	NO	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	NO	NO YES
Units	NO XES	NO YES
Dilution Factors/Conversions	NO	NO YES
Detection/Reporting/Quant. Limits	NO	NO YES
QC Reviewed:	YES	YES
Initial*:	Mox	<u>(45</u>
* MJH = Michael Heard, KD = Ke	evin Doriety, MSH = Matt Hagem	nan, KH = Kelly Hester
und, Humter,	40228	
ANCTEMS Invoic	ce #0720	
	the sample collector(s) accurately noted ch the COC on the report? order ID (PO) and project ID accurately ? and method references correct on report (s) and the Lab ID(s) correspond to the natted correctly? ing information on report correspond to ation from the analytical instrumentation Sample Matrix Analyst Analyst Analyst Date/Time Analyte concentration Units Dilution Factors/Conversions Detection/Reporting/Quant. Limits QC Reviewed: Initial*: * MJH = Michael Heard, KD = Ke	the sample collector(s) accurately noted NO YS ch the COC on the report? NO YS order ID (PO) and project ID accurately NO YS and method references correct on report? NO YS (s) and the Lab ID(s) correspond to the NO YS natted correctly? NO YS ing information on report correspond to the ation from the analytical instrumentation: Sample Matrix NO YS Analyst NO YS Analyst NO YS Analyst Date/Time NO YS Analyst DATE/Time NO YS Dilution Factors/Conversions NO YS Detection/Reporting/Quant. Limits NO YS QC Reviewed: YS Initial*: * MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hagerr

Sample Check-in Form	l
Date Received: 1/7/19 Invoice #	40328
Method of Delivery: hand Client:	Sphere 3
1. Did any containers arrive broken?	YES NO
* If so, please state field ID with analysis of broken sample(s)	
2. Were cooler(s) sealed upon arrival?	YES NO NA
3. Were the samples received at the proper teamperature ( $4^{\circ}C$ +/- $2^{\circ}C$ )?	YES NO NA
4. Did a chain of custody accompany the samples?	YES NO
* Was it properly filled out?	TES NO
5. Were correct containers used for the analysis requested?	YES NO
6. Were all containers properly preserved?	YES NO NA
7. Were all water samples received at the proper pH?	YES NO NA
8. If VOA vials were present, was there any head space?	YES NO NA
* If so, please state field ID of deficient sample(s):	· · · · · · · · · · · · · · · · · · ·
9. Were all containers properly labeled and match chain of custody?	YES NO
10. Did containers arrive within holding time of analysis?	YES NO
* If not, please state field ID and analysis of sample(s) out of holding time	¥ .:
11. Was client informed of any/all deficiencies in sample check-in?	YES NO NA
12. Were any samples rejected?	YES NO
* If so, please state field ID of rejected sample(s):	
Sample Custodian (signed):	)



COMPANY, INC.	Birmir	igham, AL 3	5233			Fax:	20	5 58 <sup>-</sup>	1 9	504													E	N	GΙ	NE	ΞE	RI	N G	i, I N	1C
Consultant Name:	SPHERE 3 Engineeri	na. Inc.													1	Pag	e #	Pa	ae 1	lof	1										
Address:	3433 Sierra Drive	0,				_		_			_				nvo	ice	To	SE	PHF!	RE :	R En	nain	eerii		Inc						
City/State/Zip:	Hoover Alabama 35	216	_								_				Ror		To	<u> </u>	Hoa			Hu	nteri	<u>ю</u> к	are	toni	lime	allori	aina	í –	
Client	Krish-Sai LLC	210		_		_									De				200	2 02	10/0.		men	<u>0.</u>	aisi	.cria	3/112	III OII	gina		_
Consultant Project Mar:	Greg Hoagland					-			-		-		116-	T In	cide	n+			211	5.05 : 08	03					_				_	
Consultant Telephone Number:	(205) 403 3317		Fay		(20	5) 40	3 33	310					03	- III E/		511L   16.1	п	00		SF1	-03	bal				_				_	_
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Sampler Signature:		Joet-			-							<b>C</b>		Col			-55	. <u>19</u>	407		<u> </u>	nee	<u>1</u>	4	A 1 - 1				_		
Sampler Signature.	$- \overline{\diamond}$	Lanni	40	-			_	_	_		_		ty,	COL	inty	, 51	ate	<u></u>	min,	Cie	pur:	ne c	Jour	ity, i	Alar	am	a			-	
	1 1	r	_		Pres	serva	tive		┡		Mati	rix		┢	r	r		Ana	ilyze	+ Fo	r:				Ł						_
Sample ID or Field ID           SB10         15/201417           SB10         20/201418	7021 61 21 Time Sampled	X X Grab	Composite Field Filtered	Methanol Sodium Bisulfale	HCI (Blue Label)	HaOH ( Orange Label) H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)	X X None (Black Label)	Groundwater	Wastewater	Drinking Water	X X Soil	Other (specify): WATER	× × BTEX/MTBE 8260B	X X NAPHTHALENE 8260B	TEMPERATURE									RUSH TAT (Pre-Schedule)	ZZTAT request (in Bus. Days)	<		Due Date of Report		
SB11 15/201419	1-1-110 1000			$\vdash$	$\uparrow \uparrow$	1-	<del>   </del>			$\square$				$\overline{\mathbf{v}}$		┢	┉	+	⊢	⊢	$\vdash$	+	╈	⊢	╀╌	N	i.t				$\neg$
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Comments/Special Instructions:																La	bor Te Sa VC	ator mpe mpl )Cs	y Co Fratu e Co Free	omn ire l onta e of	nen Jpor iner Hea	ts: n Re s In adsr	eceir itactí	ot: ? ?	AL VY	A	Ň				
Relinquished by:	1   7   9	Time R. 7:37	Ceived t	y:	20	n	1	1.7	)	1	Date 7/	19	Z	Tim	e 35	QC Le\ Le\	: <u>De</u> /el 2 /el 3	liver 2	able	s (pl	eas	e cir	rcle c	<u>)ne)</u>							
Relinquished by:	Date	Time Re	eceived b	by:		0					Date	e		Tim	e	Le\ Site Pro	vel 4 e Sp iject	ecifi Mai	c - if nage	yes yes	, ple atta	ease	e pre	-sch ifc ir	iedu nstri	le w uctic	// SL ons	JTHE	RLA	ND	

Phone: 205 581 9500

2515 5th Avenue South

SUTHERLAND ENVIRONMENTAL

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 10, 2019	
Attention:	Мг. Greg	, Hoagland	Reference #	40327	
Address:	3433 Sie	rra Drive	P.O. #	KSSSS.03	
Hoover, A		AL 35216	Project ID:	Stop n Shop Shell	
Sample Ma	trix:	soil	Analytical		
Date Recei	ved:	1/7/19	Analyst:	M. Hageman	
Date Colle	cted:	1/7/19	Date of Analysis:	1/10/19	
Sample Co	llector:	G. Karstens	Method:	EPA Method 6010B	

	METALLIC ANALYTES													
	FIELD ID													
	SOIL													
	COMP-1													
Analyte, mg/Kg	LAB ID						Detection							
as Total	201416						Limit, mg/Kg							
Lead	3.3						1.0							

BDL = Below Detection Limit Detection Limit is Reporting Limit All results expressed as PPM of total analyte

X /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Dout

Kevin Doriety Analytical Chemist

1. Is the client and the sample collector(s) accurately noted on report?	NOYES	NO YPS
2. Do all dates match the COC on the report?	NO	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO	NO YES
4. Are all methods and method references correct on report	? NO ÝZS	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO YXS,	NO YES
6. Is the report formatted correctly?	NO YEX	NO YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation	he :	1
Sample Matrix	NOY	NO YES
Analyst	NO YES	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	NO XES	NO YES
Units	NO DES	NO YES
Dilution Factors/Conversions	NO YES	NO YES
Detection/Reporting/Quant. Limits	NO	NO YES
QC Reviewed:	XXS	1 DI YES
Initial*:	MH	MAN
Muri = Michael Heard, KD = Ke	viii Donety, wort = Matt Hagemai	$\mathbf{R}_{\mathbf{R}} = \mathbf{R}_{\mathbf{R}}$ in y mester
PDF: HUUYIMIA, HWITHY, KANSTENS Invoic	<sub>e#</sub> 40327	
Notes:	Sutherland Environmental	Co., Inc.

Samul	heck-	in	Form
Samp	песк-		FOLU

Date Received: 117119 In	voice #	40	327	_
Method of Delivery: Mana Cl	ient:	S.	Pere	3
1. Did any containers arrive broken?		YES	No	
* If so, please state field ID with analysis of broken sample(s) _				
2. Were cooler(s) sealed upon arrival?		YES	NO	NA
3. Were the samples received at the proper teamperature (4 $^{\circ}C$ +/- 2	<sup>2°</sup> C)?	YES	NO	NA
4. Did a chain of custody accompany the samples?		YES	NO	
* Was it properly filled out?		YES	NO	
5. Were correct containers used for the analysis requested?		YES	NO	
6. Were all containers properly preserved?		YES	NO	NA
7. Were all water samples received at the proper pH?		YES	NO	NA
8. If VOA vials were present, was there any head space?		YES	NO	NA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of custody	/?	YES	NO	
10. Did containers arrive within holding time of analysis?		YES	NO	
* If not, please state field ID and analysis of sample(s) out of he	olding time: _			
	с Г	NEO		
11. Was client informed of any/all deficiencies in sample check-in	۲	YES		
12. Were any samples rejected?	·····L	YES	NO	
I so, please state ficio ID ot rejected sample(s):				
Sample Custodian (signed):	per	)		
	)			



COMPANY, INC.		Birmin	ghan	n, AL	. 352	33			F	ax:	20	5 5	81 9	95(	04												ΕN	G١	Ν	ΕE	RI	NG,	INC
Consultant Name:	SPHERE 3 Er	ngineerin	ng, Inc	<b>.</b>																Pa	ge #:	Pa	ge 1	of 1									
Address:	3433 Sierra D	rive																	ín	voic	e To:	SP	HER	E 3	Engi	in <b>e</b> er	ing, I	nc.					
City/State/Zip:	Hoover, Alaba	ama 352	216																R	ероі	t To:	gre	:g@:	sphe	ere3.	.com	i; jon	@s	phe	re3.	com, I	mail c	riginal
Client:	Krish-Sai, LLC	2				_										chir 			1	Proje	ect #:	KS	SSS	.03									
Consultant Project Mgr:	Greg Hoaglan	d										_					ι	JST	Inci	dent	No.:	US	T15	-08-	03					_			
Consultant Telephone Number:	(205) 403.331	7				Fa	хN	o.: (	205	) 40	3.3	318							Fac	ility	ID #:	Sto	op n	Sho	p Sh	nell							
Sampler Name: (Print)	K	NRS	1500	ð	2		-			-				_		_			Site	Add	ress	194	45 A	Imor	n Str	reet							
Sampler Signature:		X	In	mal		~	-		5	•	_					_	Cit	tv. (	Coun	tv. S	tate	He	flin.	Cleb	ourne	e Co	unty	Ala	abar	ma		_	
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	ale Sampled	ime Sampled	o. of Containers Shipped	rab	omposite	ield Filtered	ethanol	odium Bisulfate	CI (Blue Label) aOH / Orange Label)	SO4 Plastic (Yellow Label)	SO4 Glass(Yetlow Label)	VO <sub>3</sub> (Red Label)	one (Black Label)	oundwater	astewater Inking Water	udae	oil	her (specify): WATER	TAL LEAD 6010	MPERATURE								alubadag ang tyu a	T reditect (in Bus, Davs	DF Results (yes or no)		e Date of Report	
Sample ID or Field ID		F	ž	Ū	Ŭ	i.	ž	ŝ	Чź	Ť	τ <sup>ζ</sup>	1	ź	5	Š [2	5 15	S	ð										ō	2  <b></b> ≩			ñ	
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Comments/Special Instructions:	I		J]	L	1	L								_1.	- <u>-</u> L	-	1			E	abor Te Sa	mpe mple	y Co ratur e Co Free	re U ntair	pon ners	s: Rec Inta	eipt: ct?	1 N U N	1	) N N			
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Phone: 205 581 9500

2515 5th Avenue South

SUTHERLAND ENVIRONMENTAL



Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	November 11, 2015	
Attention:	Mr. Greg	g Hoagland	Reference #	33965	
Address:	3433 Sie	rra Drive	P.O. #	KSSSS.01	
	Hoover,	AL 35216	Project ID:	Stop and Shop Shell	
Sample Ma	trix:	water	Analytical		
Date Receiv	ved:	11/6/15	Analyst:	Hageman/Heard	
Date Collec	ted:	11/4/15	Date of Analysis:	11/9-10/15	
Sample Col	lector:	Tres Bond	Method:	EPA Method 8260B	

<b>VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE</b>											
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID						
	MW-1	MW-2	MW-3	<u>M</u> W-4	DUP-1						
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID		Detection				
Organic, mg/L	167624	167625	167626	167627	167628		Limit, ppm				
Benzene	0.892	0.631	0.002	BDL	0.002		0.001				
Toluene	0.004	0.046	BDL	BDL	BDL		0.001				
Ethylbenzene	0.002	0.018	BDL	BDL	BDL		0.001				
Xylenes, o,m,p	0.184	0.413	0.005	BDL	0.006		0.003				
MTBE	0.830	0.190	0.001	0.012	0.001		0.001				
Naphthalene	0.053	BDL	BDL	BDL	BDL		0.005				

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

/QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non D

Kevin Doriety Analytical Chemist

1. Is the client and the sample collector(s) accurately noted	NO	NO YES
2. Do all dates match the COC on the report?	NO	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO	NO YES
4. Are all methods and method references correct on report	? NO YES	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO	NO YES
6. Is the report formatted correctly?	NO	NO YES
<ol> <li>Does the following information on report correspond to printout information from the analytical instrumentation</li> </ol>	the 1:	
Sample Matrix	NO	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	NO	NO YES
Units	NO	NO YES
Dilution Factors/Conversions	NO	NO YES
Detection/Reporting/Quant. Limits	NO	NO YES
QC Reviewed:	YES	YES
Initial:	my	_KD
PDF: <u>G HUAGLAND</u>	ce # 33905	
Notes:	Sutherland Environmente	el Co., Inc.

