#### **CORRECTIVE ACTION PLAN (CP-9)**

Mr. Rodger Pitts Pitts Grocery #4 Center Hill ADEM Facility ID: 20720-043-005046 UST Incident Number: UST20-02-02 28705 Highway 91 Hanceville, Alabama 35077 (Cullman County)

May 18, 2022

Prepared for: Mr. Rodger Pitts 23690 Highway 91 Hanceville, Alabama 35077

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

SPHERE 3 File: PITTS.G#4CH.09



#### 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** 

May 18, 2022

### TABLE OF CONTENTS

UST RELEASE FACT SHEET 1	1
ADEM UST SITE CLASSIFICATION SYSTEM CHECKLIST	
INTRODUCTION	4
SUMMARY OF PREVIOUSLY CONDUCTED SITE ACTIVITIES       5         Site Location and Description       5         Description of Release       5         Geologic and Hydrogeological Setting       5         Area Water Wells and Other Potential Environmental Receptors       6         Compilation of Previously Conducted Site Remediation Activities       7         Compilation of Free Product Data from Site Investigations       7         Compilation of Groundwater Data       6         Summary of the ARBCA Evaluation as Compared to Current Data       6         Concentration and Distribution of Chemicals of Concern Exceeding SSTLs       10	5556777990
CORRECTIVE ACTION PLAN       10         Source Area Remediation       10         Estimated Duration of Clean-up       12         Implementation Cost Proposals       12	2 2 2
PERSONNEL AND SUBCONTRACTOR QUALIFICATIONS	
<u>No</u> <b>TABLES</b> Chemicals of Concern in Soils Analytical Summary	
FIGURES         Area Vicinity (Topographic) Map       1         Site Vicinity Map (Aerial Photo)       2         Geologic Map       3         Site Plan       4         Soils Chemicals of Concern (COCs) Concentrations Map       5         Potentiometric Surface Elevation Map (1/14/2022)       6         Dissolved COCs Concentrations Map (1/14/2022)       7         Hydrogeologic Panel Diagram       8         Proposed Recovery Monitor Well Location Map       9	2345678
APPENDICES Historical Monitor Well Gauging Worksheets	3

<u>Page</u>

#### UST RELEASE FACT SHEET

#### GENERAL INFORMATION:

SITE NAME: Pitts Grocery #4 Center Hill

ADDRESS: 28705 Highway 91, Hanceville, Cullman County, AL

FACILITY I.D. NO.: 20720-043-005046

UST INCIDENT NO.: UST20-02-02

#### **RESULTS OF EXPOSURE ASSESSMENT:**

How many private drinking water wells are located within 1,000 feet of site?	<u>One</u>
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?

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**Residential/Agricultural** 

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CONTAMINATION DESCRIPTION:
Type of contamination at site: {X} Gasoline {X} Diesel { } Waste Oil { } Kerosene { } Other:
Free product present in wells? {X} Yes { } No
Max. benzene/MTBE/naphthalene concentrations measured in soil: 0.452 mg/kg benzene / 0.068 mg/kg MTBE / 0.311 mg/kg naphthalene
Max. benzene/MTBE/naphthalene concentrations in groundwater: 1.630 mg/L benzene / 0.374 mg/L MTBE / 1.190 mg/L naphthalene

Corrective Action Plan (CP-9) Pitts Grocery #4 Center Hill ADEM Facility ID No. 20720-043-005046; UST20-02-02 28705 Highway 91; Hanceville, Alabama 35077 Page 2 of 13

#### 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:	Pitts Grocery #4 Center Hill
SITE ADDRESS:	28705 Highway 91
	Hanceville (Cullman County) Alabama 35077
FACILITY I.D. NO.:	20720-043-005046
UST INCIDENT NO.:	UST20-02-02
OWNER NAME:	Mr. Rodger Pitts
OWNER ADDRESS:	23690 Highway 91, Hanceville, Alabama 35077
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.		
A.2	Vapor concentrations at or approaching explosive levels are present in subsurface utility system(s), but no buildings or residences are impacted.		
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.		$\square$
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.	$\boxtimes$	

Corrective Action Plan (CP-9) Pitts Grocery #4 Center Hill ADEM Facility ID No. 20720-043-005046; UST20-02-02 28705 Highway 91; Hanceville, Alabama 35077 Page 3 of 13

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.		
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.		
CLASSIFICATION	DESCRIPTION	YES	NO
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.		
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:

Corrective Action Plan (CP-9) Pitts Grocery #4 Center Hill ADEM Facility ID No. 20720-043-005046; UST20-02-02 28705 Highway 91; Hanceville, Alabama 35077 Page 4 of 13

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:	C.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 prepared for Mr. Rodger Pitts' facility known as Pitts Grocery #4 Center Hill, located at 28705 Highway 91, Hanceville, Alabama (Figures 1 and 2). The subject facility has been impacted by a release of gasoline and/or diesel fuel, as identified below:

Facility I.D.: 20720-043-005046 Incident No.: UST20-02-02

#### **CAP Objectives**

The objective of the CAP is to assess that the dissolved Chemicals of Concern (COCs) concentrations and free product (if present), 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 the results of the Alabama Risk Based Corrective Action (ARBCA) Tiers 1 and 2 evaluations report submitted by SPHERE 3 (dated September 1, 2021, and approved by the ADEM in a letter dated October 18, 2021), RNA supplemented with MEMEs appears to be a viable and economical method of corrective action (CA). 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 Site Specific Target Levels (SSTLs) established by the ARBCA Tier 2 evaluation.

#### SUMMARY OF PREVIOUSLY CONDUCTED SITE ACTIVITIES

#### **Site Location and Description**

The subject facility is located in the southwest ¼ of Section 11, Township 11 South, Range 2 West and at 34°05′23.30″ North Latitude and 86°43′30.86″ West Longitude (Figure 1). The physical address of the facility is 28705 Highway 91, Hanceville, Cullman County, Alabama. Land surface elevation at the site is approximately 606 feet above mean sea level (amsl).

The facility property is improved with a currently vacant convenience store building. Gasoline and diesel motor fuels formerly were stored and dispensed at the facility. According to the Alabama Department of Environmental Management (ADEM) Underground Storage Tank (UST) Site Classification System Checklist, the facility has a ranking of C.2.

#### **Description of Release**

SPHERE 3 Engineering, Inc. (SPHERE 3) was contracted by Mr. Rodger Pitts to provide Response Action Contractor services for his UST facility known as Pitts Grocery #4 Center Hill in Hanceville, Alabama. The CAP presented herein was requested by the ADEM in a letter dated May 24, 2021.

A UST Closure Site Assessment Report was submitted by others on December 27, 2019. The closure included the excavation and removal of two steel 3,000-gallon gasoline USTs, one steel 2,000-gallon diesel fuel UST, and associated product piping.

No discrepancies or irregularities were noted during operation of the UST system, and the volume of the release is not known.

#### Geologic and Hydrogeological Setting

The subject site is located in the Warrior Basin district of the Cumberland Plateaus section of the Appalachian Plateaus province of Cullman County, Alabama. The Warrior Basin district consists of a vast, stream-dissected, peneplain of moderate relief that is underlain predominantly by sandstone and shale. Altitudes range from about 600 feet to 1,100 feet and drainage is primarily into the Mulberry Fork of the Black Warrior River.

Other than stratigraphic units which dip gently toward the southwest, there is little geologic structure in this vicinity. The primary structural features are associated with very minor, localized folding. No large scale faults are depicted on the geologic map for this area.

The target property is situated in an uncomplicated geologic area that is underlain by the Pennsylvanian-age Pottsville Formation. The Pottsville Formation consists of consolidated and tightly-cemented interbeds of quartzose sandstone, shale, siltstone, conglomerate, clay, and several bituminous coal beds. The thickness of this unit ranges from 375 to 4,000 feet (thickens toward the south). The formation is included in the Pottsville aquifer which is the most extensively utilized aquifer in this vicinity. The aquifer is utilized as a source of public and private water well supplies. The City of Hanceville, which supplies potable water to the target property vicinity, operates one well completed within the Pottsville Formation.

Thirteen soil borings (SB-1 through SB-12, and SB-DW1) have been installed as the site as part of the Preliminary and Secondary Investigations. These borings encountered up to 23 feet of natural (unconsolidated) soil materials. The upper 10 feet is generally comprised of gray-brown, sandy, organic-rich, clay containing rock fragments and iron. The middle interval features yellow, yellow-orange, tan-orange, and orange-brown, sandy clay and a layer of clayey sand, which includes thin, weathered lenses of gray shale. The basal five feet features orange, sandy clay underlain by much firmer seams of gray, thin-bedded, shale. Auger refusal was encountered in all borings except SB-12, at depths ranging from approximately 12 feet below ground surface (bgs) in soil boring SB-9 to 23 feet bgs in soil boring SB-DW1.

All of the soil boring locations encountered a saturated water-bearing zone which generally coincided with the five-foot interval above the contact between the natural soils and the underlying bedrock surface. Soil borings SB-1 through SB-4 were each terminated at approximately 24 feet bgs. Soil borings SB-5 through SB-8, SB-10, SB-11, and SB-12 were each terminated at approximately 20 feet bgs. Soil borings SB-1 through SB-9 was terminated at approximately 12 feet bgs. Soil borings SB-1 through SB-12 were completed as Type II monitor wells MW-1 through MW-12, respectively.

Soil boring SB-DW1 was terminated at approximately 44 feet bgs, and was completed as Type III monitor well MW-DW1. A generalized interpretation of the potentiometric data suggests a groundwater flow direction to the south-southwest.

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

The subject property is located at the northwestern corner of the intersection of Alabama Highway 91 and Cullman County Road 747, two and one-half miles east of the City of Hanceville, Alabama. Residential properties, wooded tracts, and undeveloped land bound the property to the north. The northwest-southeast trending (Cullman) County Road 747, residential and wooded tracts and the Mulberry Fork River bridge bound the property to the east. Bounding the property on the south is the northeast-southwest trending Alabama Highway 91. Across the highway is a vacant residential property, undeveloped land, and the distant Center Hill Baptist Church and cemetery. Bounding the property on the west is a northerly flowing intermittent tributary, residential properties, and a distant vacant commercial building (screen printing). The surrounding land use is primarily light-residential, wooded, and pasture land. See Figure 2.

An inventory of private water supply wells revealed one potential private water supply well located within 1,000 feet of the target property. The possible well was observed in a decorative enclosure in the front yard of the residential dwelling located across County Road 747, approximately 100 feet east-northeast of the site. The area surrounding the target property is supplied with water by the Hanceville Water Department. The potential well was covered with a metal container and appears to be disconnected and not used as a primary source of water.

An inventory public water supply wells revealed no public water supply wells located within one mile of the facility. The inventory consisted of a telephone interview with the Hanceville Water Board (Mr. Nathan Finley).

The City of Hanceville obtains its public water supply from a single public water supply well. The well is located near the railroad track on the east side of Hanceville (Steppville community), about 2-1/2 miles west-southwest of the target property. The treatment plant is located adjacent to that well location. The Hanceville Water Board water main truncates service in the southwest corner of the intersection. The City of Cullman operates a water main that provides water to the customers along the east side of County Road 747 and also extends a line south toward the Shrine of the Blessed Sacrament.

Underground utilities identified on, or adjacent to, the target property include only a telecommunication line, the water service line, and the septic tank system. The water supply main (Hanceville Water Board) traverses east-west along the south side of Alabama Highway 91. The main is constructed of 4-inch diameter, PVC material. The service line traverses north, beneath the highway, to a meter located near the southeast corner of the store. The electrical, local telephone service and cable television lines are located overhead. Electrical and telephone service enter the southeast corner of the building from a utility pole near that same location. There is no natural gas utility to this vicinity (LP gas tank). There is no municipal sanitary sewer. The property includes a septic tank (along the western side of the building) and field distribution system (extending to the west and northwest from the tank). See Figure 4.

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

To date, CA activities conducted as a result of the incident include the soil and groundwater sampling activities associated with the Preliminary and Secondary Investigations, and interim groundwater monitoring events. These investigations were implemented to define the source area and extents of the subsurface COCs, and to evaluate the stability and attenuation of the dissolved COCs plume.

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

A measurable thickness of free product has been detected in monitor well MW-1 on four occasions, including October 16, 2020, July 15, 2021, October 12, 2021, and January 14, 2022. Apparent thicknesses of free product in monitor well MW-1 on these dates were 0.07 feet, 0.01 feet, 0.01 feet, and 0.02 feet, respectively. A measurable thickness of free product has been detected in monitor well MW-2 on two occasions, including October 16, 2020 and July 15, 2021. Apparent thicknesses of free product in monitor well MW-2 on these dates were 0.38 feet and 0.03 feet, respectively. During these four site visits, the free product was recovered by manual bailing. To date, a total of approximately 0.3 gallons of free product have been recovered from monitor wells MW-1 and MW-2. A measurable thickness of free product has not been detected in any other monitor well at the site to date. 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 26 soil samples were submitted for laboratory analysis. Each soil sample was analyzed for COCs benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tert-butyl ether (MTBE) using Environmental Protection Agency (EPA) method 8260B, and for polynuclear aromatic hydrocarbon (PAH) compounds using EPA Method 8270C. A summary of the results of the soil analyses is presented in Table 1 and depicted on Figure 5. Copies of the historical soil laboratory analytical reports are presented as Appendix B.