Sample Check-in Form	
Date Received: 11615 Invoice #	<u>339/Les</u>
Method of Delivery: 1000 Client:	Sphere 3
1. Did any containers arrive broken?[	YES NO
* If so, please state field ID with analysis of broken sample(s)	
2. Were cooler(s) sealed upon arrival?	YES NO NA
3. Were the samples received at the proper teamperature ( $4^{\circ}C$ +/- $2^{\circ}C$ )?	VES NO NA
4. Did a chain of custody accompany the samples?	VES NO
* Was it properly filled out?	YES NO
5. Were correct containers used for the analysis requested?	(ES) NO
6. Were all containers properly preserved?	YES NO NA
7. Were all water samples received at the proper pH?	(YES) NO NA
8. If VOA vials were present, was there any head space?	YES NO NA
* If so, please state field ID of deficient sample(s):	
9. Were all containers properly labeled and match chain of custody?	YES NO
10. Did containers arrive within holding time of analysis?	YES NO
* If not, please state field ID and analysis of sample(s) out of holding time:	
11 Was client informed of any/all deficiencies in sample check-in?	
12. Were any samples rejected?	YES RO
* If so, please state field ID of rejectedssample(s):	
Sample Custodian (signed):	

SUTHERLAND ENVIRONME TESTING LABORATORY	NTAL	2515 50 Birmin	th Ave gahrr	enue 1, AL	Sout 3523	th 33			Pho F	ne: ax:	: 20 : 20	)5 5) )5 5)	81 : 81 :	950 950	0 4			×						SĮ	)he	re	36	7 Ngir	53 188	9( ri	, NJ,	) İm	) ).	
Consultant Name:	SPHERE 3 Er	ngineerin	g, Inc.													_			Pag	e #:	Page	<u>e</u> 1 c	of 1			_								
Address:	3433 Sierra D	rive					_										I	nvo	oice	To:	SPH	ERE	3 E	Ingir	neeri	n <u>g, I</u> r	nc.							
City/State/Zip:	Hoover, AL 3	5216									_		_			_		Re	port	To:	Gre	g Ho	agla	and		_								
Client:	Krish-Sai, LLC	2														_		Pr	ojec	:t #:	KSS	SS.	01										_	
Consultant Project Mgr:	Greg Ho <mark>agl</mark> an	nd									_						F	aci	lity	D #	Stop	and	d Sł	iop (	Shel									
Consultant Telephone Number:	205 403 3317					Fa	x No	5.; <u>2</u>	205 -	403	331	18					Si	te A	\ddr	ess	194	5 Alı	non	Stre	eet a	and H	łwy.	9						_
Sampler Name: (Print)	Tres Bond		1						_								City	, St	ate,	Zip	Hefi	in, A	laba	ama										
Sampler Signature:	$\sim$	12												Re	gul	ato	ry D	istr	ict (	CA)	Alat	ama	a											
			ſ					F	res	erva	ative	;	Т		Ν	Aatr	ix				_	F	Anal	vze	For:				٦					
Sample ID or Field ID MW-1 UTU24 MW-2 UTU25 MW-3 UTU226	Date Compose Date Date Date Date Date Date Date Dat	Demogram due of the second se	ω ω ω No. of Containers Shipped	× × × Grab	Composite	Field Filtered	Methanol	Sodium Bisulfale	X X X HCI (Blue Label)	H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	H2SO4 Glass(Yellow Label)	HNO <sub>3</sub> (Red Label)	X X None (Black Label)	X X Sroundwater	Wastewater	Drinking Water	Soil	Other (specify). WATER	X X X BTEX/MTBE 8260B	X X X NAPHTHALENE 8260B	TEMPERATURE								RUSH TAT (Pre-Schedule)	ZZZZTAT request (in Bus. Days)			Due Date of Report	
MW-4 1127	11/04/15	16:46	3	X					хI				Х	Х					Х	X									T	N	Y			
DUP-1 11071028	11/04/15	—	3	x					x	1-			х	x	+	╈	+		X	X						$\neg$	-			N	$\mathbf{v}$		-	
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Comments/Special Instructions:				_															_		Lab	orat Tem Sam VOC	ory pera ple Ss F	Cor ature Cor ree	nme e Up ntain of H	ents: oon R ers li eads	lece ntac	ipt: c t? e?	300	3℃ )	N N N			
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Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	May 3, 2016	
Attention:	on: Mr. Greg Hoagland		Reference #	34983	
Address:	3433 Sie	rra Drive	P.O. #	KSSSS.02	
	Hoover,	AL 35216	Project ID:	Stop and Shop Shell	
					_
Sample Ma	atrix:	water	Analytical		
Date Recei	ved:	4/28/16	Analyst:	Hageman/Heard	
Date Colle	cted:	4/27/16	Date of Analysis:	4/30/16-5/2/16	
Sample Co	llector:	TB/JJ	Method:	EPA Method 8260B	

VOLAT	ILE OR	GANICS	- BTEX	MTBE/	APHTH	IALENE	5
	FIELD ID MW-1	FIELD ID MW-2	FIELD ID MW-3	FIELD ID MW-4	FIELD ID MW-5	FIELD ID MW-6	
Volatile	LAB ID	Detection					
Organic, mg/L	172615	172616	172617	172618	172619	172620	Limit, ppm
Benzene	0.625	3.140	BDL	0.006	0.007	0.001	0.001
Toluene	0.007	0.057	BDL	0.004	0,004	0.001	0.001
Ethylbenzene	0.005	0.164	BDI.	BDI.	BDI.	BD1.	0.001
Xylenes, o,m,p	0.121	3.230	BDL.	0.011	0.008	0.003	0.003
MTBE	0.463	4.540	BDL	0.012	0.005	BDL	0.001
Naphthalene	0.018	0.091	BDL	BDL.	BDI,	BDL	0.005
				1996			
	FIELD ID						
	MW-7	MW-8	MW-9	MW-DW1	DUP-1		
Volatile	LAB ID		Detection				
Organic, mg/L	172621	172622	172623	172624	172625		Limit, ppm
Benzene	3.120	BDL	0.045	0.018	0.043		0.001
Toluene	2.550	BDL.	0.022	0.004	0.021		0.001
Ethylbenzene	0.590	BDI.	0.005	0.001	0.004		0.001
Xylenes, o,m,p	4.580	BDL	0.033	0.016	0.030		0.003
MTBE	2.700	BDL	0.006	0.023	0.005		0.001
Naphthalene	0.409	BDL	BDI.	BDI,	8DL		0.005

Result is above method detection limit and below reporting limit BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

Respectfully submitted,

Noi Dong

Kevin Doriety Analytical Chemist

EPA Laboratory ID AL01084

V /QAQC

1. Is the client and the sample collector(s) accurately noted on report?	NO	NO YES
2. Do all dates match the COC on the report?	NO	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO	NO YES
4. Are all methods and method references correct on report	? NO 🔀	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO	NO YES
6. Is the report formatted correctly?	NO	NO YES
7. Does the following information on report correspond to t printout information from the analytical instrumentation	he :	
Sample Matrix	NO	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	NO	NO YES
Units	NO	NO YES
Dilution Factors/Conversions	NO	NO YES
Detection/Reporting/Quant. Limits	NO YES	NO YES
QC Reviewed:	YES	YES
Initial*:	Matt Hageman	Ku = Kelly Herter
The GHUAALUAAD		, KI) - Kelly Hostel
	e#349 <b>8</b> 3	·
Notes:	Sutherland Environmental	Co., Inc.

Sample Check	<u>t-in Form</u>		_	
Date Received: 428116	Invoice #	34	983	
Method of Delivery: <u>Mane</u>	Client:	Spł	vere?	3_
1. Did any containers arrive broken?	[	YES	ŊO	
* If so, please state field ID with analysis of broken sample	(s)			
2. Were cooler(s) sealed upon arrival?	[	YES	NO	NA
3. Were the samples received at the proper teamperature $(4^{\circ}C$	+/- 2ºC)? [	YES	NO	NA
4. Did a chain of custody accompany the samples?	[	YES	NO	
* Was it properly filled out?	[	YES_	NO	
5. Were correct containers used for the analysis requested?	[	YES	NO	
6. Were all containers properly preserved?	[	YES	NO	NA
7. Were all water samples received at the proper pH?	[	YES	NO	NA
8. If VOA vials were present, was there any head space?	[	YES	NØ	NA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of cus	stody?	Y\$	NO	
10. Did containers arrive within holding time of analysis?	[	yes	NO	
* If not, please state field ID and analysis of sample(s) out	of holding time:			
11. Was client informed of any/all deficiencies in sample chec	k-in?	YES	NO	NA
12. Were any samples rejected?		YES	ŊO	
* If so, please state field ID of rejected sample(s):				
Sample Custodian (signed):				

SUTHERLAND ENVIRONMENTAL 2515 5th Avenue South Phone: 205 581 9500 sphere 3 engineering, inc. **TESTING LABORATORY** Birmingahm, AL 35233 Fax: 205 581 9504 Consultant Name: SPHERE 3 Engineering, Inc. Page #: Page 1 of 2 Address: 3433 Sierra Drive Invoice To: SPHERE 3 Engineering, Inc. City/State/Zip: Hoover, AL 35216 Report To: Greg Hoagland Client: Krish-Sai, LLC Project #: KSSSS.02 Consultant Project Mgr: Greg Hoagland Facility ID # Stop and Shop Shell Consultant Telephone Number: 205 403 3317 Fax No.: 205 403 3318 Site Address 1945 Almon Street and Hwy, 9 Sampler Name: (Print) Tres, Bond, Jimmy Johnson City, State, Zip Heflin, Alabama Sampler Signature: Regulatory District (CA) Alabama Preservative Matrix Analyze For: Shipped RUSH TAT (Pre-Schedule NAPHTHALENE 8260B Day Label) 0 u H<sub>2</sub>SO<sub>4</sub> Glass(Yellow Label) WATER 8260B P request (in Bus. Label) H<sub>2</sub>SO<sub>4</sub> Plastic (Yellow of Report (yes Containers TEMPERATURE Date Sampled Time Sampled (Black Label HNO<sub>3</sub> (Red Label) Bisulfate HCI (Blue Label) NaOH ( Orange Other (specify): **BTEX/MTBE** Field Filtered Results Drinking Water Composite Groundwate Wastewater Date ( Methanol Sodium I ď Sludge Grab None Ъ Š TAT Soil Due Sample ID or Field ID MW-1 04/27/16 10:41 3 Х Х Х Х NY MW-2 3 Х Х 04/27/16 12:50 X Х NY MW-3 04/27/16 3 Х Х х 14:58 Х NIY MW-4 3 Х Х Х 04/27/16 14:15 х Х Х NY 3 Х Х **MW-5** 04/27/16 15:42 Х Х Х Х NY MW-6 04/27/16 16:19 3 Х Х Х Х Х NY MW-7 04/27/16 13:38 3 Х Х Х Х NY MW-8 3 Х 04/27/16 12:02 Х Х Х Х NY **MW-9** 3 Х Х 04/27/16 Х Х 11:17 NY 3 Х Х Х MW-DW1 04/27/16 10:22 NY Comments/Special Instructions: Laboratory Comments: 06 Temperature Upon Receipt: Sample Containers Intact? N VOCs Free of Headspace? ilY N Relinguished by: Date Received by: Date QC Deliverables (please circle one) Time Time Level 2 33 23 Level 3 Date Relinguished by: Time Received by: Date Time Level 4 Site Specific - if yes, please pre-schedule w/SUTHERLAND Project Manager or attach specifc instructions

34
SUTHERLAND ENVIRONMENTAL 2515 5th Avenue South Phone: 205 581 9500 sphere 3 engineering, inc. **TESTING LABORATORY** Fax: 205 581 9504 Birmingahm, AL 35233 Consultant Name: SPHERE 3 Engineering, Inc. Page #: Page 2 of 2 Invoice To: SPHERE 3 Engineering, Inc. Address: 3433 Sierra Drive Report To: Greg Hoagland City/State/Zip: Hoover, AL 35216 Client: Krish-Sai, LLC Project #: KSSSS.02 Consultant Project Mgr: Greg Hoagland Facility ID # Stop and Shop Shell Fax No.: 205 403 3318 Site Address 1945 Almon Street and Hwy. 9 Consultant Telephone Number: 205 403 3317 City, State, Zip Heflin, Alabama Sampler Name: (Print) Tres Bond, Jimmy Johnson Regulatory District (CA) Alabama Sampler Signature: Preservative Matrix Analyze For: (Pre-Schedule Day Shipped NAPHTHALENE 8260B Results (yes or no) H<sub>2</sub>SO<sub>4</sub> Plastic (Yellow Label H<sub>2</sub>SO<sub>4</sub> Glass(Yellow Label) ER BTEX/MTBE 8260B Bus. NaOH ( Orange Label) Due Date of Report Containers **TEMPERATURE** None (Black Label) Time Sampled request (in HNO<sub>3</sub> (Red Label) Date Sampled Sodium Bisulfate HCI (Blue Label) Field Filtered Other (specify): Drinking Water RUSH TAT Groundwater Composite Wastewater Methanol of ( Słudge Grab PDF AT Ň Soil Sample ID or Field ID 1225 Х DUP-1 04/27/16 3 Х Х Х Х Ν Y х N Y 1 TEMPERATURE BLANK Laboratory Comments Comments/Special Instructions: ő Temperature Upon Receipt: Sample Containers Intact? Y Ν 80 VOCs Free of Headspace? N Relinguished by: Date Received by: Date Time QC Deliverables (please circle one) Time Level 2 53 25/16 4/2 3 Level 3 Received by: Date Time Relinguished by: Dáte Time Level 4 Site Specific - if yes, please pre-schedule w/SUTHERLAND Project Manager or attach specifc instructions

34983

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3 E	Engineering, Inc.	Report Date:	January 25, 2019	
Attention:	Mr. Greg I	Hoagland	Reference #	40385	
Address:	3433 Siert	a Drive	P.O. #	KSSSS.03	
	Hoover, A	L 35216	Project ID:	Stop n Shop Shell	
Sample Ma	itrix:	water	Analytical		
Date Receiv	ved:	1/18/19	Analyst:	Hageman/Heard	
Date Collec	cted:	1/17/19	Date of Analysis:	1/23-24/19	
Sample Col	llector:	J. Johnson	Method:	EPA Method 8260B	

VOLATI	LE ORG	GANICS	- BTEX/	MTBE/N	NAPHTH	IALENE	C
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-I	MW-2	MW-3	MW-4	MW-5	<u>MW-6</u>	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, mg/L	201782	201783	201784	201785	201786	201787	Limit, ppm
Benzene	1.240	0.620	BDL	BDL	BDL	BDL	0.001
Toluene	0.017	0.021	BDL	BDL	BDL	BDL	0.001
Ethylbenzene	0.018	0.004	BDL	BDL	BDL	BDL	0.001
Xylenes, o,m,p	0.061	0.150	BDL	BDL	BDL	BDL	0.003
MTBE	2.550	0.479	BDL	0.009	BDL	BDL	0.001
Naphthalene	0.102	BDL	BDL	BDL	BDL	BDL	0.005
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	<b>MW-7</b>	MW-8	MW-9	MW-10	MW-11	MW-DW1	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, mg/L	201788	201789	201790	201791	201792	201793	Limit, ppm
Benzene	2.670	BDL	0.021	0.008	0.009	0.003	0.001
Toluene	0.058	BDL	0.005	0.108	BDL	BDL	0.001
Ethylbenzene	0.162	BDL	0.002	0.410	BDL	BDL	0.001
Xylenes, o,m,p	0.885	BDL	0.016	2.910	BDL	BDL	0.003
MTBE	3.720	BDL	0.005	BDL	0.044	0.007	0.001
Naphthalene	0.037	BDL	BDL	0.153	BDL	BDL	0.005

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

All results expressed as ppm (mg/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	3 Engineering, Inc.	Report Date:	January 25, 2019	
Attention:	Mr. Gre	g Hoagland	Reference #	40385	
Address:	3433 Sie	erra Drive	P.O. #	KSSSS.03	
	Hoover,	AL 35216	Project ID:	Stop n Shop Shell	
Sample Ma	trix:	water	Analytical		
Date Receiv	ved:	1/18/19	Analyst:	Hageman/Heard	
Date Collec	eted:	1/17/19	Date of Analysis:	1/24/19	
Sample Col	lector:	J. Johnson	Method:	EPA Method 8260B	

<b>VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE</b>										
	FIELD ID									
	DUP-1									
Volatile	LAB ID						Detection			
Organic, mg/L	201794						Limit, ppm			
Benzene	BDL						0.001			
Toluene	BDL						0.001			
Ethylbenzene	BDL						0.001			
Xylenes, o,m,p	BDL						0.003			
MTBE	BDL						0.001			
Naphthalene	BDL						0.005			

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Nai Dough

Kevin Doriety Analytical Chemist

<ol> <li>Is the client and the sample collector(s) accurately note on report?</li> </ol>	d NO YDS	NO YES
2. Do all dates match the COC on the report?	NO	NO XES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO YX	NO MES
4. Are all methods and method references correct on report	rt? NO YKS	NO YĘS
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO	
6. Is the report formatted correctly?	NO	NO YES
7. Does the following information on report correspond to printout information from the analytical instrumentation	o the on:	
Sample Matrix	NO	NO XES
Analyst	NO	NO XES
Analysis Date/Time	NO	NO YES
Analyte concentration	NO	NO NES
Units	NO	NO
Dilution Factors/Conversions	NO	NO
Detection/Reporting/Quant. Limits	NO	NO YÈS
QC Reviewed:	288	YES
Initial*:		
Tiller algue de literation	Com Dollety, MSH = Matt Hagem	an, kn ~ keny nester
PDF: HOUGIAMA, HUMLEK	ice #40385	ķ
Notes:	Sutherland Environmenta	I Co., Inc.

## Sutherland Environmental Company Inc.

S	ample	Check-in	Form
_			

Date Received: 11819 Invoice #	40385
Method of Delivery: hand Client:	Sphere 3
I. Did any containers arrive broken?	YES NO
* If so, please state field ID with analysis of broken sample(s)	
2. Were cooler(s) sealed upon arrival?	YES NO NA
3. Were the samples received at the proper (camperature $(4^{\circ}C + - 2^{\circ}C)$ ?	YES NO NA
4. Did a chain of custody accompany the samples?	YES NO
* Was it properly filled out?	YES NO
5. Were correct containers used for the analysis requested?	YES NO
6. Were all containers properly preserved?	MES NO NA
7. Were all water samples received at the proper pH?	YES NO NA
8. If VOA vials were present, was there any head space?	YES NØ NA
* If so, pleasc state field ID of deficient sample(s):	<i>!</i>
9. Were all containers properly labeled and match chain of custody?	YES NO
10. Did eontainers arrive within holding time of analysis?	YES NO
* If not, please state field ID and analysis of sample(s) out of holding time:	
1. Was client informed of any/all deficiencies in sample check-in?	YES NO NA
12. Were any samples rejected?	YES NO
* If so, please state field ID of rejected sample(s):	
Sample Custodian (signed):	

																													(	4	0	39	65	>
SUTHERLAND ENVIRONMEN	TAL	2515 5t	h Av	enue	Sou	th			Pho	one:	20	05 5	81	950	0												S	P	╞	IE	R			5
COMPANY, INC.		Birming	gham	, <b>A</b> L	352	33			F	Fax:	20	05 5	81	950	)4												EN	۱G	IN	EΕ	RI	NG	, IN	С
Consultant Name:	SPHERE 3 Eng	gineerin	g, Inc.													_				F	age #	#: <u>P</u>	age	1 of	2				_				_	
Address: City/State/Zip:	Hoover Alabar	na 352	16						_	_						-				nvo Ren	ort To	): <u>S</u>	PHE	RE	3 Er	Hun	ering	j, Ind Kai	C.	ne lenr	all or	ainai		
Client;	Krish-Sai, LLC	112 002	10						-		-					-				Pro	one re oiect ≰	/: ≝ #: K	SSS	S.0	3			Intal	ater	13/11/1	air on	ymai	_	—
Consultant Project Mgr:	Greg Hoagland																ι	JST	Inc	ide	nt No	.: U	ST1	5-08	8-03									
Consultant Telephone Number:	(205) 403.3317	7				Fax	x No	o.: (	(205	5) 40	3.3	3318				-			Fa	cili	y ID #	#: S	top	n Sh	op S	Shell				_				
Sampler Name: (Print)	Jimmy Johnson	n	1	_							_	_		_	_	-			Site	e Ac	dress	s: 1	945	Almo	on S	Streel	t	_			_			
Sampler Signature:	47	91k					_		_								Ci	ty, (	Cou	inty	State	≥: <u>H</u>	eflin	, Cle	ebur	ne C	ounty	7, Al:	aba	ma				
								۹ T	Pres	erva	ative T	е Т-Т	4	_	_ M	latrix	×	-				Ar	nalyz	e Fo	or:	-		-				_	_	
Sample ID or Field ID         MW-1       201782         MW-2       201782         MW-3       201784         MW-4       201786         MW-5       201786         MW-6       201785         MW-7       201785         MW-8       201789         MW-9       201790	01/17/19 01/17/19 01/17/19 01/17/19 01/17/19 01/17/19 01/17/19 01/17/19 01/17/19 01/17/19	Padues au 13:39 15:07 10:17 10:43 9:15 9:51 11:14 14:41 14:03	ε ε ε ε ε ε ε ε νο. of Containers Shipped	X X X X X X X Grab	Composite	Field Filtered	Melhanol	Sodium Bisulfate	X X X X X X X X X HCI (Blue Label)	Haddel ( Urange Laber) H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Laber)	H2SO4 Glass(Yellow Label)	HNO <sub>3</sub> (Red Label)	None (Black Label)	X X X X X X X X X Groundwater	Vvastewater	Sludge	Sol	Other (specify): WATER	$ \times $ BTEXIMTBE 8260B	$\times$   ×   ×   ×   ×   ×   ×   ×   ×   ×	TEMPERATURE								RUSH TAT (Pre-Schedule)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Due Date of Report		
MW-10 201791	01/17/19	11:57	3	Х					Х					X					Х	Х									Ν	1 Y		_		
Comments/Special Instructions:													_								Labo ⊤ S V	rato emp amp OCs	ory ( beral ble C s Fre	omi ure onta e of	men Upo ainer Hea	n <b>ts</b> : In Re rs Int adsp	ceipt: act? ace?	100	3.0	SoNZ				
Relinquished by	Date	10	Tin	пе	Rece	ived I	ру.			0					۵	Date			Tim	e		elive a	erabl	es (p	leas	se ciro	c <u>le on</u>	<u>1e)</u>						
Juny Oflan	1/1/1	17	18:	03	1		1	7	2	K				1	1/2	119	?	1	2:0	33	Level	3												
Relinquished by:	Date		Tin	ne	Reca	wed t	y:							1	10	Date			Tim	e	Level	4												
Im he	1/18/1	9	12.	40		U	Ĺ	1	0	a	Q	ch	J	1	15	81	9	12	27	10	Site S Projec	pec at Ma	ific - anag	if ye: er or	s, ple r atta	ease ach s	pre-s pecifo	icheo 2 insi	dule Iruct	w/ Sl ions	JTHE	RLA	ND	
											0																							



Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3 1	Engineering, Inc.	Report Date:	January 2, 2020	
Attention:	Mr. Greg	Hoagland	Reference #	42177	
Address:	3433 Sier	ra Drive	P.O. #	KSSSS.04	
	Hoover, A	L 35216	Project ID:	Stop n Shop Shell	
Sample Ma	trix:	water	Analytical		
Date Recei	ved:	12/31/19	Analyst:	Hageman/Heard	
Date Collec	eted:	12/30/19	Date of Analysis:	12/31/19-1/1/20	
Sample Co.	llector:	T. Bond/J. Johnson	Method:	EPA Method 8260B	_

VOLATI	LE ORO	GANICS	- BTEX	MTBE/I	NAPHTH	IALENE	C
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-1		MW-3	MW-4	<u>MW-5</u>	<u>MW-6</u>	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, mg/L	210707	210708	210709	210710	210711	210712	Limit, ppm
Benzene	0.884	0.335	0.002	BDL	BDL	BDL	0.001
Toluene	0.003	0.010	BDL	BDL	BDL	BDL	0.001
Ethylbenzene	0.003	0.003	BDL	BDL	BDL	BDL	0.001
Xylenes, o,m,p	0.045	0.070	BDL	BDL	BDL	BDL	0.003
MTBE	2.290	0.377	0.008	0.005	BDL	BDL	0.001
Naphthalene	0.054	BDL	BDL	BDL	BDL	BDL	0.005
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	F1ELD ID	FIELD ID	
	<b>MW-7</b>	MW-8	MW-9	<u>MW-10</u>	MW-11	MW-DW1	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, mg/L	210713	210714	210715	210716	210717	210718	Limit, ppm
Benzene	1.060	BDL	0.020	0.004	0.027	0.003	0.001
Toluene	0.007	BDL	0.004	0.102	BDL	BDL	0.001
Ethylbenzene	0.045	BDL	0.002	0.270	BDL	BDL	0.001
Xylenes, o,m,p	0.084	BDL	0.018	1.630	BDL	BDL	0.003
MTBE	3.680	BDL	0.003	0.002	0.200	0.004	0.001
Naphthalene	0.018	BDL	BDL	0.161	BDL	BDL	0.005

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

All results expressed as ppm (mg/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 2, 2020	
Attention:	Mr. Greg	g Hoagland	Reference #	42177	
Address:	3433 Sie	rra Drive	P.O. #	KSSSS.04	
	Hoover,	AL 35216	Project ID:	Stop n Shop Shell	
Sample Ma	itrix:	water	Analytical		
Date Recei	ved:	12/31/19	Analyst:	Hageman/Heard	
Date Collec	cted:	12/30/19	Date of Analysis:	1/1/20	
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8260B	

VOLATI	LE ORO	GANICS	- BTEX	/MTBE/	NAPHTI	HALENE	E
	FIELD ID						
	DUP-1						
Volatile	LAB ID						Detection
Organic, mg/L	210719						Limit, ppm
Benzene	BDL						0.001
Toluene	BDL						0.001
Ethylbenzene	BDL						0.001
Xylenes, o,m,p	BDL						0.003
MTBE	BDL						0.001
Naphthalene	BDL						0.005

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Nai Dorg

Kevin Doriety Analytical Chemist

1. Is the client and the sample collector(s) accurately noted on report?	NO	NO YES
2. Do all dates match the COC on the report?	NOYA	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO YES	NO YES
4. Are all methods and method references correct on report	? NO YPS	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO	NO YES
6. Is the report formatted correctly?	NO	NO YES
7. Does the following information on report correspond to t printout information from the analytical instrumentation	he :	
Sample Matrix	NO	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	- VES	THE YES
Units	NO	NO YES
Dilution Factors/Conversions	NO	NO YES
Detection/Reporting/Quant. Limits	NO	NO YES
QC Reviewed:	YES	YES
<i>Initial*:</i> * MJH = Michael Heard, KD = Ke	vin Doriety, MSH = Matt Hageman	n KH = Kelly Hester
ppp Word and I materic		
	e #	Со., Інс.

## Sutherland Environmental Company Inc.

Samp	le Check-in Form			
Date Received: 12 31 19	Invoice #	4	2/77	
Method of Delivery:	Client:	_Sp	here	3
1. Did any containers arrive broken?		YES	NO	
* If so, please state field ID with analysis of b	roken sample(s)			
2. Were cooler(s) sealed upon arrival?		YES /	NO	NA
3. Were the samples received at the proper teamp	erature $(4^{\circ}C + 2^{\circ}C)? \dots$	TES	NO	NA
4. Did a chain of custody accompany the samples	?	YES	NO	
* Was it properly filled out?		YES	NO	
5. Were correct containers used for the analysis re	equested?	YES	NO	
6. Were all containers properly preserved?		<b>V</b> ES	NO	NA
7. Were all water samples received at the proper	рН?	<b>V</b> ES	NO	NA
8. If VOA vials were present, was there any head	space?	YES	NO	NA
* If so, please state field ID of deficient sampl	e(s):			
9. Were all containers properly labeled and match	n chain of custody?	<b>V</b> ÉS	NO	
10. Did eontainers arrive within holding time of a	analysis?	YES	NO	
* If not, please state field ID and analysis of s	ample(s) out of holding time:			
11. Was client informed of any/all deficiencies in	sample check-in?	YES	NO	NA
12. Were any samples rejected?		YES	- <b>M</b>	
* If so, please state field ID of rejected sample	(s):			
Sample Custodian (signed):	1. Can			

																													4	21	7-	7		
SUTHERLAND ENVIRONMEN COMPANY, INC.	TAL	2515 5 Birmin	th Av ghan	enue n, AL	e Sou 352:	th 33			Ph	one Fax	: 2 :: 2	205 205	581 581	95 95	500 504												Ξ		GIN	IEE	RI		6, I I	<b>3</b> v c
Consultant Name: Address: City/State/Zip: Client: Consultant Project Mgr: Consultant Telephone Number:	SPHERE 3 Er 3433 Sierra D Hoover, Alaba Krish-Sai, LLC Greg Hoaglan (205) 403.331	ngineerir irive ama 352 C id 7	ng, Ind 216			Fa		D.:	(20	15) 4	03.		.8					បះ	ST Ir F	Inv Re P ncid	Page oice port rojec ent N lity IE	* #: To: To: t #: lo.:	Pag SPH G.H KSS UST Stop	e 1 ( IERI SS. 15-( n S	of 2 E 3 ( and, 04 08-0	2 Engi /J.Hi -3 - She	ineer unte	ring, r/ma	Inc. il orig	inal				
Sampler Name: (Print)	Tres Bond, Jir	mmy Joh	ason			-												<b>C</b> it. /	Si	te A	ddre	ss:	194: ปลย	5 Alr	non	Stre	eet	intr	Alab					
Campier Signatures	Yang	-				-		F	Pres	serv	ativ	ve	-	Г		Ma	trix	ony	, 00 T	um	y, 04	/		/ze l	For:		000	nity,		anna			-	_
	te Sampled	ne Sampled	of Containers Shipped	ą	mposite	ld Filtered	hanol	lium Bisulfate	(Blue Label)	DH ( Orange Label)	O4 Flasue (Tellow Label)	04 Glass(Tellow Label) 04 (Red Label)	le (Black Label)	undwater	stewaler	iking Water	lge	ANATTD	er (specify): WALER	PHTHAI ENE 8260B	APERATURE								SH TAT (Pre-Schedule)	F Results (yes or no)			Date of Keport	
Sample ID or Field ID	Da	Ë	Ž	ů.	Col	Fie	Met	Sod	Ĩ	N N N	2 1 1 2 1	22 NH	Non	ğ	Va;	Drin	Sluc	Soil			TEN								RUS	PDF		(	Due	
MW-1 210707	12/30/19	15:01	3	X					X	_				X					X		(					$\downarrow$		-		NY				
MW-2 210708	12/30/19	13:13	3	X					X	_				Х				_	X		<u></u>		$\square$			_	_			NY				
MW-3 210709	12/30/19	10:27	3	Х					Х					X					X		:		$ \downarrow$							NY				
MW-4 210710	12/30/19	10:46	3	Х					Х			_		X				$\downarrow$	×		:		$ \downarrow$	$\downarrow$			_			NY	_			
MW-5 210711	12/30/19	9:48	3	Х					X					X					X		:									NY			_	
MW-6 210712	12/30/19	9:30	3	Х					Х					X					X		(									NY				
MW-7 210713	12/30/19	11:19	3	X					Х					X					X											NY				
MW-8 210714	12/30/19	13:25	3	Х					Х					X					X		(						_			NY				
MW-9 210715	12/30/19	13:51	3	Х					Х					Х					X	$\langle \rangle$	,									NY				
MW-10 20716	12/30/19	12:24	3	Х					Х					X					X	$\langle \rangle$										NY				_
Comments/Special Instructions:																					Lat	Ten San VO	tory nper nple Cs F	Cor ature Cor ree	mme e Up ntain of H	ents oon f ers l ead:	;: Rece Intac spac	eipt: :t? :e?	3000	NN				
Relinquished by:	Date	13	Tir	me , 20	Recei	ved £	by:									Da	ate		Tir	ne	QC Lev Lev	<u>Deli</u> el 2 el 3	<u>/erai</u>	oles	(plea	<u>ase c</u>	circle	one)	1					
Relinquished by:	Date	0	Tir	me	Recei		y: M		(	er	r	Λ	-		1-	Da 2/	зte З		Tir 10:	ne 24	Lev Site Proj	el 4 Spe ect f	cific <u>A</u> ana	- if y Iger	es, p or at	oleas tach	se pre	e-sch cifc ir	nedule	: w/ S tions	UTHE	ERLA	ND	



Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3 E	ngineering, Inc.	Report Date:	March 6, 2020
Attention:	Mr. Greg H	loagland	Reference #	42553
Address:	3433 Sierra	a Drive	P.O. #	KSSSS.05
	Hoover, A	L 35216	Project ID:	Stop n Shop Shell
Sample Ma	trix:	water	Analytical	
Date Receiv	ved:	3/2/20	Analyst:	Hageman/Heard
Date Collec	eted:	2/28/20	Date of Analysis:	3/5/20
Sample Col	lector:	TB/JJ	Method:	EPA Method 8260B

<b>VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE</b>												
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID						
	MW-1	<u>MW-2</u>	<u>MW-3</u>	MW-4	MW-5	MW-6						
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection					
Organic, mg/L	212460	212461	212462	212463	212464	212465	Limit, ppm					
Benzene	0.580	0.323	BDL	BDL	BDL	BDL	0.001					
Toluene	0.014	0.007	BDL	BDL	BDL	BDL	0.001					
Ethylbenzene	0.017	0.002	BDL	BDL	BDL	0.002	0.001					
Xylenes, o,m,p	0.051	0.056	BDL	0.003	BDL	0.012	0.003					
MTBE	0.595	0.370	BDL	0.006	BDL	BDL	0.001					
Naphthalene	0.015	BDL	BDL	BDL	BDL	BDL	0.005					
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID						
	MW-7	MW-8	MW-9	MW-10	MW-11	MW-DW1						
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection					
Organic, mg/L	212466	212467	212468	212469	212470	212471	Limit, ppm					
Benzene	1.220	BDL	0.061	0.008	0.002	0.002	0.001					
Toluene	0.090	BDL	0.013	0.138	BDL	BDL	0.001					
Ethylbenzene	0.394	BDL	0.005	0.494	0.001	BDL	0.001					
Xylenes, o,m,p	1.960	BDL	0.033	2.330	0.006	BDL	0.003					
MTBE	2.820	BDL	0.007	BDL	0.005	0.003	0.001					
Naphthalene	0.065	BDL	BDL	0.108	BDL	BDL	0.005					

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

All results expressed as ppm (mg/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	March 6, 2020
Attention:	Mr. Greg	Hoagland	Reference #	42553
Address:	3433 Sier	ra Drive	P.O. #	KSSSS.05
	Hoover, A	L 35216	Project ID:	Stop n Shop Shell
Sample Ma	trix:	water	Analytical	
Date Receiv	ved:	3/2/20	Analyst:	Hageman/Heard
Date Collec	cted:	2/28/20	Date of Analysis:	3/5/20
Sample Col	llector:	TB/JJ	Method:	EPA Method 8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE												
	FIELD ID	FIELD ID										
	PRW-1	DUP-1										
Volatile	LAB ID	LAB ID					Detection					
Organic, mg/L	212472	212473					Limit, ppm					
Benzene	BDL	0.328					0.001					
Toluene	BDL	0.006					0.001					
Ethylbenzene	BDL	0.002					0.001					
Xylenes, o,m,p	BDL	0.052					0.003					
MTBE	BDL	0.382					0.001					
Naphthalene	BDL	BDL					0.005					

Result is above method detection limit and below reporting limit BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

MH /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Do

Kevin Doriety Analytical Chemist



## Sutherland Environmental Company Inc.

Sample Check-in For	rm			
Date Received: 32220 Invoice Method of Delivery: White Client:	e #	125	53 Vrei	3
		-F		
1. Did any containers arrive broken?		YES	NØ	
* If so, please state field ID with analysis of broken sample(s)			-	
2. Were cooler(s) sealed upon arrival?		YES	NO	NA
3. Were the samples received at the proper teamperature ( $4^{\circ}C$ +/- $2^{\circ}C$ )?		YES	NO	NA
4. Did a chain of custody accompany the samples?		YES	NO	
* Was it properly filled out?		YES	NO	
5. Were correct containers used for the analysis requested?		YES	NO	
6. Were all eontainers properly preserved?		YES	NO	NA
7. Were all water samples received at the proper pH?		YES	NO	NA
8. If VOA vials were present, was there any head space?		YES	NO	NA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of custody?		YES	NO	
10. Did containers arrive within holding time of analysis?	🔲	YES	NO	
* If not, please state field ID and analysis of sample(s) out of holding ti	ime:			
11. Was client informed of any/all deficiencies in sample check-in?		YES	NO	NA
12. Were any samples rejected?		YES	<u>ko</u>	
* If so, please state field ID of rejected sample(s):				
Sample Custodian (signed):	1			

																											Z	+2	10	39	33	2	
SUTHERLAND ENVIRONMEN	TAL	2515 5	th Av	enue	Sou	th		I	Pho	ne:	: 20	05 5	581	95	00												SI	21	H		R	E	3
COMPANY, INC.		Birmin	ghan	n, AL	352	33			F	ax:	: 20	05 5	581	95	04												ΕN	GI	NE	Ē	RIN	G.	INC
																												-				. •,	
Consultant Name:	SPHERE 3 Er	ngineerir	ig, Ind	<b>)</b> .												_				Pa	ge #	: Pa	ge 1	of	2		_		_				
Address:	3433 Sierra D	rive											_			_			ir	voic	e To	: <u>SP</u>	HEF	RE 3	Eng	jine	ering,	Inc.	_	_	_	_	10
City/State/Zip:	Hoover, Alaba	ama 352	16													_			F	lepo	rt To	: <u>G</u> .ł	loaç	land	IJ.H	lunt	er/G.I	Karst	ens	s/ma	il orig	inal	
Client:	Krish-Sai, LLC	2	_								_									Proj	ect#	: <u>K</u> S	SSS	.05			_	_				_	-
Consultant Project Mgr:	Greg Hoaglan	d											_	_	_	_	ι	JST	Inc	iden	t No.	: <u>US</u>	T15	-08-0	)3	_			-				
Consultant Telephone Number:	(205) 403.331	7		_		Fa	x N	o.: <u>(</u>	205	) 40	)3.3	3318	3	_		_			Fa	cility	ID #	: <u>Sto</u>	p n	Shop	Sh	ell	_	_	_				_
Sampler Name: (Print)	Tres Bond, Jir	nmy Joh	nson	·												_	_		Site	Add	ress	: 194	45 A	lmon	Str	eet	1.81.5	10.55		_		_	-
Sampler Signature:		16-	1	/			_	_	_								Cit	iy, C	ou	nty, s	State	: <u>He</u>	flin,	Cleb	urne	e Co	ounty,	Alat	am	a		_	
	•	·						Р	rese	егуа	ative	е			M	latri	×					Ana	lyze	For:			_	l	1.00				
Sample ID or Field ID           MW-1         2         2         4         0           MW-2         2         2         4         0           MW-3         2         2         4         0           MW-4         2         2         4         0	2/28/2020 2/28/2020 2/28/2020 2/28/2020	ра шш 13:09 14:00 16:53 16:39	ω ω ω Νο. of Containers Shipped	× × × × Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate		H <sub>2</sub> SO <sub>4</sub> Plastic (Yeliow Label)	H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)	HNO <sub>3</sub> (Red Label)	None (Black Label)	X X X Groundwater	Vastewaler Drinkinn Water	Sludge	Soil	Other (specify): WATER	X X X X 8TEX/MTBE 8260B	X X X X NAPHTHALENE 8260B								RUSH TAT (Pre-Sichedule	Z Z Z TAT request (in Bus. Days	A A A PDF Results (yes or no)		Due Date of Report	
MAL5 2124104	2/28/2020	17.07	2					,		+	+			$\overline{\mathbf{v}}$		+	+		$\overline{\mathbf{v}}$		+	+			+	-		╋		, V			
	2/20/2020	47.40					H	-ť.		╀	+			$\hat{\cdot}$		+	+		$\hat{\cdot}$	$\hat{\mathbf{x}}$	-+	+			+	_		+-		<u> </u>			
	2/28/2020	17:43	3	X			$\left  - \right $		×	╀	+			X	_	+	╀┤	$\square$	X	X		-	_		+	-	-	-	N	-Y		_	
MW-7 212400	2/28/2020	15:48	3	X			$\square$	;	×	$\perp$	_			X		$\downarrow$	<u> </u>		X	X	_				+	$\square$		╇	N	Y		-	
MW-8 22401	2/28/2020	16:05	3	Х				)	×	$\perp$				Х					X	X						_			Ν	Υ			
MW-9 212408	2/28/2020	14:17	3	Х				)	×					Х					X	Х									Ν	Υ			
MW-10 212469	2/28/2020	15:14	3	х					x					x					x	x									Ņ	Y			
Comments/Special Instructions:						<u></u>	- 1							1	I	_1			1	E	abor Te Sa	ator mpe mple	y Co ratul e Co Free	re Up ntain	ents con iers	s: Rec Inta	eiptu ict?	Nie	0	NNN			
Relinquished by:	Date		Tir	ne	Rece	ived 1	oy;					_		T	-	Date		1	Time	C	C De	livera	ables	(plea	ase	<u>circl</u>	e one	2					
In fol	3/2/	2020	5	151	C	4	B	1	a	0	Q	4	Δ		3/2	12	20	4	3	L	evel 2 evel 3	2											
Relinquished by:	' Daté		Tir	ne	Rece	ived t	by:			L	7				Γ	Date		]	Ime	L S P	evel ∠ ite Sp roject	i becifio Mar	c - if j nager	yes, p or ai	olea: ttach	se p n spe	re-sch ecifc ir	nedul nstru-	e w. ctio	/ SU ns	1 HER	LANI	

Phone: 205 581 9500 Fax: 205 581 9504  Page #: Page 2 of 2  Invoice To: SPHERE 3 Engineering, Inc, Report To: G.Hoagland/J.Hunter/G.Karstens/mail original Project #: KSSSS.05 UST Incident No.: UST15-08-03	<b>3</b> N C
Fax: 205 581 9504       ENGINEERING, I         Page #: Page 2 of 2       Invoice To: SPHERE 3 Engineering, Inc.         Report To: G.Hoagland/J.Hunter/G.Karstens/mail original       Project #: KSSSS.05         UST Incident No.: UST15-08-03       UST15-08-03	NC
Page #: Page 2 of 2 Invoice To: SPHERE 3 Engineering, Inc, Report To: G.Hoagland/J.Hunter/G.Karstens/mail original Project #: KS\$SS.05 UST Incident No.: UST15-08-03	
Page #: Page 2 of 2         Invoice To: SPHERE 3 Engineering, Inc,         Report To: G.Hoagland/J.Hunter/G.Karstens/mail original         Project #: KSSSS.05         UST Incident No.: UST15-08-03	
Invoice To: SPHERE 3 Engineering, Inc, Report To: G.Hoagland/J.Hunter/G.Karstens/mail original Project #: KS\$S\$.05 UST Incident No.: UST15-08-03	
Report To:       G.Hoagland/J.Hunter/G.Karstens/mail original         Project #:       KSSSS.05         UST Incident No.:       UST15-08-03	
Project #:         KS\$S\$.05           UST Incident No.:         UST15-08-03	_
UST Incident No.: UST15-08-03	
Facility ID #: Stop n Shop Shell	_
Site Address: 1945 Almon Street	
City, County, State: Heflin, Cleburne County, Alabama	
Preservative Matrix Analyze For:	
Nethenol         Methanol           Nor         X         X         X         Nachanol           Nor         X         X         X         X         Nachanol           Nor         Nor         Nachungu         Nachungu         Nachungu           Nor         Nor         Nachungu         Nachungu         Nachungu           Nor         Nachungu         Nachungu         Nachungu         Nachungu           Nachungu         Nachungu         Nachungu	
Laboratory Comments:         Temperature Upon Receipt:         Sample Containers Intact?         N         VOCs Free of Headspace?         N         OC Deliverables (please circle one)         Level 2         Level 3         Level 4         Site Specific - if yes, please pre-schedule w/ SUTHERLAND         Date	
d by:	UST Incident No: UST16-08-03 Facility ID #: Stop n Shop Shell Site Address: 1945 Almon Street City, County, State: Heflin, Cleburne County, Alabama Preservative Matrix Preservative Matrix Nanajze For: (apply big of 0 bi

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Ine.	Report Date:	June 30, 2020	
Attention:	Mr. Greg	Hoagland	Reference #	43252	
Address:	3433 Sier	та Drive	P.O. #	KSSSS.06	
	Hoover, A	AL 35216	Project ID:	Stop n Shop Shell	
Sample Ma	trix:	water	Analytical		
Date Recei	ved:	6/25/20	Analyst:	Hageman/Heard	
Date Colle	cted:	6/19/20	Date of Analysis:	6/27-30/20	
Sample Co	llector:	G. Karstens	Method:	EPA Method 8260B	

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE												
	FIELD ID MW-1	FIELD ID MW-2	FIELD ID MW-3	FIELD ID MW-4	FIELD ID MW-5	FIELD ID MW-6						
Volatile	LAB ID	Detection										
Organic, mg/L	216247	216248	216249	216250	216251	216252	Limit, ppm					
Benzene	0.234	2.300	BDL	BDL	BDL	BDL	0.001					
Toluene	BDL	0.053	BDL	BDL	BDL	BDL	0.001					
Ethylbenzene	0.005	0.220	BDL	BDL	BDL	BDL	0.001					
Xylenes, o,m,p	0.012	1.360	BDL	BDL	BDL	BDL	0.003					
MTBE	0.268	5.520	BDL	0.004	BDL	BDL	0.001					
Naphthalene	0.038	0.121	BDL	BDL	BDL	BDL	0.005					
	FIELD ID											
	MW-7	<u>MW-8</u>	<u>MW-9</u>	MW-10	<b>MW-11</b>	MW-DW1						
Volatile	LAB ID	Detection										
Organic, mg/L	216253	216254	216255	216256	216257	216258	Limit, ppm					
Benzene	1.390	BDL	0.016	0.009	0.044	BDL	0.001					
Toluene	0.060	BDL	BDL	0.104	0.001	BDL	0.001					
Ethylbenzene	0.225	BDL	BDL	0.524	BDL	BDL	0.001					
Xylenes, o,m,p	0.896	BDL	0.005	2.140	BDL	BDL	0.003					
MTBE	2.910	BDL	0.004	0.003	0.165	0.001	0.001					
Naphthalene	0.006	BDL	BDL	0.273	0.013	BDL	0.005					

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

All results expressed as ppm (mg/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	June 30, 2020	
Attention: Mr. Greg Hoagland		Hoagland	Reference #	43252	
Address: 3433 Sierra Drive		та Drive	P.O. #	KSSSS.06	
	Hoover, A	AL 35216	Project ID:	Stop n Shop Shell	
Sample Ma	trix:	water	Analytical		
Date Receiv	ved:	6/25/20	Analyst:	Hageman/Heard	
Date Collec	eted:	6/19/20	Date of Analysis:	6/28-30/20	
Sample Col	lector:	G. Karstens	Method:	EPA Method 8260B	

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE												
	FIELD ID											
	DUP-1											
Volatile	LAB ID						Detection					
Organic, mg/L	216259						Limit, ppm					
Benzene	2.400						0.001					
Toluene	0.053						0.001					
Ethylbenzene	0.228						0.001					
Xylenes, o,m,p	1.380						0.003					
MTBE	5.560						0.001					
Naphthalene	0.116						0.005					