Corrective Action Plan (CP-9) Pitts Grocery #4 Center Hill ADEM Facility ID No. 20720-043-005046; UST20-02-02 28705 Highway 91; Hanceville, Alabama 35077 Page 8 of 13

TABLE 1         PITTS GROCERY #4 CENTER HILL (UST20-02-02)							
	COCs IN SOILS ANALYTICAL SUMMARY						
	DEPTH	BENZENE	TOLUENE	BENZENE	XYLENES	MTBE	THALENE
BORING	(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-1	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	<0.005	0.090	0.371	0.009	<0.050
SB-2	10	<0.005	<0.005	<0.005	0.020	<0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-3	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-4	5	0.012	<0.005	0.010	0.026	0.021	0.311
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-5	10	< 0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-6	10	< 0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-7	5	< 0.005	<0.005	0.055	0.196	<0.005	<0.050
	10	<0.005	<0.005	0.007	0.031	<0.005	<0.050
SB-8	5	0.007	<0.005	0.252	0.343	<0.005	<0.050
	10	0.016	<0.005	1.690	2.590	0.006	<0.050
SB-9	5	< 0.005	<0.005	<0.005	<0.015	<0.005	< 0.050
	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-10	5	< 0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-11	10	< 0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-12	10	< 0.005	<0.005	<0.005	<0.015	<0.005	< 0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-DW1	5	0.452	20.200	28.500	161.000	0.068	< 0.050
	15	<0.005	<0.005	<0.005	0.021	<0.005	<0.050
GRP SSTLs 0.0214 9.110 9.140 158.000 0.0221 1.460							
Note:							

Note:

mg/kg – milligrams per kilogram

**Bold Print** - concentrations listed in **bold** print exceed Site-Specific Target Levels (SSTLs) protective of the Groundwater Resource Protection (GRP) area.

SPHERE 3 prepared an ARBCA Tiers 1 & 2 Evaluation report (September 1, 2021) for the facility under Cost Proposal CP-3. The ARBCA evaluation was conducted to establish SSTLs for COCs in soil and groundwater at the site. The ARBCA evaluation and the calculated SSTLs were approved by the ADEM in a letter dated October 18, 2021.

As shown in Table 1, COCs concentrations exceeding applicable SSTLs protective of the Groundwater Resource Protection (GRP) area were detected in soil samples collected from the

Corrective Action Plan (CP-9) Pitts Grocery #4 Center Hill ADEM Facility ID No. 20720-043-005046; UST20-02-02 28705 Highway 91; Hanceville, Alabama 35077 Page 9 of 13

5 foot depth interval in soil boring SB-DW1.

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

The facility's current monitor well network consists of 12 Type II monitor wells, MW-1 through MW-12, and one Type III monitor well, MW-DW1. See Figure 4.

During the most recent gauging event of January 14, 2022, static groundwater levels in the Type II monitor wells ranged from 3.32 feet below the top of well casing (btoc) in monitor well MW-7 to 10.50 feet btoc in monitor well MW-12. Groundwater elevations as measured in the Type II monitor wells ranged from 592.65 feet above mean sea level (amsl) in monitor well MW-12 to 602.41 feet amsl in monitor well MW-9. The depth to water in Type III monitor well MW-DW1 was 27.08 feet btoc, and the corresponding groundwater elevation was 578.65 feet amsl. Interpretation of these data indicates a predominant groundwater flow direction to the south-southwest, under an average hydraulic gradient of approximately 6.3 feet per 100 feet. During the gauging event of January 14, 2022, free product was detected in monitor well MW-1, at an apparent thickness of 0.02 feet. An immiscible sheen and/or globules of free product also was observed on the water surface within the bailers used to collect groundwater samples from monitor wells MW-2, MW-7, MW-8, and MW-10. Groundwater elevation data for the most recent gauging event are presented on Figure 6.

A measurable thickness of free product has been detected in monitor well MW-1 on four occasions, including October 16, 2020, July 15, 2021, October 12, 2021, and January 14, 2022. Apparent thicknesses of free product in monitor well MW-1 on these dates were 0.07 feet, 0.01 feet, 0.01 feet, and 0.02 feet, respectively. A measurable thickness of free product has been detected in monitor well MW-2 on two occasions, including October 16, 2020 and July 15, 2021. Apparent thicknesses of free product in monitor well MW-2 on these dates were 0.38 feet and 0.03 feet, respectively. Historical monitor well gauging worksheets are provided as Appendix A.

To monitor the dissolved plume, groundwater samples have been collected at 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 indicated in the historical dissolved COCs summary in Appendix D, dissolved COCs concentrations exceeding applicable SSTLs were detected in monitor wells MW-1, MW-2, MW-3, MW-7, and MW-8 during the most recent groundwater sampling event of January 14, 2022.

The dissolved COCs in samples collected during the most recent groundwater sampling event of January 14, 2022 are depicted on Figure 7.

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

SSTLs for soil and groundwater have been generated for the facility through a Tier 2 ARBCA evaluation. As shown in Table 1, the results of the Tier 2 evaluation indicated that COCs concentrations exceeding applicable SSTLs were detected in soil samples collected from soil boring SB-DW1. Specifically, the benzene, toluene, ethylbenzene, xylenes, and MTBE

concentrations in the sample collected from the 5-foot depth interval in soil boring SB-DW1 exceeded applicable SSTLs. 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 SSTLs protective of the GRP area. As shown in this summary, during the most recent groundwater sampling event of January 14, 2022, dissolved benzene concentrations in samples collected from MW-1, MW-2, MW-3, MW-7, and MW-8; dissolved MTBE concentrations in samples collected from MW-1, MW-2, MW-3, MW-7, and MW-8; exceeded applicable SSTLs protective of the GRP area. Free product also was detected in monitor well MW-1, at an apparent thickness of 0.02 feet.

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

The results of the Tier 2 evaluation indicated that COCs concentrations exceeding applicable SSTLs were detected in soil samples collected from the 5-foot depth interval in soil boring SB-DW1. Benzene, toluene, ethylbenzene, xylenes, and MTBE concentrations in this sample were 0.452 milligrams per kilogram (mg/kg), 20.200 mg/kg, 28.500 mg/kg, 161.000 mg/kg, and 0.068 mg/kg, respectively. Applicable SSTLs for these COCs are 0.0214 mg/kg, 9.110 mg/kg, 9.140 mg/kg, 158.000 mg/kg, and 0.0221 mg/kg, respectively.

As shown on the historical dissolved COCs summary in Appendix D, the most recently measured dissolved benzene concentrations in samples collected from MW-1, MW-2, MW-3, MW-7, and MW-8; dissolved MTBE concentrations in samples collected from MW-1 and MW-8, and; dissolved naphthalene concentrations in samples collected from MW-1, MW-2, MW-3, MW-7, and MW-8 exceeded applicable SSTLs protective of the GRP area. During the most recent gauging event, free product also was detected in monitor well MW-1, at an apparent thickness of 0.02 feet.

#### **CORRECTIVE ACTION PLAN**

#### Source Area Remediation

The source area appears to be located in the vicinity of monitor wells MW-1, MW-2, and MW-8. The objectives of source area remediation will be to physically recover any residual free product (if present), and to recover groundwater impacted with dissolved-phase COCs at concentrations exceeding applicable SSTLs. In an effort to achieve these objectives, quarterly Mobile-Enhanced Multiphase Extraction (MEME) events are proposed as the remedial technology. It is assumed that each MEME event will be conducted for a duration of eight hours, and will target the source area.

Two Type II recovery monitor wells will be installed, and will be utilized as extraction points during the MEME events. As shown on Figure 8, the recovery monitor wells will be installed in an effort to mirror existing monitor wells MW-1 and MW-2.

The borings for the proposed recovery monitor wells will be installed using 10.25-inch outside diameter hollow-stem auger drilling equipment, and will be terminated within unconsolidated soils. The boreholes for each recovery monitor well will be terminated at an approximate depth of 20 feet bgs. The recovery monitor wells subsequently will be constructed with 4-inch diameter schedule 40 polyvinyl chloride (PVC) materials, including 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 Type II recovery monitor 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 the construction of a typical Type II monitor well is provided in Appendix E.

During installation of the soil borings for the two proposed recovery monitor wells, soil samples will be collected at five-foot intervals. Each soil sample will be field-screened with a photoionization detector (PID) for volatiles. Two soil samples from each soil boring will be submitted for laboratory analyses of COCs BTEX, MTBE, and naphthalene using EPA Method 5035/8260B, and for moisture content using ASTM Method D2216.

Each proposed recovery monitor well will be allowed 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.

A minimum of 24 hours after development of the two proposed recovery monitor wells, each incident monitor well (including the two new recovery monitor wells) will be purged of an equivalent of three well volumes of groundwater, or until dry. Groundwater samples will then be collected from all wells. Samples collected from monitor well MW-9 will be submitted for BTEX and MTBE analysis using EPA Method 8260B and for PAH analysis using EPA Method 8270C. Samples from all other wells will be submitted for BTEX, MTBE, and naphthalene analysis using EPA Method 8260B. All purge liquids generated during the development and sampling activities will be temporarily stored on-site in a series of steel drums or a polyethylene tote, and will be evacuated and disposed during a subsequent MEME event.

All waste soils generated as part of recovery monitor well installation will be temporarily stored in a lined roll-off box container to be provided by Big Sky Environmental, LLC (Big Sky), of Adamsville, Alabama. 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 to obtain disposal approval for the waste soils. Upon receipt of disposal approval, Big Sky will pick up and transport the waste soils to their Subtitle D landfill facility in Adamsville, Alabama for disposal.

According to the ARBCA evaluation report, the maximum detected xylenes concentration (161 mg/kg) in subsurface soil at the site exceeds the applicable SSTLs for on-site commercial and

construction workers via the indoor inhalation pathway. Due to the presence of free product, the representative concentration of benzene in groundwater (31.700 milligrams per liter) also exceeds the applicable SSTLs for on-site commercial and construction workers via the indoor inhalation pathway. Nevertheless, RNA currently is recommended for the dissolved plume associated with this incident. Consequently, the objective of the CAP will be to reduce the dissolved COCs plume concentrations to levels below the SSTLs protective of the GRP area through a natural degradation process.

To confirm the natural degradation process 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.

#### Estimated Duration of Clean-up

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

- no more than 12 quarterly MEME events will be required to recover any undiscovered source area free product and 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 48 months of CAP implementation.

If, after 48 months of CAP implementation, additional groundwater re-sampling or MEME events are necessary to confirm the dissolved plume degradation, the frequency of the groundwater re-sampling/MEME events may be adjusted to a 4-month interval. If, after 24 months of CAP implementation, the dissolved COCs concentrations at the plume centroid (Type II monitor wells MW-1, MW-2, and MW-8) are not approaching or are not measured at levels below 50% of their current concentrations, an amended CAP may be submitted to propose more aggressive techniques to expedite closure.

#### **Implementation Cost Proposals**

Four quarterly ATTF Cost Proposals, CP-10 through CP-13, previously were prepared and submitted to the ADEM. Each of these Cost Proposals included groundwater sample collection and an 8-hour MEME event. As a note, PAH analysis was included for the groundwater sampling proposed under CP-10 through CP-13. As stated within this CAP, a PAH analysis is only proposed for MW-9 during the comprehensive event under CP-13. Therefore, in the authorization process of CAP Cost Proposals CP-10 through CP-13, ADEM may want to consider authorization without the PAH analysis on the other incident and recovery wells. Additionally, as directed by the ADEM, an addendum to Cost Proposal CP-10 will be submitted for activities associated with the installation and groundwater monitoring of the two proposed recovery monitor wells.