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Vin Dorgets

Kevin Doriety Analytical Chemist

<ol> <li>Is the client and the sample collector(s) accurately noted on report?</li> </ol>	NO	NO YES							
2. Do all dates match the COC on the report?	NO	NO YES							
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO	NO YES							
4. Are all methods and method references correct on report?	NO YAS	NO YES							
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	YES YES	NO YES							
6. Is the report formatted correctly?	NO	NO YES							
7. Does the following information on report correspond to the printout information from the analytical instrumentation:	ne								
Sample Matrix	NO	NO YES							
Analyst	NO YS	NO YES							
Analysis Date/Time	NO	NO YES							
Analyte concentration	NO <b>XES</b>	NO YES							
Units	NO	NO YES							
Dilution Factors/Conversions	NO	NO YES							
Detection/Reporting/Quant. Limits	NO 🎾 🔊	NO YES							
QC Reviewed:	L THE	YES							
<b>Initial*:</b> * MJH = Michael Heard, KD = Kev	//////////////////////////////////////	n, KH = Kelly Hester							
PDF: HOAGAND, HUNTER, Karstens Invoice # 43252 Notes:									

### Sutherland Environmental Company Inc.

Sample Check-in Form											
Date Received: <u>6/25/26</u> Invoice #	_ 4	3252	2								
Method of Delivery: <u>Hand</u> Client:	5	Sphere 3									
1. Did any containers arrive broken?	YES	NO									
* If so, please state field ID with analysis of broken sample(s)											
2. Were cooler(s) sealed upon arrival?	YES	NO	NA								
3. Were the samples received at the proper teamperature $(4^{\circ}C + 2^{\circ}C)$ ?	YES	NO	NA								
4. Did a chain of eustody accompany the samples?	YES	NO	]								
* Was it properly filled out?	YES	NO	]								
5. Were correct containers used for the analysis requested?	YES	NO	]								
6. Were all containers properly preserved?	YES	NO	NA								
7. Were all water samples received at the proper pH?	YES	NO	NA								
8. If VOA vials were present, was there any head space?	YES	NO	NA								
* If so, please state field ID of deficient sample(s):											
9. Were all containers properly labeled and match chain of custody?	YES	NO	]								
10. Did containers arrive within holding time of analysis?	YES	NO	]								
* If not, please state field ID and analysis of sample(s) out of holding time: _											
11. Was client informed of any/all deficiencies in sample check-in?	YES	NO	NA								
12. Were any samples rejected?	YES	NO	]								
* If so, please state field ID of rejected sample(s):											

Sample Custodian (signed):

SUTHERLAND ENVIRONMEN COMPANY, INC.	TAL 251 Birr	5 5th Avenue ningham, AL	South 35233		P	hone: Fax:	205 205	581 581	950 950	0 4			Ц	3	,2	5	2	E	SF	<b>D</b> B I N	IE EEF	RIN	G, I N C
Consultant Name:	SPHERE 3 Engine	ering, Inc.												Page	#: P	age 1	of 2						
Address:	3433 Sierra Drive												Inv	oice '	To: S	PHEF	RE 3 E	nginee	ring, l	Inc.			
City/State/Zip:	Hoover, Alabama	35216											Re	port <sup>-</sup>	Fo; G	.Hoa	gland/.	J.Hunte	er/mai	l origi	nal		
Client:	Krish-Sai, LLC												P	roject	t #: K	ssss	S.06						
Consultant Project Mgr:	Greg Hoagland	_									ι	IST h	ncid	ent N	o.: U	<u>ST15</u>	-08-03	;					
Consultant Telephone Number:	(205) 403.3317	1	Fa:	x No	.: (2	05) 40	3.331	8				I	Facil	ity ID	)#: S	top n	Shop	Sheli					
Sampler Name: (Print)	KARSO	tups,										S	ite A	ddre	ss: <u>1</u> 9	945 A	lmon (	Street					
Sampler Signature:	k	Zla	Xale-	-				_			Cit	y, Co	unt	y, Sta	te: H	eflin,	Clebu	гпе Соц	unty, /	Alaba	ma	_	
					Pre	eserva	tive			Mat	rix	Т			An	alyze	For:			]			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Date Sampled	X     X     X       X     X       X <td>Composite Field Filtered</td> <td>Methanol</td> <td>X X X X X X X HCI (Blue Label)</td> <td>NaOH ( Orange Label)           H<sub>2</sub>SO<sub>4</sub> Plastic (Yellow Label)</td> <td>H<sub>5</sub>SO<sub>4</sub> Glass(Yellow Label) HNO<sub>5</sub> (Red Label)</td> <td>None (Black Label)</td> <td>X X X X X X X X X Groundwater</td> <td>Drinking Water</td> <td>Sludge Soil</td> <td>くくくくくくくくくという Brite Specify): WATER</td> <td>X X X X X X X X X X X NAPHTHALENE 8260B</td> <td>TEMPERATURE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>RUSH TAT (Pre-Schedule)</td> <td><math>A \land A \land BDF Results (yes or no)</math></td> <td></td> <td>Due Date of Report</td>	Composite Field Filtered	Methanol	X X X X X X X HCI (Blue Label)	NaOH ( Orange Label)           H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	H <sub>5</sub> SO <sub>4</sub> Glass(Yellow Label) HNO <sub>5</sub> (Red Label)	None (Black Label)	X X X X X X X X X Groundwater	Drinking Water	Sludge Soil	くくくくくくくくくという Brite Specify): WATER	X X X X X X X X X X X NAPHTHALENE 8260B	TEMPERATURE						RUSH TAT (Pre-Schedule)	$A \land A \land BDF Results (yes or no)$		Due Date of Report
MW-10 210 256	<u> </u>	74 3 X			X				Х			$\rightarrow$			orato						1 Y	_	
Relinquished by:	Date Date	Time	Received t	by:						Dat	e	Tir	me		Temp Samp VOCs Delive	eratu le Co Free rables	re Upo Intaine of He	on Rece rs Intac adspac	eipt: ' ct? ( ce? ( one)	4.90	N N		
Relinquished by:	Date	Time	Received t	by: MA	1	m			6	Dat  25	° 20	Tir Oq	те 55	Leve Leve Site Proj	el 3 el 4 Speci ect Ma	fic - if anagei	yes, pi r or atta	ease pr ach spe	e-sche	edule struct	w/ SUT ions	HERL	AND

SUTHERLAND ENVIRONMEN	TAL 2515	5th Avenue S	outh		Phone	e: 20	5 581	950	0				H	3	75	n/			SF	7	IE	R	E (	3
COMPANY, INC.	Birm	ingha <mark>m, AL</mark> 3	5233		Fax	c 20	5 581	950	4				ŗ	Q	•			E	ENC	GIN	EEF	RIN	G, I N	IC
Consultant Name: Address: City/State/Zip: Client: Consultant Project Mgr: Consultant Telephone Number: Sampler Name: (Print) Sampler Signature:	SPHERE 3 Enginee 3433 Sierra Drive Hoover, Alabama 3 Krish-Sai, LLC Greg Hoagland (205) 403.3317	sting, Inc. 5216	Fax	( No.: (	(205) 4	03.3	318			Ci	UST : ty, C	In R Inci Fac Site	Pa voic epo Proj den :ility Add	ige #: rt To: ect #: t No.; ID #: ress: State:	Page SPH G.Hc KSS UST Stop 1945 Heflin	2 of ERE 3 aglar SS 06 15-08 n Sho Almo	2 3 Eng nd/J.F -03 op Sł on St	ginee Hunte hell reet e Cou	ring, r/mai	Inc.	nal			
				F	reserv	vative	;		Mati	rix					Analy.	ze Fo	r:				-			
Sample ID or Field ID MW-11 Zl6257 MW-DW1 Zl6258 DUP-1 Zl6259 TEMPERATURE BLANK	Date Sampled	No. of Containers Shipped       X     X       X     X       Granhoeite	Field Fittered	Methanol Sodium Bisulfate	X X X HCI (Slue Label) NaOH ( Orange Label) H-SO Plactic (Valum Label)	H <sub>2</sub> SO4 Glass(Yellow Label)	HNO <sub>3</sub> (Red Label)	X X Groundwater	Dinking Water	Sol	X Other (specify): WATER	X X X BIEX/MTBE 82608	X X NAPHIHALENE 82608							RUSH TAT (Pre-Schedule)	C C C C C C C C C C C C C C C C C C C		Due Date of Report	
									TT			Т	T			11								
Comments/Special Instructions:	ULS/2	Time Re	ceived by	у. У.					Date	e	Т	ïme		abora Ter Sai VO <u>C Del</u> evel 2 evel 3	npera npera nple C Cs Fre	Comm ture L Contai Be of I <u>es (ple</u>	hent Jpon Iners Heac ease	s: Rece Intac Ispaci circle	ipt: " t? e? ( оле)	4.00	N N			
Relinquished by:	Date	Time Re		EN.	m/	,	in the second	(	Date	¯w	۲ ٥٩	<sup>ime</sup> 55	Le Si Pi	evel 4 ite Spe roject	ecific - Manag	ifyes, ierora	plea atlaci	se pre h spec	-sche sifc in:	edule structi	w/ SUT	HERL	AND	

### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	September 23, 2020
Attention: Mr. Greg Hoagland		Hoagland	Reference #	43706
Address: 3433 Sierra Drive		ra Drive	P.O. #	KSSSS.08
	Hoover, A	AL 35216	Project ID:	Stop n Shop Shell
Sample Ma	trix:	water	Analytical	
Date Receiv	ved:	9/18/20	Analyst:	Hageman/Heard
Date Collec	ted:	9/10/20	Date of Analysis:	9/18-22/20
Sample Col	lector:	G. Karstens	Method:	EPA Method 8260B

<b>VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE</b>										
	FIELD ID MW-1	FIELD ID MW-2	FIELD ID MW-3	FIELD ID MW-4	FIELD ID MW-5	FIELD ID MW-6				
Volatile	LAB ID	Detection								
Organic, mg/L	219054	219055	219056	<b>21905</b> 7	219058	219059	Limit, ppm			
Benzene	0.159	1.270	BDL	BDL	BDL	BDL	0.001			
Toluene	BDL	0.059	BDL	BDL	BDL	BDL	0.001			
Ethylbenzene	BDL	0.035	BDL	BDL	BDL	BDL	0.001			
Xylenes, o,m,p	0.009	0.360	BDL	BDL	BDL	BDL	0.003			
MTBE	0.138	2.260	BDL	0.003	BDL	BDL	0.001			
Naphthalene	0.011	0.022	BDL	BDL	BDL	BDL	0.005			
	FIELD ID									
	MW-7	MW-8	MW-9	MW-10	MW-11	MW-DW1				
Volatile	LAB ID	Detection								
Organic, mg/L	219060	219061	219062	219063	219064	219065	Limit, ppm			
Benzene	1.700	BDL	0.015	0.022	0.056	BDL	0.001			
Toluene	0.082	BDL	0.002	0.145	0.001	BDL	0.001			
Ethylbenzene	0.318	BDL	BDL	0.535	BDL	BDL	0.001			
Xylenes, o,m,p	1.160	BDL	0.007	2.020	BDL	BDL	0.003			
MTBE	4.420	BDL	0.004	0.033	0.418	BDL	0.001			
Naphthalene	0.122	BDL	BDL	0.278	0.008	BDL	0.005			

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

All results expressed as ppm (mg/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineering, Inc.		Report Date:	September 23, 2020	
Attention: Mr. Greg Hoagland		Reference #	43706	
3433 Sier	rra Drive	P.O. #	KSSSS.08	
Hoover, A	AL 35216	Project ID:	Stop n Shop Shell	
trix:	water	Analytical		
ved:	9/18/20	Analyst:	Hageman/Heard	
ted:	9/10/20	Date of Analysis:	9/19/20	
lector:	G. Karstens	Method:	EPA Method 8260B	
	Sphere 3 Mr. Greg 3433 Sier Hoover, <i>J</i> trix: //ed: tred: lector:	Sphere 3 Engineering, Inc. Mr. Greg Hoagland 3433 Sierra Drive Hoover, AL 35216 trix: water yed: 9/18/20 ted: 9/10/20 lector: G. Karstens	Sphere 3 Engineering, Inc.Report Date:Mr. Greg HoaglandReference #3433 Sierra DriveP.O. #Hoover, AL 35216Project ID:trix:waterAnalytical/red:9/18/20Analyst:tred:9/10/20Date of Analysis:lector:G. Karstens	Sphere 3 Engineering, Inc.Report Date:September 23, 2020Mr. Greg HoaglandReference #437063433 Sierra DriveP.O. #KSSSS.08Hoover, AL 35216Project ID:Stop n Shop Shelltrix:waterAnalytical/red:9/18/20Analyst:Hageman/HeardDate of Analysis:9/19/20lector:G. KarstensMethod:EPA Method 8260B

<b>VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE</b>											
	FIELD ID										
	DUP-1										
Volatile	LAB ID						Detection				
Organic, mg/L	219067						Limit, ppm				
Benzene	0.022						0.001				
Toluene	0.137						0.001				
Ethylbenzene	0.515						0.001				
Xylenes, o,m,p	1.970						0.003				
MTBE	0.034						0.001				
Naphthalene	0.283						0.005				

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

mH / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kin Dong

Kevin Doriety Analytical Chemist



Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



#### **Case Narrative**

Laboratory Reference #:

All client ID's, parameters, field ID's, lab ID's and analytical methods are noted in report. All parameters, including preparation and analysis, were performed using acceptable methodology. All samples were received in good condition unless noted in the sample check-in sheet. All samples were prepared, incubated and analyzed within hold time unless noted. Sample(s) were diluted to within standard curve parameters when necessary. All QC samples/MS Tune/surrogate recoveries for applicable methods were within acceptable range unless noted.

43706

#### Occurrence(s) affecting sample integrity or data quality:

No occurrences were observed during analysis that may have impacted sample integrity or data quality.

#### **Method References**

SM: Standard Methods 21<sup>st</sup> edition (2005), H: Referenced Hach Methods compatible E: EPA Methods for Chemical Analysis of water & wastes (1983) Revisions (DW): SM3113B 21st ed (2005); 200.7, rev.4.4 (1994); 245.1 rev.3.0 (1994); 524.2 rev.4.1 (1995) SW: SW 846 Test Methods 3<sup>rd</sup> edition (1997)

#### **Common Abbreviations**

OA/OC = Quality Assurance / Quality Control GW = groundwater, WW = wastewater, DW = drinking water, SS = soil sample, A = air sample, SO = solid, SL = sludge ug/L, ug/Kg, ppb = parts per billion mg/L, mg/Kg, ppm = parts per million D.L. = Detection Limit, Method (unless otherwise noted) BDL = Below Detection Limit, Method (unless otherwise noted) MDL = Method Detection Limit, minimum calibration standard unless otherwise noted RL = Reporting Limit PQL = Practical Quantitation Limit NA = Not Available ND = None Detected TNTC = Too Numerous to Count \* Sample was above method detection limit and below reporting limit (water/liquid).

\* Sample was above practical quantitation limit and below reporting limit (soil/solid).

Respectfully submitted,

QA/QC Verified

Kevin Doriety

Analytical Chemist

EPA Laboratory ID AL01084, ADEM #41470

### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	September 24, 2020	
Attention:	ion: Mr. Greg Hoagland		Reference #	43706	
Address:	ddress: 3433 Sierra Drive		P.O. #	KSSSS.08	
	Hoover,	AL 35216	Project ID:	Stop n Shop Shell	
Sample Ma	trix:	drinking water	Analytical		
Date Recei	ved:	9/18/20	Analyst:	Hageman/Heard	
Date Collec	cted:	9/10/20	Date of Analysis:	9/23/20	
Sample Collector:		G. Karstens	Method:	EPA Method 524.2	

VOLATILE ORGANIC COMPOUNDS										
	FIELD ID				Minimum	Method				
VOLATILE	PRW-1				Calibration	Detection				
ORGANIC	LAB ID				Standard	Limit				
COMPOUNDS, PPM	219066				PPM	PPM				
Benzene	BDL				0.00100	0.00029				
Bromobenzene	BDL				0.00100	0.00030				
Bromochloromethane	BDL				0.00100	0.00024				
Bromodichloromethane	BDL				0.00100	0.00031				
Bromoform	BDL				0.00100	0.00030				
Bromomethane	BDL				0.00100	0.00052				
n-Butylbenzene	BDL				0.00100	0.00046				
sec-Butylbenzene	BDL				0.00100	0.00029				
tert-Butybenzene	BDL				0.00100	0.00036				
Carbon Tetrachloride	BDL				0.00100	0.00031				
Chlorobenzene	BDL				0.00100	0.00027				
Chloroethane	BDL				0.00100	0.00045				
Chloromethane	BDL				0.00100	0.00034				
Chloroform	BDL				0.00100	0.00038				
2-Chlorotoluene	BDL				0.00100	0.00035				
4-Chlorotoluene	BDL				0.00100	0.00032				
Dibromochloromethane	BDL				0.00100	0.00083				
1,2-Dibromo-3-Chloropropane	BDL				0.00100	0.00080				
1,2-Dibromoethane	BDL				0.00100	0.00026				
Dibromomethane	BDL				0.00100	0.00026				
1,2-Dichlorobenzene	BDL				0.00100	0.00027				
1,3-Dichlorobenzene	BDL				0.00100	0.00031				
1,4-Dichlorobenzene	BDL				0.00100	0.00035				
Dichlorodifluoromethane	BDL				0.00100	0.00043				
1,1-Dichloroethane	BDL				0.00100	0.00026				
1,2-Dichloroethane	BDL				0.00100	0.00037				
1,1-Dichloroethene	BDL				0.00100	0.00024				
cis-1,2-Dichloroethene	BDL				0.00100	0.00026				
trans-1,2-Dichloroethene	BDL				0.00100	0.00024				

\*\*Compound List Continued next page\*\*

### Environmental Company, Inc.

2515 5th Avenue South Birnningham, AL 35233 205-581-9500



Client:	Sphere 3 Engineering, Inc. on: Mr. Greg Hoagland s: 3433 Sierra Drive		Report Date:	September 24, 2020			
Attention:			Reference #	43706			
Address:			P.O. #	KSSSS.08			
Hoover, AL 35216		Project ID:	Stop n Shop Shell				
Sample Matrix:		drinking water	Analytical				
Date Receiv	ved:	9/18/20	Analyst:	Hageman/Heard			
Date Collected:		9/10/20	Date of Analysis:	9/23/20			
Sample Collector:		G. Karstens	Method:	EPA Method 524.2			

VOLATILE ORGANIC COMPOUNDS											
	FIELD ID				Minimum	Method					
VOLATILE	PRW-1				Calibration	Detection					
ORGANIC	LAB ID				Standard	Limit					
COMPOUNDS, PPM	219066				PPM	PPM					
1,2-Dichloropropane	BDL				0.00100	0.00030					
1,3- Dichloropropane	BDL				0.00100	0.00023					
2,2-Dichloropropane	BDL				0.00100	0.00036					
1,1-Dichloropropene	BDL				0.00100	0.00025					
cis-1,3-Dichloropropene	BDL				0.00100	0.00027					
trans-1,3-Dichloropropene	BDL				0.00100	0.00028					
Ethylbenzene	BDL				0.00100	0.00032					
Hexachlorobutadiene	BDL				0.00200	0.00080					
Isopropylbenzene	BDL				0.00100	0.00045					
4-Isopropyltoluene	BDL				0.00100	0.00031					
Methylene Chloride	BDL				0.00100	0.00031					
Methyl-t-butyl Ether (MTBE)	BDL				0.00100	0.00025					
Naphthalene	BDL				0.00100	0.00062					
n-Propylbenzene	BDL				0.00100	0.00032					
Styrene	BDL				0.00100	0.00034					
1,1,1,2-Tetrachloroethane	BDL				0.00100	0.00026					
1,1,2,2-Tetrachloroethane	BDL				0.00100	0.00028					
Tetrachloroethene	BDL				0.00100	0.00037					
Toluene	BDL				0.00100	0.00035					
1,2,3-Trichlorobenzene	BDL				0.00100	0.00059					
1,2,4-Trichlorobenzene	BDL				0.00100	0.00054					
1,1,1-Trichloroethane	BDL				0.00100	0.00027					
1,1,2-Trichloroethane	BDL				0.00100	0.00033					
Trichloroethene	BDL				0.00100	0.00029					
Trichlorofluoromethane	BDL				0.00100	0.00040					
1,2,3-Trichloropropane	BDL				0.00100	0.00030					
1,2,4-Trimethylbenzene	BDL				0.00100	0.00027					
1,3,5-Trimethylbenzene	BDL				0.00100	0.00031					
Vinyl Chloride	BDL				0.00100	0.00028					
Xylenes, o,m,p	BDL				0.00300	0.00091					

\*\*Compound List Continued next page\*\*



### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Client: Sphere 3 Engineering, Inc. Attention: Mr. Greg Hoagland Address: 3433 Sierra Drive		Report Date:	September 24, 2020			
Attention:			Reference #	43706			
Address:			P.O. #	KSSSS.08			
Hoover, AL 35216		Project ID:	Stop n Shop Shell				
					_		
Sample Matrix:		drinking water	Analytical				
Date Recei	ved:	9/18/20	Analyst:	Hageman/Heard			
Date Collected:		9/10/20	Date of Analysis:	9/23/20			
Sample Collector:		G. Karstens	Method:	EPA Method 524.2			

VOLATILE ORGANIC COMPOUNDS											
	FIELD ID				Minimum	Method					
VOLATILE	PRW-1				Calibration	Detection					
ORGANIC	LAB ID				Standard	Limit					
COMPOUNDS, PPM	219066				PPM	РРМ					
Acetone	BDL.				0.00100	0.00048					
Acrylonitrile	BDL				0.00100	0.00044					
Allyl Chloride	BDL				0.00100	0.00030					
2-Butanone (MEK)	BDL				0.00100	0.00050					
Carbon Disulfide	BDL				0.00100	0.00034					
Chloroacetonitrile	BDL				0.00100	0.00036					
1-Chlorobutane	BDL				0.00100	0.00040					
1,1-Dichloropropanone	BDL				0.00100	0.00075					
Diethyl Ether	BDL				0.00100	0.00029					
Ethyl Methacrylate	BDL				0.00100	0.00042					
Hexachloroethane	BDL				0.00100	0.00029					
2-Hexanone	BDL				0.00100	0.00040					
Methacrylonitrile	BDL				0.00100	0.00052					
Methylacrylate	BDL				0.00100	0.00026					
Methyl Iodide	BDL				0.00100	0.00074					
Methyl Methacrylate	BDL				0.00100	0.00030					
4-Methyl-2-Pentanone (MIBK)	BDL				0.00100	0.00039					
Pentachloroethane	BDL				0.00100	0.00033					
Propionitrile	BDL				0.00100	0.00053					
Tetrahydrofuran	BDL				0.00100	0.00056					

Reporting Limit (RL) is minimum calibration standard, unless otherwise noted

BDL = Below Detection Limit, Method MDL is calculated MDL All results expressed as PPM (mg/L)

/ QAQC

EPA Laboratory ID AL01084 Reference: EPA Method 524.2 Revision 4.1 (1995)

Respectfully submitted,

Nei Dough

Kevin Doriety Analytical Chemist

## Sutherland Environmental Company Inc.

Sample Check-in Form											
Date Received: 9   18/20	Invoice #	43	706								
Method of Delivery: 14and	Client:	5	phere	3							
1. Did any containers arrive broken?		YES		]							
* If so, please state field ID with analysis of broken sar	nple(s)			_							
2. Were cooler(s) sealed upon arrival?		VES	NO	NA							
3. Were the samples received at the proper teamperature (	4°C +/- 2°C)?	VIÉS	NO	NA							
4. Did a chain of custody accompany the samples?		YES	NO	]							
* Was it properly filled out?		UYES	NO								
5. Were correct containers used for the analysis requested	?	<b>L</b> ¥ES	NO								
6. Were all containers properly preserved?		YES	NO	NA							
7. Were all water samples received at the proper pH?		UYÉS	NO	NA							
8. If VOA vials were present, was there any head space? .		YES	LNO	NA							
* If so, please state field ID of deficient sample(s):				-							
9. Were all containers properly labeled and match chain of	fcustody?	J∕ES	NO								
10. Did containers arrive within holding time of analysis?		LYES	NO								
* If not, please state field ID and analysis of sample(s)	out of holding time:										
11. Was client informed of any/all deficiencies in sample of	check-in?	YES	NO	L NA							
12. Were any samples rejected?	[	YES	NO								
* If so, please state field ID of rejected sample(s):	-11										
Sample Custodian (signed):	MINA										



# Sutherland Environmental Drinking Water Checklist EPA Method: 524.2

Sample Collection/Storage/Preservation	Initial 1	Initial 2									
1. Are all samples collected in duplicate with at least	NO	NO YES									
one sample in triplicate for Lab. Fortified Matrix?											
2. Were all samples preserved correctly $(pH < 2)$ ?	NO	NO YES									
3. Were all VOA vials free from headspace?	NO	NO YES									
4. Were all samples cooled to $4^{\circ}C$ (+/- $2^{\circ}C$ )?	NO	NO YES									
5. Were all samples analyzed within 14d of collection?	NO YOS	NO YES									
6. Was a trip blank included in the sample batch?	NO VIS	NO									
Ouality Control											
1. Were integrated peaks of ISTD/SURR >50%?	NO YES	NO YES									
2. Was a Laboratory Reagent Blank analyzed before (BVS initial) & after (BVS final) sample analysis. Were each regulated volatile below minimum calibration values?	NO	NO YES									
3. Was a Laboratory Fortified Blank (UVS) analyzed and were each regulated volatile within an acceptable range?	NO	NO YES									
Calibration/Standardization											
1. Did the instrument pass a MS tune (every 12h for 524.2)?	NO	NO YES									
2. Was a mid level control (CVS) or 5-point standards (SVS) analyzed prior to samples?	NO	NO YES									
3. Was a minimum level calibration (CVS-A) analyzed?	NO	NO YES									
4. Is the RSD of each regulated volatile & surrogate $< $ or $= 20\%$ ?	NO	NO YES									
Initial*:	Hem										
* MJH = Michael Heard, KD = Kevin	Doriety, MSH = Matt Hagema	an, KH = Kelly Hester									
Analysis/Calculations The analytical results and calculations review can be found on the R&R checklist.											
Any discrepancies noted in the drinking water checklist and R&I corresponds to the invo	R checklist should be noted in ice # below.	the case narrative that									
Reference: EPA Method 524.2 Revision 4.1 (1995) Invoice # 43700											

<ol> <li>Is the client and the sample collector(s) accurately noted on report?</li> </ol>	NO YES	NO YES								
2. Do all dates match the COC on the report?	NO	NO YES								
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO	NO YES								
4. Are all methods and method references correct on report	? NO YES	NO YES								
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO	NO YES								
6. Is the report formatted correctly?	NO	NO YES								
7. Does the following information on report correspond to printout information from the analytical instrumentation	he :									
Sample Matrix	NO	NO YES								
Analyst	NO	NO YES								
Analysis Date/Time	NO	NO YES								
Analyte concentration	NO	NO YES								
Units	NO	NO YES								
Dilution Factors/Conversions	NO	NO YES								
Detection/Reporting/Quant. Limits	NO YES	NO YES								
QC Reviewed:	YES	YES								
<b>Initial*:</b> * MIH = Michael Heard KD = Ke	vin Doriety, MSH = Matt Hagema	n. KH = Kelly Hester								
PDF: HOAG and Hunter	43701	0								
Notes: DW Sample added Invoice # Sutherland Environmental Co., Inc.										

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COMPANY, INC. Birmin			gham, J	AL 35233 Fax: 205 581 9504																EI	NG	∎ I I N	EEI	RIN	G, I	NC						
Consultant Name:	SPHERE 3 E	ngineerir	ng, Inc.															Page #	4: <u>P</u> a	ige 1	of :	2										
Address:	3433 Sierra D	nve				_											ín	voice To	: <u>S</u> F	HE	RE 3	Engir	neerin	g, Inc	D.			_				
City/State/Zip:	Hoover, Alaba	uma 352	216							_							R	eport To	: <u>G</u>	Hoa	gland	/J.Hu	Inter/r	nail c	rigir	nal	800					
Consultant Project Mar:	Gree Headlan													_		107	l In ci	Project #	*: <u>K</u>	SSS	5.08			-		-	-					
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MW-2 2A055		1620	2>	(		L	>	<	$\square$			Х					X J	× 📃								ΙY						
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MW-4 219057		1410	2 >	<			)	<u>(</u>				Х	Ц				$\times$	<							N	IY	_					
MW-5 219 058	A	1240	2)	(			)	<u>&lt;</u>				Х					X )	<u> </u>							N	IY						
MW-6 24 059		1305	2,	<				<				Х					X J	× L								IY						
MW-7 219 060		1540	2,	(			>	<				Х					X	×							Ν	ΙY						
MW-8 24061		1605	2)	(			)	<	$\square$			Х					<u>x </u> ;	<							Ν	IY						
MW-9 219062		1700	2)	<			>	<				Х	Ц				X )	< <u> </u>							N	Y						
MW-10 219063	C	1440	12)				>					Х					X 🛛	<							Ν	ΙY		_				
Comments/Special Instructions:																		Labo	ator	y Co Pratu	omme re Llu	ents:	ecein	÷Ц	50	>						
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Consultant Name:	SPHERE 3 Eng	gineering	, Inc.															i	Pag	e #:	Pag	e 2	of 2							_		
Address:	3433 Sierra Dri	ive												_			1	Invo	vice	To:	SPH	IER	<u>E 3 </u> E	Engir	neerir	ng, l	nc.					
City/State/Zip:	Hoover, Alabar	na 3521	6	·····														Rep	ort	To:	G.H	oagi	land/	J.Hu	inter/i	mail	lorig	inal	_			- 23
Client:	Krish-Sai, LLC																	Pr	ojec	:t #:	KSS	SSS.	08								_	
Consultant Project Mgr:	Greg Hoagland	1				-	_							-		US	T In	cide	ent l	No.:	USI	15-	08-0	3		-	_	_	_		_	
Consultant Telephone Number:	(205) 403,3317	00	-		Fa	x No	.: (	205)	403	3.33	18			—			Fa	acili	ity II	) #:	Stop	o n S	Shop	She	11		-	-			_	
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	<u> </u>						P	rese	rvat	ive	_		1	Mat	rix						Anal	yze l	or:			220		<b>7</b>		_	_	-
Sample ID or Field ID MW-11 219064 MW-DW1 219065 PRW-1 219066 DUP-1 219067 TEMPERATURE BLANK	Date Sampled	Time Sampled	L C C No. of Containers Shipped	Composite	Field Fittered	Methano!	× × × × HCI (Rive Lahel)	NaCH ( Orange Label)	H <sub>2</sub> SO <sub>4</sub> Plastic (Yeilow Label)	H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)	HNU3 (Ked Label)	X X X Groundwater	Wastewater	Drinking Water	Sludge	X Other (specify): WATER	X X X BTEX/MTBE 8260B	X X NAPHTHALENE 8260B	VOC Water Supply 524.2								RUSH TAT (Pre-Schedule)	ZZZZZIZIAI request (in Bus. Uays)				
							Τ			1		Γ																-				
Comments/Special Instructions:	Date		Time	Rece	ived b	y:						- 		Date	e		Tim	e	<u>Cat</u>	Ten Sar VO( Deli	tory npera nple Cs Fi verat	Con Con ree (	nme e Upo tairie of He pleas	nts: on R ers Ir eads se cir	eceip itact? pace?	nt: レ , ? で <u>ne)</u>	1.5	N N N				
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# Sutherland