Corrective Action Plan (CP-9) Pitts Grocery #4 Center Hill ADEM Facility ID No. 20720-043-005046; UST20-02-02 28705 Highway 91; Hanceville, Alabama 35077 Page 13 of 13

#### PERSONNEL AND SUBCONTRACTOR QUALIFICATIONS

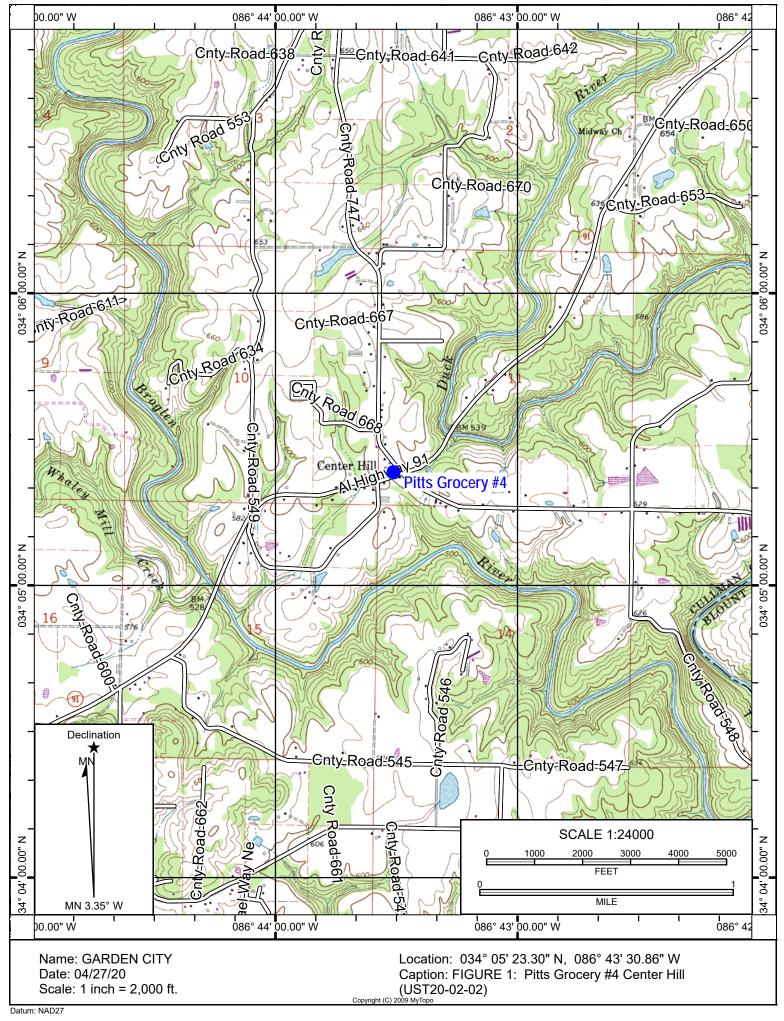
The activities associated with the CAP were completed by the following SPHERE 3 personnel/subcontractors:

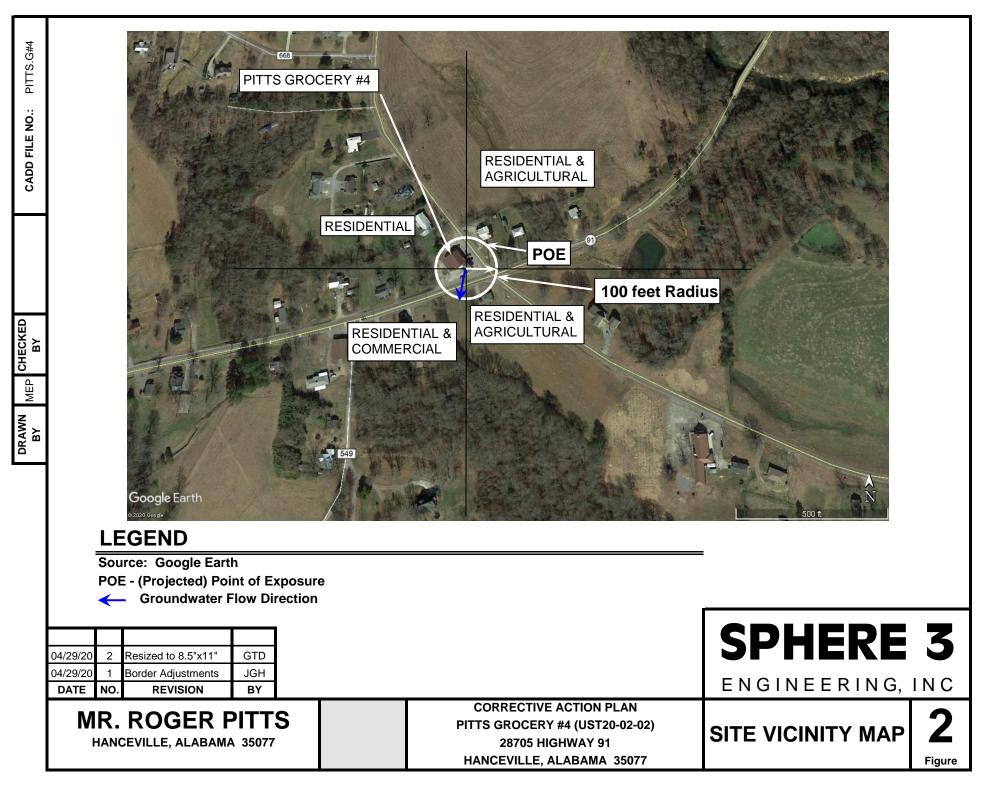
Project Manager:	Greg Hoagland, P.E.
Report Preparation:	Jonathan A. Hunter, P.G. and Greg Hoagland, P.E.
Report Drafting:	Mark Pate
Report Production:	Karen Embry
Report Review:	Greg Hoagland, P.E.

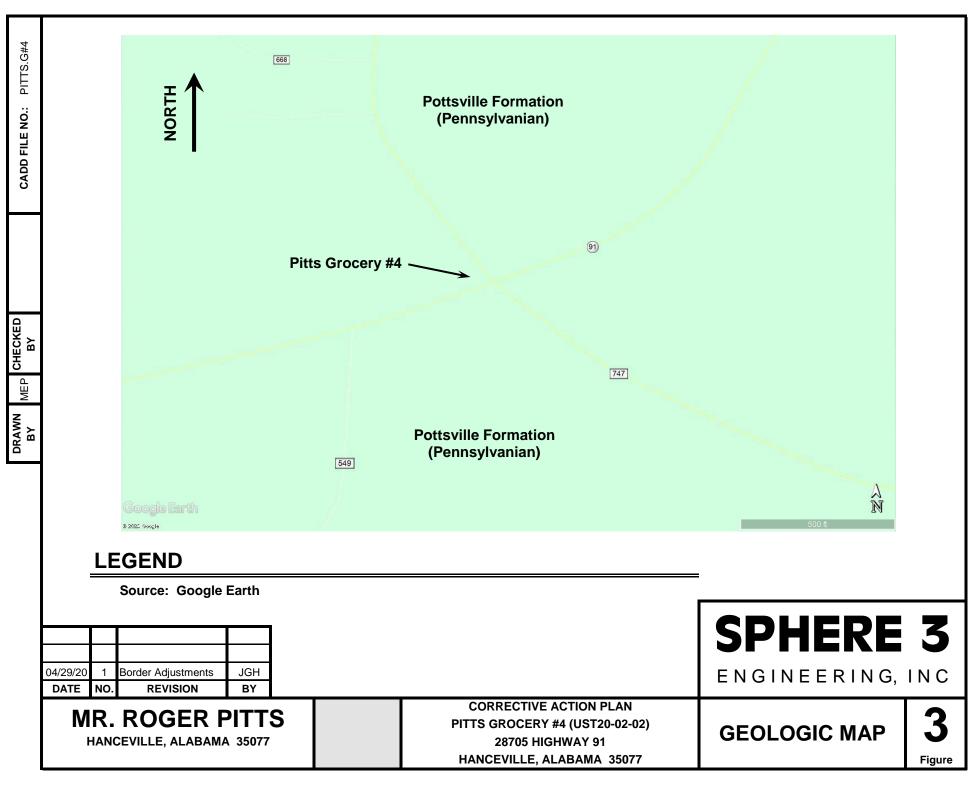
The project was managed and supervised by Greg Hoagland, Professional Engineer. The report was prepared by Mr. Hoagland and Mr. Hunter. Mr. Hunter and Mr. Hoagland have conducted numerous Preliminary and Secondary Investigations, and have prepared numerous CAPs under the Alabama Tank Trust Fund (ATTF).

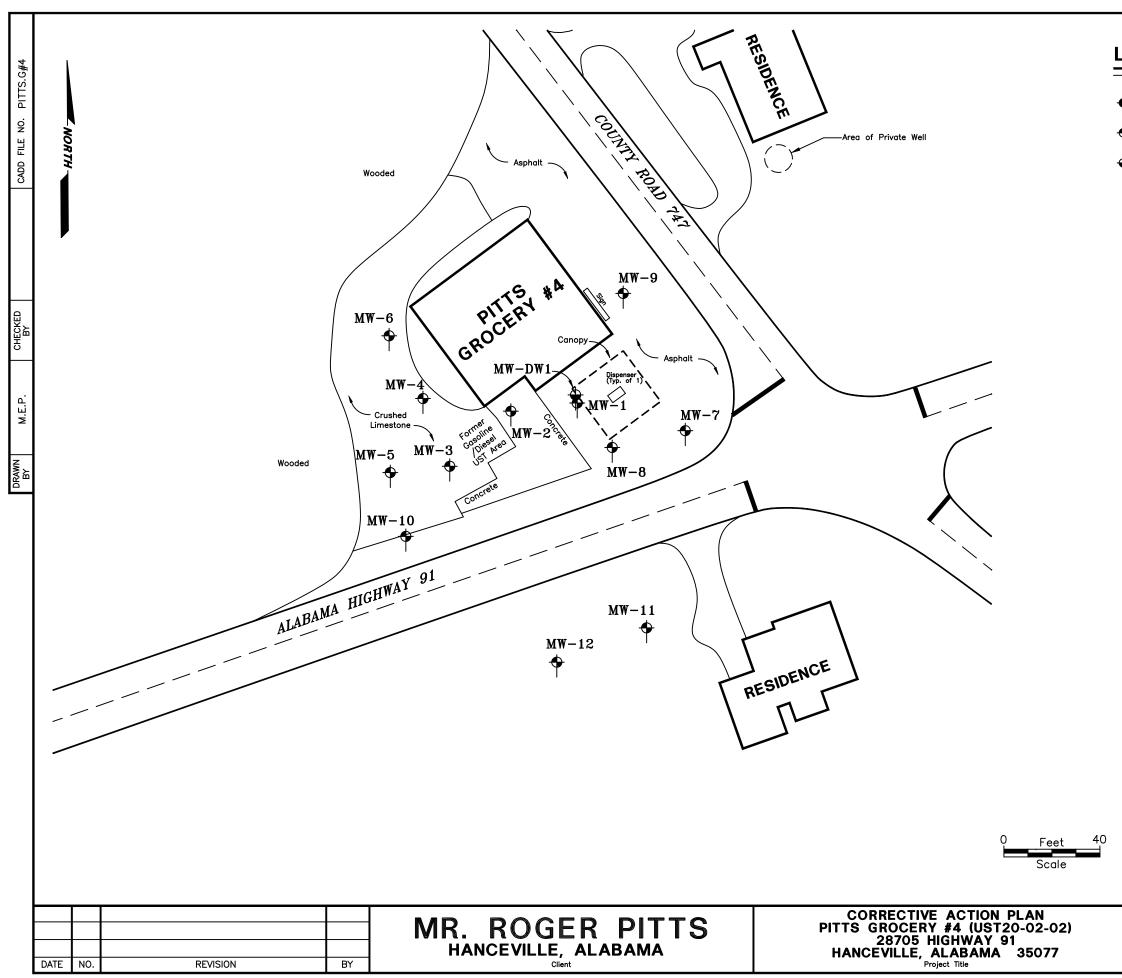








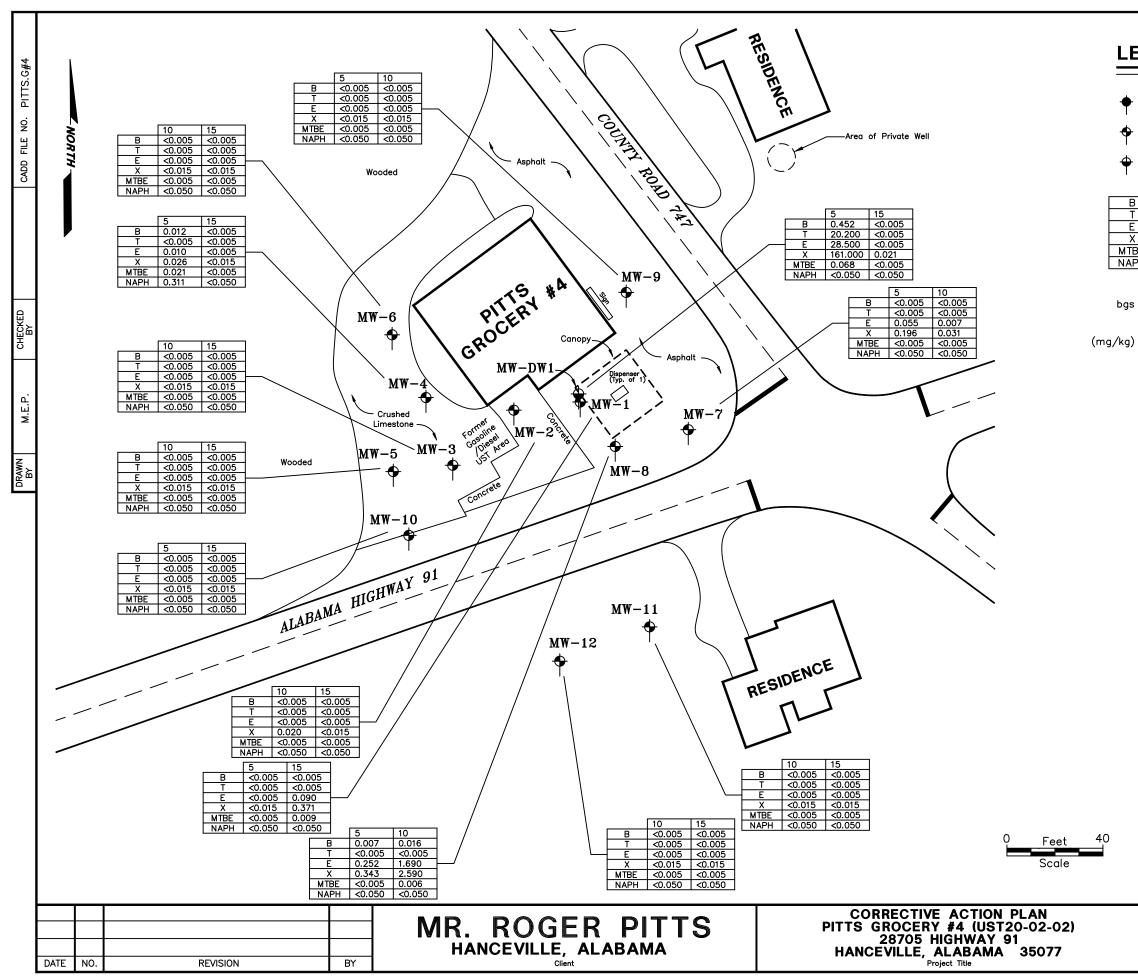




## LEGEND

Soil Exploration Boring
 Soil Exploration Boring/Type II Monitor Well
 Soil Exploration Boring/Type III Monitor Well





## LEGEND

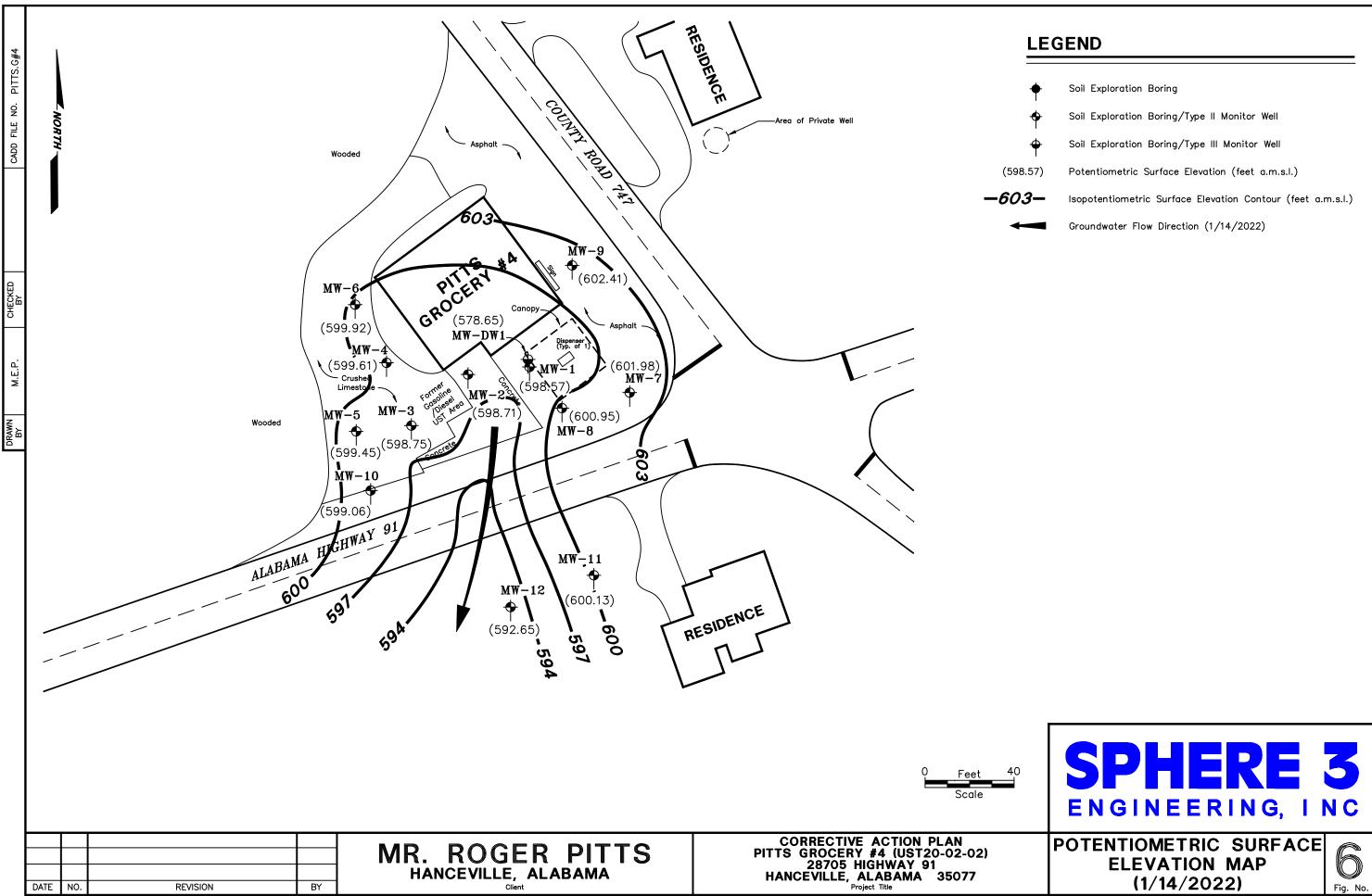
•	Soil Exploration Boring
•	Soil Exploration Boring/Type II Monitor Well
<del>†</del>	Soil Exploration Boring/Type III Monitor Well
1	Sample Collection Depth (feet bgs)
В	Benzene Concentration (mg/kg)
Т	Toluene Concentration (mg/kg)
E	Ethylbenzene Concentration (mg/kg)
V	Tatal Vitanan Ose sectoria (as a (b)

X Total Xylenes Concentration (mg/kg) MTBE Methyl-Tertiary-Butyl-Ether Concentration (mg/kg) NAPH Naphthalene Concentration (mg/kg)

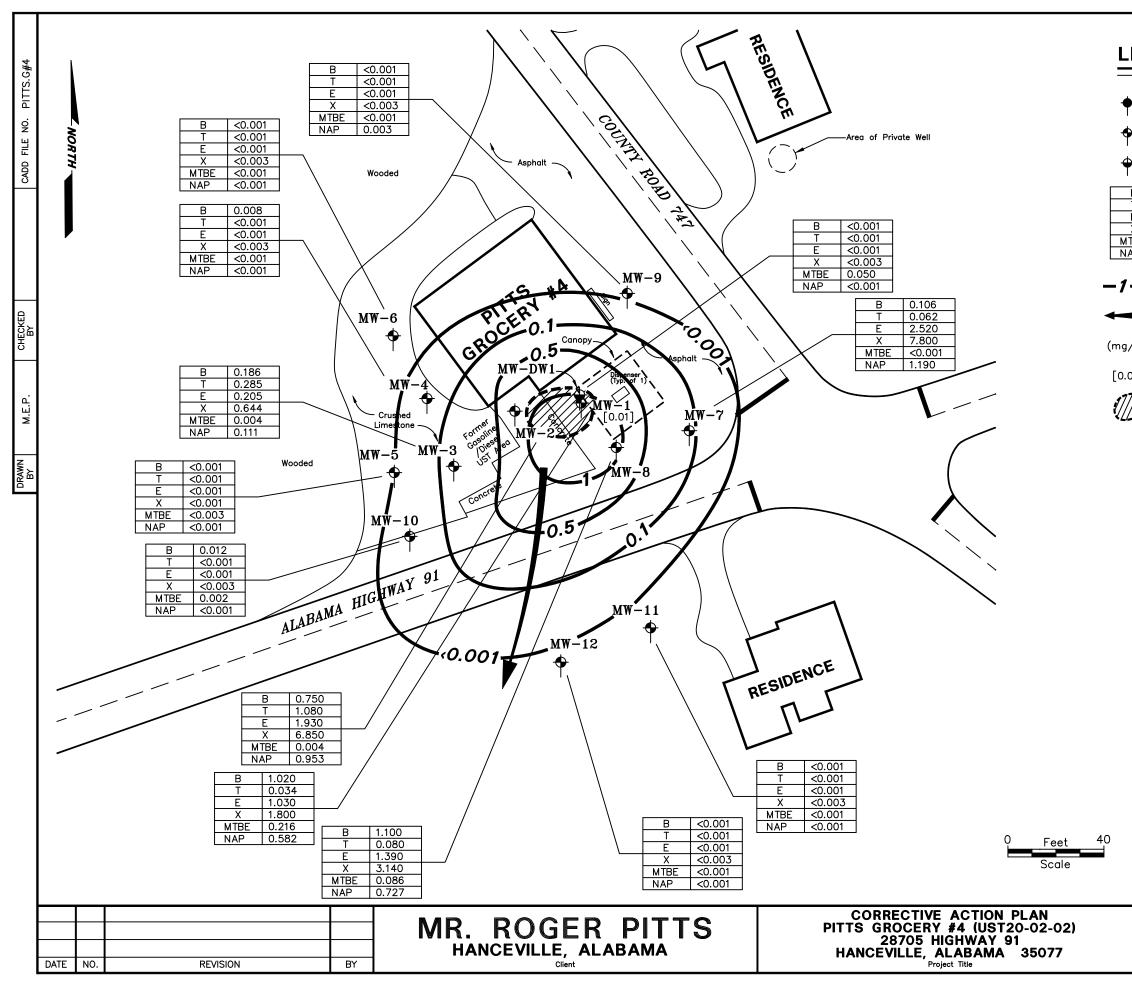
gs below the ground surface

g) Milligrams per Kilogram



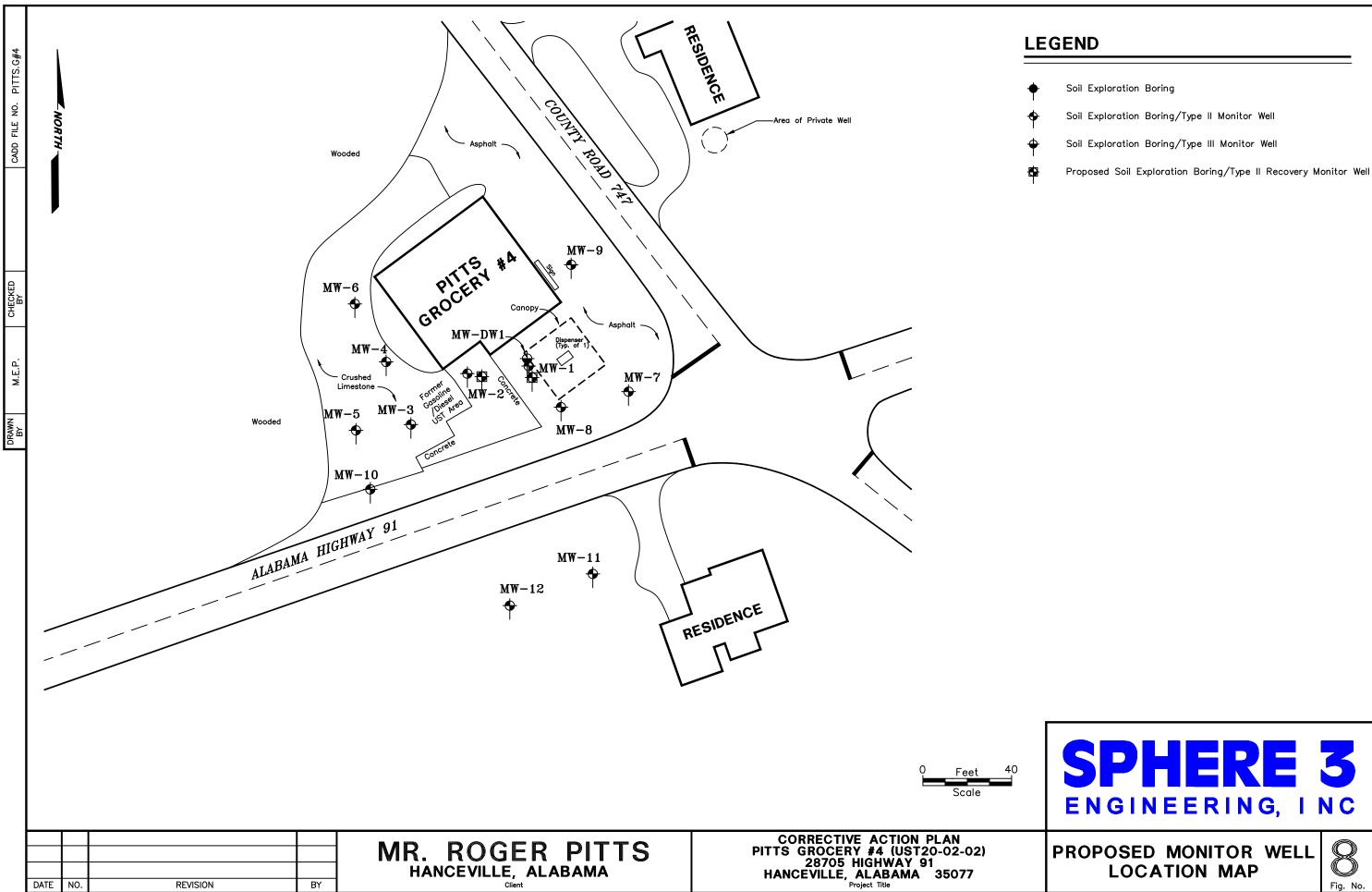


Þ	Soil Exploration Boring
₽	Soil Exploration Boring/Type II Monitor Well
₽	Soil Exploration Boring/Type III Monitor Well
7)	Potentiometric Surface Elevation (feet a.m.s.l.)
_	Isopotentiometric Surface Elevation Contour (feet a.m.s.l.)
	Groundwater Flow Direction (1/14/2022)



## LEGEND

•	Soil Exploration Boring
⊺ �	Soil Exploration Boring/Type II Monitor Well
⊺ ⊕	Soil Exploration Boring/Type III Monitor Well
I B	Dissolved Benzene Concentration (mg/L)
T	Dissolved Toluene Concentration (mg/L)
E	Dissolved Ethylbenzene Concentration (mg/L)
X MTBE	Dissolved Total Xylenes Concentration (mg/L) Dissolved Methyl—Tertiary—Butyl—Ether Concentration (mg/L)
NAP	Dissolved Naphthalene Concentration (mg/L)
1—	Dissolved Benzene Isoconcentration Contour (mg/L)
	Groundwater Flow Direction (1/14/2022)
g/L)	Milligrams per Liter
).02]	Free Product Thickness (feet)
	Estimated Aerial Extent of Free Product
	SPHERE 3
	ENGINEERING, INC
+	DISSOLVED COCs
	CONCENTRATIONS MAP
	(1/14/2022) <sup>#</sup> Fig. No.