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	December 29, 2020	
Attention:	Mr. Greg	g Hoagland	Reference #	44276	
Address:	3433 Sie	rra Drive	P.O. #	KSSSS.09	
	Hoover,	AL 35216	Project ID:	Stop n Shop Shell	
Sample Ma	trix:	water	Analytical		
Date Receiv	ved:	12/23/20	Analyst:	Hageman/Heard	
Date Collec	cted:	12/18/20	Date of Analysis:	12/27-29/20	
Sample Col	llector:	G. Karstens	Method:	EPA Method 8260B	

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE													
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	<b>MW-1</b>	<u>MW-2</u>	MW-3	MW-4	<u>MW</u> -5	MW-6							
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Organic, mg/L	222143	222144	222145	222146	222147	222148	Limit, ppm						
Benzene	0.236	0.709	BDL	BDL	BDL	BDL	0.001						
Toluene	0.004	0.014	BDL	BDL	BDL	BDL	0.001						
Ethylbenzene	0.008	0.005	BDL	BDL	BDL	BDL	0.001						
Xylenes, o,m,p	0.017	0.083	BDL	BDL	BDL	BDL	0.003						
MTBE	0.222	1.160	BDL	0.003	BDL	BDL	0.001						
Naphthalene	0.017	0.009	BDL	BDL	BDL	BDL	0.005						
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	<b>MW-7</b>	MW-8	MW-9	MW-10	MW-11	MW-DW1							
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Organic, mg/L	222149	222150	222151	222152	222153	222154	Limit, ppm						
Benzene	I.7I0	BDL	0.036	0.007	0.066	BDL	0.001						
Toluene	0.034	BDL	0.003	0.152	0.002	BDL	0.001						
Ethylbenzene	0.242	BDL	0.002	0.570	BDL	BDL	0.001						
Xylenes, o,m,p	0.730	BDL	0.015	1.810	BDL	BDL	0.003						
MTBE	3.900	BDL	0.005	0.009	0.280	BDL	0.001						
Naphthalene	0.069	BDL	BDL	0.274	0.008	BDL	0.005						

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

All results expressed as ppm (mg/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

# Sutherland

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	December 29, 2020	
Attention:	Mr. Greg	Hoagland	Reference #	44276	
Address:	3433 Sie	rra Drive	P.O. #	KSSSS.09	
	Hoover,	AL 35216	Project ID:	Stop n Shop Shell	
Sample Ma	trix:	water	Analytical		
Date Receiv	ved:	12/23/20	Analyst:	Hageman/Heard	
Date Collec	eted:	12/18/20	Date of Analysis:	12/28/20	
Sample Col	llector:	G. Karstens	Method:	EPA Method 8260B	

VOLATI	LE ORG	GANICS	- BTEX	/MTBE/]	NAPHTI	HALENF	C
	FIELD ID						
	DUP-1						
Volatile	LAB ID						Detection
Organic, mg/L	222155						Limit, ppm
Benzene	0.007						0.001
Toluene	0.151						0.001
Ethylbenzene	0.574						0.001
Xylenes, o,m,p	1.820						0.003
MTBE	0.010						0.001
Naphthalene	0.261						0.005

Result is above method detection limit and below reporting limit BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

MH IQAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Nei Dougt

Kevin Doriety Analytical Chemist

#### Sutherland Environmental Read and Review Checklist

<ol> <li>Is the client and the sample collector(s) accurately note on report?</li> </ol>	ed NO YES	NO YES
2. Do all dates match the COC on the report?	NO	NO YES
3. Is the purchase order ID (PO) and project ID accuratel noted on report?	y NO YKS	NO YES
4. Are all methods and method references correct on repo	ort? NO YES	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO YES	NO YES
6. Is the report formatted correctly?	NO YES	NO YES
7. Does the following information on report correspond t printout information from the analytical instrumentati	o the on:	
Sample Matrix	NOYAS	NO YES
Analyst	NO XES	NO YES
Analysis Date/Time	NO YKS	NO YES
Analyte concentration	NO	NO YES
Units	NO	NO YES
Dilution Factors/Conversions	NO	NO YES
Detection/Reporting/Quant. Limits	NO VRS	NO YES
QC Reviewed:	ĬKS .	YES
<b>Initial*:</b> * MIH = Michael Heard KD =	Met	an KH = Kelly Høster
lloadland D LL tot	North Doney, Morr – Mait Hagelli	an, and the rest of the sector
PDF: HUUY IMVN, HUU V	<sub>oice #</sub> 44270	
Notes:	Sutherland Environmenta	nl Co., Inc.

### Sutherland Environmental Company Inc.

Date Received: 12/23/20	Invoice #	442	76	
Method of Delivery: <u>Hand</u>	Client:	Sph	ere 3	
L. Did any containers arrive broken?	[	YES	-NO	]
* If so, please state field ID with analysis of broken	sample(s)			_
2. Were cooler(s) sealed upon arrival?	[	YES	NO	NA
. Were the samples received at the proper teamperatu	re (4°C +/- 2°C)? [	VES	NO	NA
. Did a chain of custody accompany the samples?	[	UTES	NO	]
* Was it properly filled out?	[	UTES	NO	]
. Were correct containers used for the analysis reques	ted? [	LYES	NO	]
. Were all containers properly preserved?	[	UTÉS	NO	NA
. Were all water samples received at the proper pH? .	[	<b>U</b> YES	NO	NA
. If VOA vials were present, was there any head space	e?[	YES	LAO	NA
* If so, please state field ID of deficient sample(s):				_
. Were all containers property labeled and match chai	n of custody?	VYES	NO	
0. Did containers arrive within holding time of analys	is? [	YES	NO	
* If not, please state field ID and analysis of sample	(s) out of holding time:			
1. Was client informed of any/all deficiencies in samp	ble check-in?	YES	NO	UNA
2. Were any samples rejected?	[	YES	-NO	
* If so, please state field ID of rejected sample(s):				

																						-	L	42	76			
SUTHERLAND ENVIRONMEN	TAL	2515 5tl	h Avenu	e Sout	th		PI	hone	e: 2	05 58	19	500	1									>	P			KE	: 5	)
COMPANY, INC.		Birming	iham, Al	3523	33			Fax	c: 2	05 58	19	504										E١	١G	INE	EER	ING	, INC	2
Consultant Name:	SPHERE 3 E	ngineering	g, Inc.				_										Page #	¥; F	age	1 of 2	2							
Address:	3433 Sierra [	Drive														h	nvoice To	b: [5	PHE	RE 3	Engir	neerin	g, Inc	3.				
City/State/Zip:	Hoover, Alab	ama 3521	6										148			F	Report To	: <u>g</u>	reg@	)sphe	re3.c	om; jo	n@s	phere	e3.con	1		
Client:	Krish-Sai, LL	С															Project #	¥: <u>k</u>	SSS	S.0 <b>9</b>				_	_			
Consultant Project Mgr:	Greg Hoagla	nd					(0)		0.0						UST	r Inc	ident No	.: <u>L</u>	IST1	5-08-0	)3					_	-	-
Consultant Telephone Number:	(205) 403.33	1/ 5/C - E	77	0.00	Fax	No	.: (2	05) 4	03.	3318						Fa	cility ID #	#: <u>s</u>	top n	Shop	She	11		_	_			_
Sampler Name. (Print)	1-3	Cic	00		-	-								~	<b>.</b>	Site	Address	$\frac{1}{1}$	945 A		Stre	et	AL.	-		_		-
Sampler Signature.		<u>~~</u>	-Carto	jle	~	<b>)</b> /	_	_			_				цу,	Cou	nty, state	<u> </u>	ienim,	Clebi	ume	Count	y, Ala	aparr	la	_		-
			7	1 1				eserv I I	ativ		╋		Mai					Ar T	nalyze	For:	-1-	ъŤ	-	5 6				-
Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped Grab	Composite	Field Fittered	Methanol Sodium Disultato	HCI (Blue Label)	NaOH ( Orange Label) H.S.O. Plackie (Vellow ) ahel)	H-SO4 Class(Yellow Label)	HNO <sub>3</sub> (Red Labe!)	Groundwater	Wastewater	Drinking Water	Sludge	Other (specify): WATER	BTEX/MTBE 8260B	NAPHTHALENE 8260B TEMPERATURE						DIIGU TAT ID. Cobodido	TAT request (in Bus, Days	.PDF Results (yes or no)	Due Date of Report		
MW-1 222143	12/10/20	1690	$\langle \times \rangle$	$\square$			X		<b>_</b>	┢	<u> </u>				Ц	Х	X	_						N	Y			_
MW-2 222144		1610	2 X				X				X					Х	X							N	Y			
MW-3 222145		1340	2 x				X				X					X	X							N	Y		_	
MW-4 222146		1410	$2 \times$				Х				X					Х	X							N	Y			
MW-5 222 147		1245	2 X				X				X					X	X	Τ	Τ					N	Y			
MW-6 222 148		135	2 X				X				X				П	X	X					11		N	Y			
MW-7 222 149		1440	2 X				X		1-		X					X	X	T	-†					N	Y			
MW-8 222 150		155	7. X			-	X				Tx				11	X	x	╈	+			$^{+1}$	1	N	V -			1
MW-9 222 151		1540	7 x				X			╞┼╴	X			+	$\square$	X	X	+	╀			t-t	-	T <sub>N</sub>	V			1
MW-10 222152	C	100	7 - X			+	X		+	┢╌┢╴	X	1	+	-	Н	X	x	┢	-		-	+-+	+	IN	V	-		
Comments/Special Instructions:		100														$\sim$	Labor	rato	ry C	omme	ents:					-		1
Relinquished by:	12 23	202	Time	Receiv	ved by	y:		-					Dat	e		Time	Te Sa V( <u>QC De</u> Level (	emp amp OCs elive 2	eratu de Co Free <u>rable</u> :	ntain Int	on R ers Ir eadsj se cir	eceipt itact? pace? <u>cle on</u>		2,8	N N			
Relinquished by.	Date		Time	Receiv	/ed by	v V	~		1			12/	Dat 25/	e 20	Ø	Time P	Level 4 Site Sp Projec	3 4 Deci t Ma	fic - if inage	yes, p rorati	lease lach s	pre-s	chedu instru	ule w/ uctior	' SUTH	ERLAN	1D	

								44276
SUTHERLAND ENVIRONMEN	TAL 25	15 5th Avenu	ie South	Ph	hone: 205 581 9500			SPHERE 3
COMPANY, INC.	Bi	rmingham, A	L 35233		Fax: 205 581 9504			ENGINEERING, INC
Consultant Name:	SPHERE 3 Engir	neering, Inc.					Page #: Page 2 of 2	
Address:	3433 Sierra Drive	)				In	voice To: SPHERE 3 Engin	eering, Inc.
City/State/Zip:	Hoover, Alabama	35216					eport To: greg@sphere3.co	om; jon@sphere3.com
Client: Consultant Project Mar:	Krish-Sal, LLC						Project #: KSSSS.09	
Consultant Telephone Number:	(205) 403 3317		Fa	v No : (20	05) 403 3318		ility ID #: Stop p Shop Sho	
Sampler Name: (Print)	(200) 403.3511	12 Jaco		1 100. (20	00/403.3318	Site	Address: 1945 Almon Stree	at
Sampler Signature:		All	Dogle	-	/	City. Coun	tv. State: Heflin, Cleburne (	County Alabama
				Pro	eservative	Matrix	Apaluze For:	
		υ						
Sample ID or Field ID           MW-11         222.153           MW-DW1         222.154           DUP-1         222.155           TEMPERATURE BLANK	Date Sampled	Time Sampled No. of Containers Shipped X X X Grab	Composite Field Filtered	Methanol       Nodium Bisulfate       X     X       HCI (Blue Label)	NaOH (Orange Label)       H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)       H <sub>2</sub> SO <sub>4</sub> Class(Yellow Label)       H <sub>2</sub> SO <sub>4</sub> Class(Yellow Label)       NOne (Black Label)       X     X       X     X       Master	Drinking Water       Collection       Studge       Studge       Studge       Soil       Soil       State       State <td></td> <td>Z     Z     Z     TAT request (in Bus. Day       C     -     -     -       C     -     -     -       Due Date of Report</td>		Z     Z     Z     TAT request (in Bus. Day       C     -     -     -       C     -     -     -       Due Date of Report
TEMPERATORE BEANIN				╉┼┾┽				
			+ +	┨┼╌┝╍╆	<b>┝╌╀╌┼╌╂╌┤╌┨</b> ╶┤╌	╶┼┼┼╂╶┼	┽╶┨╴╁╴╁╌╅┉┪╍┅┼┈╸	╈╋╋╋
			┾╌┿──	╉┼┼┤	┝┼┼┼┦┠┼╌	<del>╶┼╶┼╌┼</del> ╌┠┈┼╴		
				┨┄╎╺╎╴┤	┟┦┼╿┨┦╴	╶┼┦┈┼┫┈┼╸		┝┤┠╁┾┼╼╼╼╼╼
					┝┼┼┟╎┛╎─	┥┥┥		┝╺╋╌╋╌╋╌┥╴
·								
Comments/Special Instructions:	Date 12 24 25	Time MC 102 X	Received t	by:		Date Time	Laboratory Comments: Temperature Upon Ri Sample Containers In VOCs Free of Headsp <u>QC Deliverables (please cir</u> Level 2	eceipt: 2, 2° ttact? N bace? N <u>cle one)</u> N
Relinquished by:	Date	Time		N.	u/ 1	Date Time <b>123/</b> 20 1018	Level 3 Level 4 Site Specific - if yes, please Project Manager or attach s	pre-schedule w/ SUTHERLAND pecifc instructions