CLIENT: LOCATION:	28705 High	ry #4 Center I		02-02)	Page: File Numbe Event Date Field Perso	):	1 of 1 FS.G#4CH.01 5/4/2020 HTB		
Pre - MEME Event     Sampling Event       Post - MEME Event     Free Product 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		
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)		
MW-1	605.76	ND	6.67	NA	599.09	NA	599.09		
MW-2	605.28	ND	6.50	NA	598.78	NA	598.78		
MW-3	604.73	ND	6.72	NA	598.01	NA	598.01		
MW-4	604.64	ND	5.70	NA	598.94	NA	598.94		

#### Notes:

Elevations are referenced to a mean-sea-level elevation estimated at 606.00 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



Mr. Roger Pitts

CLIENT:

# WATER/ FREE PRODUCT LEVEL DATA

1 of 1

Page:

LOCATION:	28705 High	y #4 Center H way 91 Alabama 350	·	2-02)	File Numbe Event Date Field Perso	:	rs.G#4CH.02 10/16/2020 HTB; JWJ	
	MEME Event MEME Event		]	Sampling Event				
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	605.76	10.61	10.68	595.15	595.08	0.07	595.13	
MW-2	605.28	12.03	12.41	593.25	592.87	0.38	593.16	
MW-3	604.73	ND	10.50	NA	594.23	NA	594.23	
MW-4	604.64	ND	8.14	NA	596.50	NA	596.50	
MW-5	604.37	ND	8.39	NA	595.98	NA	595.98	
MW-6	604.66	ND	7.61	NA	597.05	NA	597.05	
MW-7	605.30	ND	7.10	NA	598.20	NA	598.20	
MW-8	605.41	ND	8.68	NA	596.73	NA	596.73	
MW-9	605.90	ND	6.16	NA	599.74	NA	599.74	
MW-10	605.21	ND	9.44	NA	595.77	NA	595.77	
MW-11	605.31	ND	16.85	NA	588.46	NA	588.46	
MW-12	603.15	ND	17.97	NA	585.18	NA	585.18	
MW-DW1	605.73	ND	34.07	NA	571.66	NA	571.66	
<b>Notes:</b> Elevations are Water and Fre Potentiometric	ee Product de	epths were m	easured and	recorded to t	he nearest 0	.01 foot.	ckness	



CLIENT: LOCATION:	Mr. Rodger PittsPage:Pitts Grocery #4 Center Hill (UST20-02-02)File Number:F28705 Highway 91Event Date:Hanceville, Alabama 35077Field Personnel:					:	1 of 1 PITTS.G#4CH.05 7/15/2021 GAK	
	MEME Event MEME Event		]	Sampling Event				
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 MW-3 MW-4 MW-5 MW-5 MW-6 MW-7 MW-6 MW-7 MW-8 MW-9 MW-10 MW-10 MW-10 MW-11 MW-12 MW-12 MW-DW1	605.76         605.28         604.73         604.64         604.37         604.66         605.30         605.41         605.21         605.31         605.73	8.87 6.89 ND ND ND ND ND ND ND ND ND ND ND	8.88 6.92 6.32 5.04 4.93 5.09 3.64 4.96 3.82 6.01 6.54 11.51 28.87	596.89 598.39 NA NA NA NA NA NA NA NA NA NA NA	596.88 598.36 598.41 599.60 599.44 599.57 601.66 600.45 602.08 599.20 598.77 591.64 576.86	0.01 0.03 NA NA NA NA NA NA NA NA NA NA	596.89         598.38         598.41         599.60         599.44         599.57         601.66         600.45         602.08         599.20         598.77         591.64         576.86	

Potentiometric Surface Elevation = Water Surface Elevation + 75% of the Free Product Thickness



1 of 1

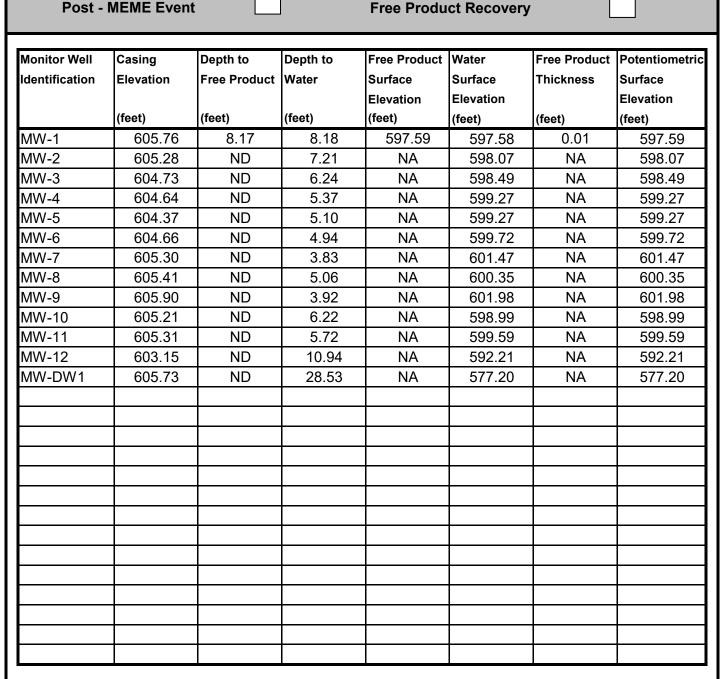
CLIENT:	Mr. Rodger Pitts
LOCATION:	Pitts Grocery #4 Center Hill (UST20-02-02)
	28705 Highway 91
	Hanceville, Alabama 35077

Page:	1 of 1
File Number:	PITTS.G#4CH.06
Event Date:	10/12/2021
Field Personnel:	JGH; GAK

Pre - MEME Event

**Free Product Recovery** 

**Sampling Event** 



#### Notes:

Elevations are referenced to a mean-sea-level elevation estimated at 606.00 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



CLIENT: LOCATION:	Mr. Rodger PittsPage:Pitts Grocery #4 Center Hill (UST20-02-02)File Number28705 Highway 91Event Date:Hanceville, Alabama 35077Field Person						1 of 1 TS.G#4CH.07 1/14/2022 JGH; GAK
Pre - MEME Event     Sampling Event       Post - MEME Event     Free Product 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	605.76	7.19	7.21	598.57	598.55	0.02	598.57
MW-2	605.28	ND	6.57	NA	598.71	NA	598.71
MW-3	604.73	ND	5.98	NA	598.75	NA	598.75
MW-4	604.64	ND	5.03	NA	599.61	NA	599.61
MW-5	604.37	ND	4.92	NA	599.45	NA	599.45
MW-6	604.66	ND	4.74	NA	599.92	NA	599.92
MW-7	605.30	ND	3.32	NA	601.98	NA	601.98
MW-8	605.41	ND	4.46	NA	600.95	NA	600.95
MW-9	605.90	ND	3.49	NA	602.41	NA	602.41
MW-10	605.21	ND	6.15	NA	599.06	NA	599.06
MW-11	605.31	ND	5.18	NA	600.13	NA	600.13
MW-12	603.15	ND	10.50	NA	592.65	NA	592.65
MW-DW1	605.73	ND	27.08	NA	578.65	NA	578.65
Notes:							

Elevations are referenced to a mean-sea-level elevation estimated at 606.00 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:	May 7, 2020
Attention:	Mr. Greg Hoagland		Reference #	42900
Address:	3433 Sie	rra Drive	P.O. #	PITTS.G#4CH.01
	Hoover, AL 35216		Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	teiv.	agil	Ampletical	
Sample Ma		soil	Analytical	TT
Sample Ma Date Recei Date Collec	ved:	soil 4/30/20 4/28/20	Analytical Analyst: Date of Analysis:	Hageman/Heard 5/1-4/20

	<b>VOLATILE ORGANICS - BTEX/MTBE</b>										
	FIELD ID	FIELD ID FIELD ID		FIELD ID	FIELD ID	FIELD ID					
	SB-1 5'	SB-1 15'	SB-2 10'	SB-2 15'	SB-3 10'	SB-3 15'					
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection				
Organic, ppm	214354	214355	214356	214357	214358	214359	Limit, ppm				
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005				
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	0.005				
Ethylbenzene	BDL	0.090	BDL	BDL	BDL	BDL	0.005				
Xylenes, o,m,p	BDL	0.371	0.020	BDL	BDL	BDL	0.015				
MTBE	BDL	0.009	BDL	BDL	BDL	BDL	0.005				

BDL = Below Detection Limit

Detection Limit is Practical Quantitation Limit

All results expressed as ppm of analyte, dry basis

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc. Mr. Greg Hoagland		Report Date:	May 7, 2020
Attention:			Reference #	42900
Address:	3433 Sie	rra Drive	P.O. #	PITTS.G#4CH.01
Contraction of the	Hoover, AL 35216		Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	trix:	soil	Analytical	
		soil 4/30/20	Analytical Analyst:	Hageman/Heard
Sample Ma Date Recei Date Collec	ved:			Hageman/Heard 5/1-4/20

	<b>VOLATILE ORGANICS - BTEX/MTBE</b>									
	FIELD ID	FIELD ID								
	SB-4 5'	SB-4 15'								
Volatile	LAB ID	LAB ID		Detection						
Organic, ppm	214360	214361		Limit, ppm						
Benzene	0.012	BDL		0.005						
Toluene	BDL	BDL		0.005						
Ethylbenzene	0.010	BDL		0.005						
Xylenes, o,m,p	0.026	BDL		0.015						
MTBE	0.021	BDL		0.005						

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

MH /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kin Dougt

Kevin Doriety Analytical Chemist

### Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.		Report Date:	May 7, 2020	
Attention:	Mr. Greg Hoagland		Reference #	42900	
	3433 Sie	rra Drive	P.O. #	PITTS.G#4CH.01	
	Hoover, AL 35216		Project ID:	Pitts Grocery #4 Center Hill	
-					
Sample Ma	trix:	soil	Analytical		
Sample Ma Date Recei		soil 4/30/20	Analytical Analyst:	CR	
	ved:			CR 5/4/20	

		Mois	ture Co	ntent			
	FIELD ID						
	SB-1 5'	SB-1 15'	SB-2 10'	SB-2 15'	SB-3 10'	SB-3 15'	
Moisture Content	LAB ID	Detection					
by %	214354	214355	214356	214357	214358	214359	Limit, %
Moisture Content	19.8%	17.8%	20.2%	17.3%	14.3%	20.5%	0.1%
	FIELD ID	FIELD ID					
	SB-4 5'	SB-4 15'					
Moisture Content	LAB ID	LAB ID					Detection
by %	214360	214361					Limit, %
Moisture Content	26.5%	17.0%					0.1%

BDL = Below Detection Limit

11/ /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Heri Etre

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	May 7, 2020	
Attention:	: Mr. Greg Hoagland		Reference #	42900 PITTS.G#4CH.01 Pitts Grocery #4 Center Hill	
Address:	3433 Sierra Drive Hoover, AL 35216		P.O. #		
			Project ID:		
Sample Ma	trix:	soil	Extraction Date:	5/5/20	
		soil 4/30/20	Extraction Date: Analyst:	5/5/20 Hageman/Heard	
Sample Ma Date Recei Date Collec	ved:				

POLYNUCLEAR AROMATIC HYDROCARBONS										
	FIELD ID SB-1 5'	FIELD ID SB-1 15'	FIELD ID SB-2 10'	FIELD ID SB-2 15'	FIELD ID SB-3 10'	FIELD ID SB-3 15'				
Polynuclear Aromatics, ppm	LAB ID 214354	LAB ID 214355	LAB ID 214356	LAB ID 214357	LAB ID 214358	LAB ID 214359	Detection Limit, ppm			
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050			

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

#### Environmental Company, Inc.

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



Client: Sphere 3 Engineering, Inc.			Report Date:	May 7, 2020								
Attention:	ention: Mr. Greg Hoagland		Reference #	42900								
Address:			P.O. #	PITTS.G#4CH.01								
		AL 35216	Project ID:	Pitts Grocery #4 Center Hill								
Camala Ma	antara		Estantian Data	5/5/20								
Sample Ma		soil	Extraction Date:	5/5/20 Hagaman/Haard								
Sample Ma Date Recei Date Colle	ved:	soil 4/30/20 4/28/20	Extraction Date: Analyst: Date of Analysis:	5/5/20 Hageman/Heard 5/6/20								

POL	YNUCL	EAR AR	OMATIC HYDRO	CARBONS
	FIELD ID	FIELD ID		
	SB-4 5'	SB-4 15'		
Polynuclear	LAB ID	LAB ID		Detection
Aromatics, ppm	214360	214361		Limit, ppm
Acenaphthene	BDL	BDL		0.050
Acenaphthylene	BDL	BDL		0.050
Anthracene	BDL	BDL		0.050
Benzo(a)anthracene	BDL	BDL		0.050
Benzo(b)fluoranthene	BDL	BDL		0.050
Benzo(k)fluoranthene	BDL	BDL		0.050
Benzo(ghi)perylene	BDL	BDL		0.050
Benzo(a)pyrene	BDL	BDL		0.050
Chrysene	BDL	BDL		0.050
Dibenzo(ah)anthracene	BDL	BDL		0.050
Fluoranthene	BDL	BDL		0.050
Fluorene	BDL	BDL		0.050
Indeno(1,2,3-cd)pyrene	BDL	BDL		0.050
Naphthalene	0.311	BDL		0.050
Phenanthrene	BDL	BDL		0.050
Pyrene	BDL	BDL		0.050

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety Analytical Chemist

<ol> <li>Is the client an on report?</li> </ol>	d the sample collector(s) accurately noted	NOYAS	NO YES
2. Do all dates m	atch the COC on the report?	NO	NO YES
3. Is the purchase noted on repo	e order ID (PO) and project ID accurately rt?	NO	NO YES
4. Are all method	ds and method references correct on report	? NO YES	NO YES
5. Do the Field II COC?	D(s) and the Lab ID(s) correspond to the $A = A + A$	NOYXS	NO YES
6. Is the report fo	ormatted correctly?	YES	NO YES
	wing information on report correspond to t mation from the analytical instrumentation		
	Sample Matrix	NO YNS	NO YES
	Analyst	NO YKS	NO YES
	Analysis Date/Time	NO XES	NO YES
	Analyte concentration	NO	NO YES
	Units	NO	NO YES
	Dilution Factors/Conversions	NO XES	NO YES
	Detection/Reporting/Quant. Limits	NO YAS	NO YES
	QC Reviewed:	JASS .	YES
	Initial*:	MOST	K
	* MJH = Michael Heard, $KD = Ke$	evin Doriety, MSH = Matt Hage	eman, KH = Kelly Hester
PDF: HOAG	and Hunter, Karstens Invoid	42900	)
Notes:	Loui STERIZ IIIAN	Sutherland Environme	

Date Received: 4/30/20	Invoice #	42	1900 here	_
Method of Delivery: <u>Hand</u>	Client:	Spi	here	3
1. Did any containers arrive broken?		YES	NO	
* If so, please state field ID with analysis of broken samp	ole(s)			
2. Were cooler(s) sealed upon arrival?		(YES)	NO	NA
3. Were the samples received at the proper teamperature ( $4^{\circ}$	C +/- 2°C)?	(YÉS)	NO	NA
4. Did a chain of custody accompany the samples?		(YES)	NO	ľ
* 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) of	out 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	NO	3
* If so, please state field ID of rejected sample(s):				



## SUTHERLAND ENVIRONMENTAL2515 5th Avenue SouthCOMPANY, INC.Birmingham, AL 35233

Phone: 205 581 9500 Fax: 205 581 9504



Consultant Nar	ne: SPH	HERE 3	Engineerii	ng, Ind																	F	age	#:	Pag	e 1	of 1			-					
	ss: 343																			h	IVO	ice	Го:	SPH	ERE	3 Er	ngine	eering	, Inc.		-			
City/State/2		and the second se		216							-									1	Rep	ort	To:	greg	@s	pher	e3.c	om; j	on@	sphe	ere3.	com,	mail	origina
	ent: Mr.																				Pro	ojec	t #:	PITT	rs.c	6#4C	H.0	1			_			
Consultant Project M	gr: Gre	g Hoagla	and															ι	JST	Inc	ide	nt N	lo.:	UST	20-	02-02	2							
Consultant Telephone Numb	er: (205	5) 403.33	317				Fa	x No	o.: (	205	5) 40	3.3	318							Fa	cili	ty IE	)#:	Pitts	Gro	ocery	/ #4	Cente	er Hi	11				
Sampler Name: (Pr	int)	KAR	STE	NS	5						-	_														lighw	-							
Sampler Signatu	ire:	1	XX	à	to	les	n	_		_		-						Cit	ty, (	Cou	nty,	Sta	te:	Han	cevi	lle, C	Sulln	nan, A	AL				_	
									P	res	erva	ative	e	T		N	latri	X					F	naly	ze	For:	_							
Sample ID or Field ID		Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	H2SO4 Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)	HNO <sub>3</sub> (Red Label)	None (Black Label)	Groundwater	Wastewater	Sludge	Soil	Other (specify): WATER	BTEX/MTBE 5035/8260	PAH 8270C	MOISTURE CONTENT	TEMPERATURE							RUSH TAT (Pre-Schedule)	PDF Results (yes or no)		Due Date of Report	
SB-1 5 214354	1-	29/20	0020	5	X			1	2	$\dagger$	1	$\vdash$	$\square$	2	+	1	1	X		X	X	X					1	-	1		VY			
SB-1 (5 214355	4	10 20	0005	5	X			-	2	$\dagger$	+	$\vdash$	H	2	+	+	+	X		X	X	X		1	1		+	1	$\square$		VY		_	
SB-2 10 214350		2012	21225	5	X		-	-	2	+	+	$\vdash$	Η	2	+	+	+	X	Η	X	X	X		+	+	+	+	+			VY			
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SB-3 10' 214358		2220	1230	2	X	-	-	1	-	+	+	+	$\vdash$	2	+	+	+	x	Η	×	×	X	-	-	+	+	+	+	+		VY	-		
SB-3 15' Z14354		28/20		2	X	-	-		2	+	+	+	+	-	+	+	-	-	Н	-	-	-		-	+	+	+	+	+		-	-		
SB-4 5' 214360	24	28/2	0 1345	5	Х	-	-	1	2	+	+	+	$\vdash$	2	+	+	-	X	Н	Х	X	Х	-	-	-	+	+	+	+		YV	-		
SB-4 15' 214361	4	28/5	1426	5	Х			1	2	+	+	-	$\square$	2	+	+	-	X		Х	Х	Х	_	-	-	-	+	+	+		YV			
TEMPERATURE BLANK	-			1										1	1	-			Х		_		Х	-		_	4	-		$\square$	YV			
Comments/Special Instructions:																						La				mme		: Receij	int.	2 .	500	-		
0																			_				Sar VO	nple Cs F	Col	ntain of H	ers l eads	Intact <sup>®</sup> space	e?	2.5 Ø	N N	A	Ì	
Relinquished by	20	)4A	1 20	Ti 12	me f8	Rece	ived	by:									Date			Tim	e	Lev	Deli el 2 el 3	veral	bles	(plea	ise c	circle c	one)					
Relinquished by:		Dat	le	TI	me	Rece	lived	by:	A	T	M	/	/		1		Date			Tim		Site						se pre- i speci				JTHE	ERLA	ND

#### Environmental Company, Inc.

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



Client: Sphere 3 Engineering, Inc.			Report Date:	May 11, 2020
Attention:	Mr. Greg	Hoagland	Reference #	42901
Address:	3433 Sier	rra Drive	P.O. #	PITTS.G#4CH.01
Hoover,		AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	trix.	soil	Analytical	
*		soil 4/30/20	Analytical Analyst:	Kevin Doriety
Sample Ma Date Recei Date Collec	ved:			Kevin Doriety 5/11/20

	METAL	IC ANALYTES	
	FIELD ID		
	SOIL		
	COMP-1		
Analyte, mg/Kg	LAB ID	Det	ection
as Total	214362	Limit	, mg/Kg
Lead	10		1.0

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

/QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Nei Dougta

Kevin Doriety Analytical Chemist

### Environmental Company, Inc.

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



Client:	1 0 0.		Report Date:	May 11, 2020
Attention:	Mr. Greg	Hoagland	Reference #	42901
Address:			P.O. #	PITTS.G#4CH.01
		AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	trix:	soil	Analytical	
Sample Ma Date Recei		soil 4/30/20	Analytical Analyst:	R. Currence
	ved:			R. Currence 4/30/20

<b>TOTAL PETROLEUM HYDROCARBONS</b>												
FIELD ID	LAB ID	TPH, PPM	D.L., PPM									
SOIL COMP-1	214362	18	10									

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

V\_/QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Do

Kevin Doriety Analytical Chemist

<ol> <li>Is the client and the sample collector(s) accurately noted on report?</li> </ol>	YES YES	NO YES
2. Do all dates match the COC on the report?	NO YXS	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 YE	NO YES
6. Is the report formatted correctly?	YES	NOYES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:		
Sample Matrix	NO YES	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO YKS	NO YES
Analyte concentration	NO YES	NO YES
Units	NO 758	NO YES
Dilution Factors/Conversions	NO	NO YES
Detection/Reporting/Quant. Limits	NO YES	NO YES
QC Reviewed:	YKS	YES
<i>Initial*:</i> * MJH = Michael Heard, KD = Ke	vin Doriety, MSH = Matt Hagen	han, KH = Kelly Hester
PDF: G. Kanstens, Hoagland, Hunter Invoic Notes:	e # Sutherland Environment	tal Co., Inc.

Date Received: 4/30/20	Invoice #	42	-901	
Method of Delivery: 1-fand	Client:	Sp	-901 here	3
I. Did any containers arrive broken?		YES	NO	]
* If so, please state field ID with analysis of broken san	nple(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?		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 o	f 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):				

Pitt's Grocery; UST200202; Soil Comp-1; Lab I.D. 214362

### # 42901

From: Greg Hoagland, P.E. (greg@sphere3.com)

- To: suthlab@bellsouth.net
- Cc: gregkarstens@bellsouth.net; jon@sphere3.com; karen@sphere3.com

Date: Thursday, April 30, 2020, 04:24 PM CDT

#### Michael:

Thank you for taking the time to speak with me today by telephone regarding our project at Pitt's Grocery in Hanceville, Alabama (UST200202). As per our conversation, please accept this email as our request to correct the collection date of sample I.D. "Soil Comp-1" (Lab I.D. 214362) from 4/30/20 to 4/29/20. I apologize for the inconvenience.

If any additional information or clarification is needed, please advise. Thank you very much.

Greg Hoagland, P.E.

#### SPHERE 3 ENGINEERING, INC

3433 Sierra Drive

Hoover, Alabama 35216

Phone: (205) 403-3317

Facsimile: (205) 403-3318

Mobile: (205) 288-4896

Email: greg@sphere3.com

42901

# SPHERE 3

Consultant Name:	SPHERE 3 Er	ngineerin	ng, Inc.													_				F	Page	#:	Page	e 1 d	of 1								
	3433 Sierra D																										ering,						_
City/State/Zip:	and the second se		216																1	Rep	ort T	0:	greg	@sp	ohere	e3.co	om; jo	n@s	phe	re3.c	com,	mail origi	nal
	Mr. Roger Pitt																			Pro	oject	#: PITTS.G#4CH.01											
Consultant Project Mgr:																_	L	JST			nt No		_	-	the Real Property lies in which the real Property lies in the real Pro	_							_
Consultant Telephone Number:	Section and the section of the secti					Fax	c No	.: (	205	) 40	3.3	318							Fa	acili	ty ID	#:	Pitts	Gro	cery	#4 (	Cente	er Hill	1				
Sampler Name: (Print)			S														Site Address: 28705 Highway 91								_								
Sampler Signature:		21/	rate	11	0	-											Cit	ty,	Cou	nty	, Stat	te:	e: Hanceville, Cullman, AL								_		
		1			2			P	res	erva	tive	)	T		M	latri	x			_		A	naly	ze F	or:	-			-12				
Sample ID or Field ID SOIL COMP-1 214362	Date Sampled	Time Sampled	1	Grab	X Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	H2SO4 Plastic (Yellow Label)	WL	HNO <sub>3</sub> (Red Label)	X X None (Black Label)	Groundwater	Vvastewatet Drinting Motor	Sludge	X Soil	-	× TOTAL LEAD 6010	× TPH 418.1	× TEMPERATURE								1	Z Z I.M. request (in bus. Days) A ~ PDF Results (yes or no)		Due Date of Report	
TEMPERATURE BLANK			1	1			H						X	+	+			X			×			+	+	+	+			N T			
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Comments/Special Instructions:																						Ter Sar VO	nper nple Cs F	atur Cor ree	e Up ntain of He	on R ers li eads	Receip ntact? pace	?	2.5 (Y) Y	N N	C	R	
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Relinquished by:	Date		Time	e f	Recei		DY:	A	P	w/	/			4	1	30/	1		125		Site	Spe						-schei ifc ins			UTH	ERLAND	

Phone: 205 581 9500

Fax: 205 581 9504

2515 5th Avenue South

Birmingham, AL 35233

SUTHERLAND ENVIRONMENTAL

COMPANY, INC.