	HISTORICAL DISSOLVED COC ANALYTICAL SUMMARY STOP n SHOP SHELL (UST15-08-03) MONITOR WELL DATE (mg(l)) (mg(l)) (mg(l)) (mg(l)) (mg(l)) (mg(l))													
				ETHYL-	TOTAL		NAPH-							
MONITOR		BENZENE	TOLUENE	BENZENE	XYLENES	MTBE	THALENE							
WELL	DATE	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)							
MW-1	11/4/2015	0.892	0.004	0.002	0.184	0.830	0.053							
	4/27/2016	0.625	0.007	0.005	0.121	0.463	0.018							
	1/17/2019	1.240	0.017	0.018	0.061	2.550	0.102							
	12/30/2019	0.884	0.003	0.003	0.045	2.290	0.054							
	2/28/2020	0.580	0.014	0.017	0.051	0.595	0.015							
	6/19/2020	0.234	< 0.001	0.005	0.012	0.268	0.038							
	9/10/2020	0.159	<0.001	<0.001	0.009	0.138	0.011							
	12/18/2020	0.236	0.004	0.008	0.017	0.222	0.017							
SSILS GRP	44/4/0045	2.240	448.000	169.000	175.000	8.960	8.960							
IVIVV-Z"	11/4/2015	0.631	0.046	0.018	0.413	0.190	<0.005							
	4/27/2016	3.140	0.057	0.164	3.230	4.540	0.091							
	1/17/2019	0.620	0.021	0.004	0.150	0.479	<0.005							
	12/30/2019	0.335	0.010	0.003	0.070	0.377	<0.005							
	2/20/2020	0.323	0.007	0.002	0.050	0.370	<0.005							
	6/10/2020	2 300	0.000	0.002	1 360	5.520	0.121							
	0/19/2020	2.300	0.053	0.220	1 380	5.520	0.121							
	0/10/2020	1 270	0.055	0.220	0.360	2,260	0.110							
	12/18/2020	0 709	0.033	0.005	0.000	1 160	0.022							
SSTLs GRP	12/10/2020	2 2 50	450 000	169,000	175 000	9.010	9.010							
MW-3	11/4/2015	0.002	< 0.001	< 0.001	0.005	0.001	< 0.005							
	DUP-1	0.002	< 0.001	<0.001	0.006	0.001	<0.005							
	4/27/2016	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.005							
	1/17/2019	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.005							
	DUP-1	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005							
	12/30/2019	0.002	<0.001	<0.001	< 0.003	0.008	< 0.005							
	2/28/2020	<0.001	<0.001	<0.001	< 0.003	<0.001	< 0.005							
	6/19/2020	<0.001	<0.001	<0.001	< 0.003	<0.001	<0.005							
	9/10/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005							
	12/18/2020	<0.001	<0.001	<0.001	< 0.003	<0.001	<0.005							
SSTLs GRP		1.250	251.000	169.000	175.000	5.010	5.010							
MW-4	11/4/2015	<0.001	<0.001	<0.001	< 0.003	0.012	< 0.005							
	4/27/2016	0.006	0.004	<0.001	0.011	0.012	<0.005							
	1/1//2019	<0.001	<0.001	< 0.001	< 0.003	0.009	<0.005							
	12/30/2019	<0.001	<0.001	<0.001	< 0.003	0.005	<0.005							
	2/28/2020	<0.001	<0.001	<0.001	0.003	0.006	<0.005							
	0/19/2020	<0.001	<0.001	<0.001	<0.003	0.004	<0.005							
	9/10/2020	<0.001	<0.001	<0.001	<0.003	0.003	<0.005							
SSTISGRP	12/10/2020	0.753	151,000	105.000	175.000	3.010	3 010							
MW/-5	1/27/2016	0.007	0.004	<0.001	0.008	0.005	<0.005							
	1/17/2010	<0.007	<0.004	<0.001	<0.000	<0.003	<0.005							
	12/30/2019	<0.001	<0.001	<0.001	<0.000	<0.001	<0.000							
	2/28/2020	<0.001	< 0.001	< 0.001	< 0.003	<0.001	<0.005							
	6/19/2020	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.005							
	9/10/2020	<0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.005							
	12/18/2020	<0.001	<0.001	<0.001	< 0.003	<0.001	< 0.005							
SSTLs GRP		0.205	41.000	28.700	175.000	0.820	0.820							

	HISTORICAL DISSOLVED COC ANALYTICAL SUMMARY - Continued STOP n SHOP SHELL (UST15-08-03)													
		STOP	SHOP SHEL		3-03)	Г								
MONITOR		DENZENE		EIHYL-		MTDE								
WELL	DATE				(mg/l)									
	0ATE			(IIIg/L)		(IIIg/L)	(IIIg/L)							
10100-0	4/27/2016	0.001	0.001	<0.001	0.003	<0.001	<0.005							
	1/17/2019	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005							
	12/30/2019	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005							
	DUP-1	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005							
	2/28/2020	<0.001	<0.001	0.002	0.012	<0.001	<0.005							
	6/19/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005							
	9/10/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005							
	12/18/2020	<0.001	<0.001	<0.001	<0.003	<0.001	< 0.005							
SSILS GRP	4/07/0040	0.197	39.400	27.600	175.000	0.787	0.787							
MVV-7	4/27/2016	3.120	2.550	0.590	4.580	2.700	0.409							
	1/17/2019	2.670	0.058	0.162	0.885	3.720	0.037							
	12/30/2019	1.060	0.007	0.045	0.084	3.680	0.018							
	2/28/2020	1.220	0.090	0.394	1.960	2.820	0.065							
	6/19/2020	1.390	0.060	0.225	0.896	2.910	0.006							
	9/10/2020	1.700	0.082	0.318	1.160	4.420	0.122							
	12/18/2020	1.710	0.034	0.242	0.730	3.900	0.069							
SSTLs GRP		0.437	87.400	61.200	175.000	1.750	1.750							
MW-8	4/27/2016	< 0.001	< 0.001	< 0.001	< 0.003	<0.001	< 0.005							
	1/17/2019	< 0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.005							
	12/30/2019	< 0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.005							
	2/28/2020	< 0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.005							
	6/19/2020	< 0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.005							
	9/10/2020	< 0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.005							
	12/18/2020	< 0.001	<0.001	<0.001	< 0.003	<0.001	< 0.005							
SSTLs GRP		0.534	107.000	74.800	175.000	2.140	2.140							
MW-9	4/27/2016	0.045	0.022	0.005	0.033	0.006	< 0.005							
	DUP-1	0.043	0.021	0.004	0.030	0.005	<0.005							
	1/17/2019	0.021	0.005	0.002	0.016	0.005	< 0.005							
	12/30/2019	0.020	0.004	0.002	0.018	0.003	< 0.005							
	2/28/2020	0.061	0.013	0.005	0.033	0.007	< 0.005							
	6/19/2020	0.016	<0.001	<0.001	0.005	0.004	<0.005							
	9/10/2020	0.015	0.002	<0.001	0.007	0.004	< 0.005							
	12/18/2020	0.036	0.003	0.002	0.015	0.005	<0.005							
SSTLs GRP		1.810	362.000	169.000	175.000	7.240	7.240							
MW-10	1/17/2019	0.008	0.108	0.410	2.910	<0.001	0.153							
	12/30/2019	0.004	0.102	0.270	1.630	0.002	0.161							
	2/28/2020	0.008	0.138	0.494	2.330	<0.001	0.108							
	6/19/2020	0.009	0.104	0.524	2.140	0.003	0.273							
	9/10/2020	0.022	0.145	0.535	2.020	0.033	0.278							
	DUP-1	0.022	0.137	0.515	1.970	0.034	0.283							
	12/18/2020	0.007	0.152	0.570	1.810	0.009	0.274							
	DUP-1	0.007	0.151	0.574	1.820	0.010	0.261							
SSTLs GRP		0.172	34.400	24.100	175.000	0.688	0.688							
MW-11	1/17/2019	0.009	< 0.001	< 0.001	< 0.003	0.044	< 0.005							
	12/30/2019	0.027	<0.001	<0.001	<0.003	0.200	<0.005							
	2/28/2020	0.002	<0.001	0.001	0.006	0.005	<0.005							
	6/19/2020	0.044	0.001	<0.001	< 0.003	0.165	0.013							
	9/10/2020	0.056	0.001	<0.001	< 0.003	0.418	0.008							
	12/18/2020	0.066	0.002	<0.001	< 0.003	0.280	0.008							
SSTLs GRP		0.157	31.400	22.000	175.000	0.628	0.628							

	HISTORICAL DISSOLVED COC ANALYTICAL SUMMARY - Concluded STOP n SHOP SHELL (UST15-08-03)													
MONITOR WELL	DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	TOTAL XYLENES (mg/L)	MTBE (mg/L)	NAPH- THALENE (mg/L)							
MW-DW1	4/27/2016 1/17/2019 12/30/2019 2/28/2020 6/19/2020 9/10/2020 12/18/2020	0.018 0.003 0.003 0.002 <0.001 <0.001 <0.001	0.004 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	0.016 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003	0.023 0.007 0.004 0.003 0.001 <0.001 <0.001	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005							
SSTLs GRP		2.080	415.000	169.000	175.000	8.300	8.300							
PRW-1	2/28/2020 9/10/2020	<0.001 <0.00029	<0.001 <0.00035	<0.001 <0.00032	<0.003 <0.00091	<0.001 <0.00025	<0.005 <0.00062							

Note:

\* - source well mg/L – milligrams per liter NA – Not Analyzed SSTLs GRP – Site Specific Target Level protective of the Groundwater Resource Protection area Concentrations highlighted in **bold** type exceed applicable SSTLs.



### **SPHERE 3** ENGINEERING, INC MONITOR WELL CROSS SECTION



CLIENT:	Joe Smith Oil Company	Project No.:	ABC.XYZ.02
LOCATION:	Joe's UST Facility	Top of Riser Elevation:	1024.36 feet
	1234 Main Street	Ground Surface Elevation:	1024.89 feet
	Anytown, Alabama	Screened Interval:	1022.32-1012.58 ft.
		Date Installed:	01/04/21





## SPHERE 3 ENGINEERING, INC

3433 Sierra Drive • Hoover, Alabama 35216 • Phone: (205) 403-3317 • Fax: (205) 403-3318

#### SITE HEALTH and SAFETY PLAN MEME-Supplemented Natural Attenuation Monitoring

- SUBMIT TO: Mr. Greg Hoagland, P.E.; SPHERE 3 Engineering, Inc.; President
- PROJECT NAME: Krish-Sai, LLC Stop n Shop Shell Corrective Action System Installation

**PROJECT NUMBER:** KS.SSS.XX (where XX = the Cost Proposal number)

DESCRIPTION OF WORK: Recovery Well Installation, MEME Events, Groundwater Sampling

- CLIENT CONTACT(S): Mr. Mihir Patel Krish-Sai, LLC 21 Teal Drive Oxford, Alabama 36203
- PROJECT SITE LOCATION: Stop n Shop Shell 1945 Almon Street Heflin, Alabama 36264 Phone: (256) 463-2500
- PROJECT SITE CONTACTS: Mr. Phillip Johnson Samco/Express Mart 1237 W. Hamric Drive Oxford, Alabama 36203

**PROJECT SUBCONTRACTORS:**Brown Remediation, Inc.<br/>Mr. Tom Brown<br/>Phone: (404) 256-0667Technical Drilling Services, Inc.<br/>Ms. Britette Lee<br/>Phone: (205) 758-7454

Phone: (256) 591-6653

- PROJECT MANAGER: Greg Hoagland, SPHERE 3 Engineering, Inc. Phone: (205) 403-3317 Cell: (205) 288-4896
- ON-SITE MANAGER(S): Tres Bond, SPHERE 3 Engineering, Inc. Phone: (205) 403-3317 Cell: (205) 288-7460

Jimmy Johnson, SPHERE 3 Engineering, Inc. Phone: (205) 403-3317 Cell: (205) 288-7073

WORK SCHEDULE: Generally 7:00 a.m. through 5:00 p.m. each visit

Stop n Shop Shell Health and Safety Plan (UST15-08-03) Page 2 of 4

#### SITE DESCRIPTION:

Located in Heflin, Alabama, the site and contiguous properties are of commercial and residential designation. The facility property is improved with an active convenience store, retailing sundry items and motor fuels. Refer to attached area map showing location.

#### PLANNED SITE ACTIVITIES:

- 1. Recovery well installation;
- 2. MEME events, and;
- 3. Groundwater sampling.

#### KNOWN CHEMICAL HAZARDS:

			TWA	TLV
Component	Location	<u>Media</u>	<u>TLV*</u>	STEL**
Petroleum Distillates	All Site	SWA	400 ppm	
Gasoline	All Site	SWA	300 ppm	500 ppm
Benzene	All Site	SWA	0.1 ppm	5 ppm
Toluene	All Site	SWA	100 ppm	150 ppm
Xylenes	All Site	SWA	100 ppm	150 ppm
Ethylbenzene	All Site	SWA	100 ppm	125 ppm

Notes:

Values per American Conference of Government Industrial Hygienists (ACGIH) or, 20 CFR Part 1910 (OSHA) whichever is most stringent.

S - soil; W - water; A - air

- The Threshold Limit Value (TLV) is the time weighted average concentration for a normal eight-hour day and forty-hour work week, to which all workers may be repeatedly exposed, day after day, without adverse effect.
- \*\* The Short-Term Exposure Limit (STEL) is the concentration at which workers can be exposed continuously for a short period of time. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times in an eight-hour period. There should be at least one hour between each 15 minute exposure at the STEL.

#### OTHER SUSPECTED CHEMICAL HAZARDS:

No other known. If encountered or suspected, contact Office Safety Manager.

#### **CONCENTRATION MEASUREMENT METHODS:**

Activity	Location	Detector*	Survey Method**
Air/Gases Sampling	All Site	PID & LEL	Work area breathing zone
Borehole Installation and Sampling	All Site	PID	Work area breathing zone
Groundwater Sampling	Specific	PID	Sources

Notes:

PID - Photoionization Detector.

f Instruments to be calibrated daily.

\*\* Readings to be taken at a minimum of one per hour and more frequently in more contaminated areas or during critical activities.

#### ACTION LEVELS:

		Action	
<u>Activity</u>	<b>Location</b>	Level	Precaution
All On-Site	All Site	>50 ppm	Cease activities until levels decrease

#### POTENTIAL PHYSICAL HAZARDS:

- 1. Overhead electric lines.
- 2. Underground electric and natural gas lines, gasoline product transfer lines, etc. (Note: all known utility line locations will be marked by a line-locating company prior to initiating the site activities).
- 3. Falling objects from the drilling rig (i.e. augers, drill rods, slide hammer, etc.).
- 4. Potential for explosive conditions.

#### **REQUIRED HEALTH AND SAFETY APPAREL AND PROCEDURES:**

All project activities will be conducted under OSHA Health & Safety Level D. Protective equipment will include:

- 1. Hard hat;
- 2. Safety glasses;
- 3. Steel toe safety boots;
- 4. Orange Safety Vest with Reflective Tape;
- 5. Sleeved shirt, long pants (coveralls optional), and;
- 6. Latex and/or nitrile gloves, if phase material encountered (Tyvek Suits optional).

Smoking is prohibited at the worksite and throughout the facility property. Explosion proof or intrinsically safe equipment must be used in areas designated as hazardous (potentially explosive). At least one class ABC fire extinguisher will be placed in a safe area, accessible to site activities. Access to the work area will be restricted except to essential personnel. A safe distance will be maintained between the work area and public roads and appropriate traffic control will be implemented.

#### CONTINGENCY PLANS:

If the vapor levels in the general work area are found to meet or exceed any of the action levels, then work will be discontinued and the work site evacuated as directed by the Project Manager (SPHERE 3 representative). The work area periphery will be monitored by the On-Site Manager and work will resume when vapor levels drop below the action levels. If vapor levels continue to meet or exceed action levels, work will cease and the work site will be secured and evaluated. Work shall not continue until the Site Safety Plan is appropriately revised to meet the new conditions.

Should persistent safety hazards, accident or fire occur, take appropriate immediate action if required (i.e., extinguish the fire, give first aid, etc.) and contact emergency personnel immediately, and then contact appropriate SPHERE 3 Safety personnel.

This plan does not override any existing client or site-specific safety plan. All subcontractors used on these projects are required to submit safety plans applicable to their prescribed activities.

Stop n Shop Shell Health and Safety Plan (UST15-08-03) Page 4 of 4

#### **EMERGENCY CONTACTS AND PROCEDURES:**

Should any situation or unplanned occurrence require outside or support services, the appropriate contact from the following list should be made.

## In Case of Emergency, Dial 911, other contacts listed below:

Agency	Person to Contact	<b>Telephone</b>
Fire & Rescue	Emergency Dispatcher	911
Police:	Emergency Dispatcher	911
Underground Utilities	Receptionist	1-800-292-8525
SPHERE 3 Project Manager	Greg Hoagland Cell	(205) 403-3317 (205) 288-4896