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	October 26, 2020
Attention:	Mr. Greg	g Hoagland	Reference #	43881
Attention: Address: Sample Matr Date Receive Date Collecte	3433 Sie	rra Drive	P.O. #	PITTS.G#4CH.02
Attention: Address: Sample Math Date Receive Date Collect	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Attention: M Address: 3				and the second se
Attention: Address: Sample Matr Date Receive Date Collected	-			
Sample Ma	atrix:	soil/TerraCore	Analytical	
Sample Matr Date Receive Date Collecto		soil/TerraCore 10/15/20	Analytical Analyst:	Hageman/Heard
Date Recei	ved:			Hageman/Heard 10/18-19/20

VOLATILE ORGANICS - BTEX/MTBE													
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	SB-5 @ 10'	SB-5 @15'	SB-6 @ 10'	SB-6 @ 15'	SB-7 @ 5'	SB-7 @ 10'							
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Organic, ppm	219966	219967	219968	219969	219970	219971	Limit, ppm						
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005						
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	0.005						
Ethylbenzene	BDL	BDL	BDL	BDL	0.055	0.007	0.005						
Xylenes, o,m,p	BDL	BDL	BDL	BDL	0.196	0.031	0.015						
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	0.005						

BDL = Below Detection Limit

Detection Limit is Practical Quantitation Limit

All results expressed as ppm of analyte, dry basis

Environmental Company, Inc.

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



Attention: I Address: 2 Sample Matr. Date Receive Date Collecte	Sphere 3	Engineering, Inc.	Report Date:	October 26, 2020
Attention:	Mr. Greg	g Hoagland	Reference #	43881
Address:	3433 Sie	rra Drive	P.O. #	PITTS.G#4CH.02
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Attention: M Address: 3		11/77		
		soil/TerraCore	Analytical	
Sample Matr Date Receive	ved:	10/15/20	Analyst:	Hageman/Heard
Date Collec	cted:	10/13-14/20	Date of Analysis:	10/18-19/20
Sample Col	llector:	G. Karstens	Method:	EPA Method 5035/8260B

VOLATILE ORGANICS - BTEX/MTBE													
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	SB-8 @ 5'	SB-8 @ 10'	SB-9 @ 5'	SB-9 @ 10'	SB-10 @ 5'	SB-10 @ 15'							
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Organic, ppm	219972	219973	219974	219975	219976	219977	Limit, ppm						
Benzene	0.007	0.016	BDL	BDL	BDL	BDL	0.005						
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	0.005						
Ethylbenzene	0.252	1.690	BDL	BDL	BDL	BDL	0.005						
Xylenes, o,m,p	0.343	2.590	BDL	BDL	BDL	BDL	0.015						
MTBE	BDL	0.006	BDL	BDL	BDL	BDL	0.005						

BDL = Below Detection Limit

Detection Limit is Practical Quantitation Limit

All results expressed as ppm of analyte, dry basis

Environmental Company, Inc.

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



Attention: Mr Address: 34	Sphere 3	Engineering, Inc.	Report Date:	October 26, 2020
Attention:	Mr. Greg	g Hoagland	Reference #	43881
Address:	3433 Sie	rra Drive	P.O. #	PITTS.G#4CH.02
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
0 1 1 1				
Sample Ma		soil/TerraCore	Analytical	
		1011 1100		
Date Recei	ved:	10/15/20	Analyst:	Hageman/Heard
		10/15/20 10/12-14/20	Analyst: Date of Analysis:	Hageman/Heard 10/18-20/20

VOLATILE ORGANICS - BTEX/MTBE													
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	SB-11 @ 10'	SB-11 @ 15'	SB-12 @ 10'	SB-12 @ 15'	DW1 @ 5'	DW1 @ 15'							
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Organic, ppm	219978	219979	219980	219981	219982	219983	Limit, ppm						
Benzene	BDL	BDL	BDL	BDL	0.452	BDL	0.005						
Toluene	BDL	BDL	BDL	BDL	20.200	BDL	0.005						
Ethylbenzene	BDL	BDL	BDL	BDL	28.500	BDL	0.005						
Xylenes, o,m,p	BDL	BDL	BDL	BDL	161.000	0.021	0.015						
MTBE	BDL	BDL	BDL	BDL	0.068	BDL	0.005						

BDL = Below Detection Limit

Detection Limit is Practical Quantitation Limit

All results expressed as ppm of analyte, dry basis

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

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



Attention: I Address: 3 I Sample Matri	Sphere 3	Engineering, Inc.	Report Date:	October 26, 2020
Attention:	Mr. Greg	g Hoagland	Reference #	43881
Address:	3433 Sie	erra Drive	P.O. #	PITTS.G#4CH.02
Attention: Address: Sample Matr Date Receive Date Collect	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Attention: M Address: 3 F Sample Matri Date Received Date Collecte				
Attention: M Address: 3 F Sample Matri Date Receive Date Collecter				
Attention: M Address: 34	trix:	soil/TerraCore	Analytical	Tank a
		soil/TerraCore 10/15/20	Analytical Analyst:	CRR
Date Recei	ved:			CRR 10/16/20

		Moi	sture Co	ntent			
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB-5 @ 10'	SB-5 @15'	SB-6 @ 10'	SB-6 @ 15'	SB-7 @ 5'	SB-7 @ 10'	
Moisture Content	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
by %	219966	219967	219968	219969	219970	219971	Limit, %
Moisture Content	17.8%	20.8%	17.1%	13.2%	15.7%	13.4%	0.1%
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB-8 @ 5'	SB-8 @ 10'	SB-9 @ 5'	SB-9 @ 10'	SB-10 @ 5'	SB-10 @ 15'	
Moisture Content	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
by %	219972	219973	219974	219975	219976	219977	Limit, %
Moisture Content	10.8%	18.0%	13.8%	17.4%	14.5%	17.7%	0.1%
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB-11 @ 10'	SB-11 @ 15'	SB-12 @ 10'	SB-12 @ 15'	DW1 @ 5'	DW1 @ 15'	
Moisture Content	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
by %	219978	219979	219980	219981	219982	219983	Limit, %
Moisture Content	19.9%	15.3%	16.6%	21.1%	18.8%	11.9%	0.1%

BDL = Below Detection Limit

\_\_\_\_/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

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 YES	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO YXS	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 YAS	NO YES
6. Is the report formatted correctly?	YES YES	NO YES
7. Does the following information on report correspond to t printout information from the analytical instrumentation		
Sample Matrix	NO	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	NOXES	NO YES
Units	NO XES	NO YES
Dilution Factors/Conversions	NO YES	NO YES
Detection/Reporting/Quant. Limits	NO XAS	NO YES
QC Reviewed:	YAS	YES
Initial*:	MJA	10
* MJH = Michael Heard, KD = Key	vin Doriety, MSH = Matt Hagem	an, KH = Kelly Hester
PDF: HOAG and, Hunter Invoice	4388	
Notes: DOWT SEMD WO H 12918	Sutherland Environmento	al Co., Inc.
TI 1 5 110		

Date Received: _10/15/20	Invoice #	L	3881	
Method of Delivery: Hand	Client:	Spr	13881 we3	
1. Did any containers arrive broken?		YES	LNO	]
* If so, please state field ID with analysis of broker	n sample(s)			_
2. Were cooler(s) sealed upon arrival?		YES	NO	NA
3. Were the samples received at the proper teamperatu	ure (4°C +/- 2°C)?	VYES	NO	NA
1. Did a chain of custody accompany the samples?		VYES	NO	]
* Was it properly filled out?		YES	NO	]
5. Were correct containers used for the analysis reque	sted?	VYES	NO	]
6. Were all containers properly preserved?		VYES	NO	NA
7. Were all water samples received at the proper pH?		WES	NO	NA
3. If VOA vials were present, was there any head space	ce?	YES	LNO	NA
* If so, please state field ID of deficient sample(s):				_
9. Were all containers properly labeled and match cha	in of custody?	YES	NO	]
10. Did containers arrive within holding time of analys	sis?	YES	NO	]
* If not, please state field ID and analysis of sample	e(s) out of holding time:			
1. Was client informed of any/all deficiencies in sam	ple check-in?	YES	NO	LNA
12. Were any samples rejected?		YES	NO	]
* If so, please state field ID of rejected sample(s):				

COMPANY, INC.         Birmingham, AL 3523         Fax: 205 581 9504         EING INCERTING, INC.           Address: 3433 Stora Drve         Address: 3433 Stora Drve         Invoice To: 3P4ERE3 Engineering, Inc.         Page #: Page 1012           Consultant Neiger Prise         Consultant Project R: DTTS GMCH02         Page #: Page 1012         Invoice To: 3P4ERE3 Stora Drve           Consultant Project R: DTTS GMCH02         Consultant Project R: DTTS GMCH02         Page #: Page 1012         Invoice To: 3P4ERE3 Stora Drve           Consultant Project R: DTTS GMCH02         Consultant Project R: DTTS GMCH02         DST Incident No: UST20 2022         Facility Die Pth Gmc Pth GMC Pth           Sampler Naire (%)         DTT Condent No: UST20 2022         Facility Die Pth Gmc Pth GMC Pth         Facility Die Pth Gmc Pth GMC Pth         Project R: DTTS GMCH02           Sample ID or Field ID         Facility Die Pth Gmc Pth GMC Pth         Project R: DTTS GMCH02         Analyze For: To: 992(992(992(9)2)         Project R: DTTS GMCH02           SB-S G         O S A199 GG III         Project R: DTTS GMCH02         Analyze For: To: 992(992(902(9)2)         Project R: DTTS GMCH02           SB-S G         O S A199 GG III         IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	SUTHERLAND ENVIRONMEN	TAL 2515	5th Avenue	e South		Pho	ne:	205 58	31 9	9500										S	43 PI	88		RE	3
Address:       343 Stern Drive       Invoice To:       Berlefit 28 Engeneting, Inc.         City/State/Zip:       Horver, Alabama 35216       Berlefit 28 Engeneting, Inc.       Report To:       Bregorie 20 and Berlefit 20 and Berl	COMPANY, INC.	Birm	ingham, AL	35233		F	ax:	205 58	31 9	9504										ΕN	GIN	1EI	ERI	NG,	INC
Address:       343 Stern Drive       Invoice To:       Berlefit 28 Engeneting, Inc.         City/State/Zip:       Horver, Alabama 35216       Berlefit 28 Engeneting, Inc.       Report To:       Bregorie 20 and Berlefit 20 and Berl	Consultant Name:	SPHERE 3 Enginee	ring, Inc.												Pag	e #:	Page	1 of 2							
Client: Mr. Roger Pitts         Project #: Pitts Gadacht 02         Consultant Project #: Pitts Gadacht 02         Sampler Name: (Print)         Sample ID or Field ID         Sample		Property and in the second															and the second division of the second divisio	allocation of the location of the		eering,	Inc.				
Consultant Project Mgr: Greg Heagland         UST Incident No: UST 20.2-0.2           Consultant Telephone Number: (205) 403.3317         Fax No: (205) 403.3318         UST Incident No: UST 20.2-0.2           Sampler Number: (205) 403.3317         Fax No: (205) 403.3318         UST Incident No: UST 20.2-0.2           Sampler Number: (205) 403.3318         UST Incident No: UST 20.2-0.2           Sampler Number: (205) 403.3318         Site Address: 28705 Highway 91           City, County, State: Hanceville, Cullman, AL           Not (0,1)         Other County, State: Hanceville, Cullman, AL           Sample Name: Sign of Na	City/State/Zip:	Hoover, Alabama 3	5216											Re	port	To:	greg@	spher	re3.c	om; jo	n@sp	here	3.con	n, mail	original
Consultant Telephone Number: [205) 403.3317       Fax No: (205) 403.3318         Sampler Name: [Print]         Sampler Signature:         Site Address: 2203 Highway 91         Consultant Telephone Number: [Print]         Site Address: 2203 Highway 91         Control Site Address: 2203 Highway 91	Client:	Mr. Roger Pitts		_		_								P	ojec	:t #:	PITTS	.G#4C	CH.0	2					
Stampler Name: (Print)           Stampler Name: (Print)           Stampler Signature:           City, County, State: Hancoville, Cullman, AL           Preservative         Matrix         Analyze For:           Option: Intervention         Matrix         Analyze For:           Intervention: Intervention         Matrix         Analyze For:           Intervention: Interventinterention: Intervention: Intervention: Intervention: I		A Design of the second se										U							-	-					
City, County, State: Hanceville, Cullman, AL         Organization         Preservative       Matrix         Analyze For:         Preservative       Matrix         Analyze For:         Preservative       Matrix		Concernant of the American Street and S		Fa	x No.:	(205	) 403	3.3318	_		-						-	COLUMN STREET, ST.			r Hill				
Bample ID or Field ID         Preservetive         Metrix         Analyze For:           Bample ID or Field ID         poddurs			DYED	3		>	~	_			_							successive successive and successive							
Sample ID or Field ID         Paddugs         Paddugs </td <td>Sampler Signature:</td> <td></td> <td>Aca</td> <td>when</td> <td>-</td> <td>-</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td>Cit</td> <td>y, Co</td> <td>unty</td> <td>/, St</td> <td>ate:</td> <td>Hance</td> <td>ville, C</td> <td>Culln</td> <td>nan, A</td> <td>L</td> <td></td> <td></td> <td></td> <td></td>	Sampler Signature:		Aca	when	-	-	2					Cit	y, Co	unty	/, St	ate:	Hance	ville, C	Culln	nan, A	L				
SB-5       10' 219966       102 20 065 4       x       1 2       2       x       x x x x       N Y         SB-5       15' 219967       1       0430 4       x       1 2       2       x       x x x x       N Y         SB-5       15' 219967       1       0430 4       x       1 2       2       x       x x x x       N Y         SB-5       15' 219967       1040 4       x       1 2       2       x x x x       N Y         SB-5       15' 219967       1000 4       x       1 2       2       x x x x       N Y         SB-7       25' 21970       10 12 000 4       1 2       2       x x x x       N Y         SB-7       29 5' 21971       10 13 100 5       1 2       2       x x x x       N Y         SB-7       21972       103 12 13 12       1 2       2       x x x x       N Y         SB-8       10' 214973       1000 4       1 2       2       x x x x       N Y         SB-9       5' 219974       1010 4       1 2       2       1 2       2       1 2       2       1 2       1 2       1 2       1 2       1 2       1 2       1 2       1 2       1 2       <		· · · ·				Pres	ervati	ve	T	-	Matri	x		-		A	nalyze	For:	_			101			
SB-5       a)       5       2)       967       n       0430       4       x       1       2       2       x <td< td=""><td></td><td>Date</td><td>No. of Containers Grab</td><td>Composite Field Filtered</td><td></td><td>HCI (Blue Label) NaOH ( Oranne I ahel)</td><td>H2SO4 Plastic (Yellow Label)</td><td></td><td>+</td><td>Wastewater</td><td>Drinking Water Sludge</td><td></td><td>Other (specify RTFX/MTRF</td><td>PAH 8270C</td><td>MOISTURE</td><td>TEMPERATURE</td><td></td><td></td><td></td><td></td><td>RUSH TAT (Pre-Schedule</td><td></td><td></td><td>Due Date of Report</td><td></td></td<>		Date	No. of Containers Grab	Composite Field Filtered		HCI (Blue Label) NaOH ( Oranne I ahel)	H2SO4 Plastic (Yellow Label)		+	Wastewater	Drinking Water Sludge		Other (specify RTFX/MTRF	PAH 8270C	MOISTURE	TEMPERATURE					RUSH TAT (Pre-Schedule			Due Date of Report	
SB-C       D       2,19,9,4%       u       0,40,4       x       1,2       2       x		000				-+-	++		-	+	+		-	+	-	H	+		-		+	+-+		_	
SB-C       15'2M96A       10084       12       2       12						-+-	++		-	-	+	<u></u>	_	-		$\vdash$		++			+				
SB-7       2       5       2       9       0       4       x       1       2       2       x		the second					+		-	-	-	X	-	+	-	$\square$			_		+	+-+			
SB-       10       24971       10       130       12       2       1       12			24 X		12	4	++		-		_	X	_	-		$\square$			_			+-+	-		
SB-8       5'2/9972       0/3/22/1304       x       12       2       x <td>SB-7 219970</td> <td>10 13 22 095</td> <td>) 4 X</td> <td></td> <td>12</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>_</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>N</td> <td>Y</td> <td></td> <td></td>	SB-7 219970	10 13 22 095	) 4 X		12				2		_	X	X	X	X							N	Y		
SB-8       0       24973       0       0       0       0       1       2       2       1       1       1       1       1       1       1       1       1       1       2       1       1       1       1       1       1       1       2       1<	SB- 7 @ 10 24971	10/13/201010	A X	-	12			1	2			X	X	X	X							N	Y		
SB-9       5'       2)9974       6/1420       030       4       X       1       2       2       X	SB- 8 - 51 219972	10/3/22/1135	XAC		12				2			X	X	X	X							N	Y		
SB-9       5'       2)9974       6/1420       030       4       X       1       2       2       X	SB- 8 (2) 10'219973	10/13/201157	XX		12		Π		2			X	Х	X	X							N	Y		
SB-       S		11100 to3					$\square$		2			X		-	-				T			+++	-		
Comments/Special Instructions:       Laboratory Comments: Temperature Upon Receipt: 2.1°C Sample Containers Intact?         Relinquished by:       Date       Time         Received by:       Date       Time         IOUV/20       1250       Date       Time         Level 2       Level 3		10/14/20 1051				T	++		-			X	_	-	-			+				+++			
DLander 10/15/20 1250	Comments/Special Instructions:			Received I						1	Date				La	Terr Sam VOC	peratu ple Co s Free	nre Up ontain e of He	oon F ers I eads	Receip ntact? space?	00	10	C N		
	DKarter	10/15/20	1250			u	/		_	10	Date	20			Lev Lev Lev	rel 2 rel 3 rel 4						ile w/	SUTH	HERLAN	٩D

SUTHERLAND ENVIRONMEN COMPANY, INC.	TAL	2515 5 Birmin										05 5 05 5															S	P	H	E	R		
Consultant Name:	SPHERE 3 Er	ngineerir	ng, Inc.																	1	Pag	e #:	Pag	je 2	of 2								
Address:	3433 Sierra D	rive														_			1	nvo	ice	To:	SPH	IERE	3 E1	ngine	eering,	Inc.					
City/State/Zip:	the second s	No. of Concession, name	216													_								-				n@s	sphe	re3.co	om, r	nail o	riginal
	Mr. Roger Pitt	and the second se					_	_								_							PIT		STREET, STREET, ST		2						
Consultant Project Mgr: Consultant Telephone Number:	Control of the Owner	and a second sec			-	East	- NL		(20)	5) 40	12 1	3318	-			-		151					UST		-		Conto	r Lil					
Sampler Name: (Print)	Non-	and provide the local division of the local	/	-		ra.	X INC		(20:	5) 40	13.	3310	2	-		-							287		and the owner where the owner where		Cente	1 111	-				
Sampler Signature:		one of the local division of the local divis	its	10							-		-	-	-	-	Cit						Contraction of the local division of the loc	the second s	and the second second second	and the second division of the second divisio	nan, A	NL.					
	R	AL		2			-	F	Dres	erva	ativ	0		-	A	latri			-			-	Anal	-				-	-				
			T	-1			T	Ť	103			Î	+	Т	T		Î		-		-	T		y201	T	T			0 0				7
Sample ID or Field ID         SB-       SB-         SB-       SB	Date Sampled	136 1470 1370 1370 1370 1370	APAPAPAPA No. of Containers Shipped	X X X X X X X X X X X X X X X X X X X	Composite	Field Filtered	1 1 1 1 1 1 1	C C C C C C C C C Sodium Bisulfate	HCI (Blue Label)	HaUH ( Urange Label) H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)	HNO <sub>3</sub>	2 2 2 2 2 2 2 2	Groundwater	Wastewater	Sludge	X X X X X X X	Other (specify	$ \times \times \times \times \times \times \times \times $ BTEXIMTBE 5035/8260	X X X X X X X PAH 8270C	X X X X X X X X MOISTURE CONTENT	TEMPERATURE								Y Y Y Y Y		Due Date of Report	
SB- DW1 2 12483	19/2/20	1410		X			1	2	+	+	+	++	2	-		+	Х		X	Х	X	-		-		-			N				
TEMPERATURE BLANK		-	1	_			$\square$	_	-	+	1	$\square$	1	-	_	-		Х			_	X		-	-	+			N	Y			
Comments/Special Instructions:																					La	Tei Sa	mple	ature Con	e Up taine	on R ers li	leceip ntact? pace?	6	10	N N			
Relinquished by:	ib (1)	20	Tim 125	V	Rece		0								1	Date			Tim		Lev	vel 2 vel 3		oles (	plea	se ci	rcle or	<u>1e)</u>					
Relinquished by:	Date		Tim	ie	Rece	ived b	1/	1	1	21	ry	/	/	T	10	Date	20		Time 50		Site						e pre-s specifo				THER	RLANI	C

#### **ADEM Watermark**

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	October 29, 2020
Attention: Mr. Gre		Hoagland	Reference #	43918
		rra Drive	P.O. #	PITTS.G#4CH.02
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	trix:	soil	Extraction Date:	10/26/20
		soil 10/22/20	Extraction Date: Analyst:	10/26/20 Hageman/Heard
Sample Ma Date Recei Date Collec	ved:			

PC	DLYNUCI	LEAR AR	OMATIC	HYDRO	CARBO	NS	
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB-5 @ 10'	SB-5 @15'	SB-6 @ 10'	SB-6 @ 15'	SB-7 @ 5'	SB-7 @ 10'	
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Aromatics, ppm	220167	220168	220169	220170	220171	220172	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

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Environmental Company, Inc.

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



Client:	Client: Sphere 3 Engineering, Inc.		Report Date:	October 29, 2020
		Hoagland	Reference #	43918
Address:	3433 Sier	rra Drive	P.O. #	PITTS.G#4CH.02
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	utrix:	soil	Extraction Date:	10/26/20
	and the second se	10/22/20	Analyst:	Hageman/Heard
Date Recei	ved:	10/22/20	Analyst.	Trageman/riearu
Date Recei Date Colle		10/13-14/20	Date of Analysis:	10/28/20

PC	DLYNUCI	LEAR AR	OMATIC	HYDRO	CARBO	ONS	
	FIELD ID SB-8 @ 5'	FIELD ID SB-8 @ 10'	FIELD ID SB-9 @ 5'	FIELD ID SB-9 @ 10'	FIELD ID SB-10 @ 5'	FIELD ID SB-10 @ 15'	
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Aromatics, ppm	220173	220174	220175	220176	220177	220178	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Chrysene	BDL	BDL	0.052	BDL	BDL	BDL	0.050
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Fluoranthene	BDL	BDL	0.055	BDL	BDL	BDL	0.050
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Pyrene	BDL	BDL	0.050	BDL	BDL	BDL	0.050

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	October 29, 2020
Attention: Mr. G		Hoagland	Reference #	43918
Address:	3433 Sie	rra Drive	P.O. #	PITTS.G#4CH.02
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Matrix:		soil	Extraction Date:	10/26/20
Sample Mic		10100100	A read and a read	TT /TT 1
	ved:	10/22/20	Analyst:	Hageman/Heard
Date Recei		10/22/20 10/12-14/20	Analyst: Date of Analysis:	Hageman/Heard 10/28-29/20

PC	DLYNUCI	LEAR AR	OMATIC	HYDRO	CARBO	NS	
	FIELD ID SB-11 @ 10'	FIELD ID SB-11 @ 15'	FIELD ID SB-12 @ 10'	FIELD ID SB-12 @ 15'	FIELD ID DW1 @ 5'	FIELD ID DW1 @ 15'	
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Aromatics, ppm	220179	220180	220181	220182	220183	220184	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Er

Kevin Doriety Analytical Chemist

<ol> <li>Is the client and the sample collector(s on report?</li> </ol>	) accurately noted	NO	Yes	NO	YES	
2. Do all dates match the COC on the rep	oort?	NO	YES	NO	YES	/
3. Is the purchase order ID (PO) and proj noted on report?	ect ID accurately	NO	YRS .	NO	YES	/
4. Are all methods and method references	s correct on report	t? NO	YES	NO	YES	
5. Do the Field ID(s) and the Lab ID(s) co COC?	orrespond to the		YES	NO	YES	
6. Is the report formatted correctly?	miter	1 NO	YES	NO.	YES	
7. Does the following information on rep printout information from the analytic						
Sample Matrix		NO	YES	NO	YES	-
Analyst		NO	YBS	NO	YES	
Analysis Date/Time	Me	- 00	YES	NO	YES	
Analyte concentratio	on MA	NO	YES	NO	YES	
Units		NO	YES	NO	YES	
Dilution Factors/Con	nversions	NO	YES	NO	YES	
Detection/Reporting	;/Quant. Limits	NO	YES	NO	YES	
QC Reviewed:			TES		YES	
Initial*:		N	1)H	K		
* MJH = Mic	ehael Heard, KD = Ke			an, KH = Kelly F	lester	
PDF: Huter, Hoogland	· · ·	43919	0			
Notes:	Invoic		7 rland Environmenta	ıl Co., Inc.		

Date Received: 10/22/20	Invoice #	439	18	
Method of Delivery: <u>Itand</u>	Client:	439 Sphe		
1. Did any containers arrive broken?		YES	MO	
* If so, please state field ID with analysis of broke	n sample(s)			
2. Were cooler(s) sealed upon arrival?		VYES	NO	NA
3. Were the samples received at the proper teamperate	ure (4°C +/- 2°C)?	VES	NO	NA
4. Did a chain of custody accompany the samples?		VTÉS	NO	
* Was it properly filled out?		UTES	NO	
5. Were correct containers used for the analysis reque	sted?	VYES	NO	
6. Were all containers properly preserved?		YES	NO	L NA
7. Were all water samples received at the proper pH?		YES	NO	INA
8. If VOA vials were present, was there any head spa	ce?	YES	NO	LNA
* If so, please state field ID of deficient sample(s):				-
9. Were all containers properly labeled and match cha	in of custody?	VYES	NO	
10. Did containers arrive within holding time of analy	sis?	VYES	NO	
* If not, please state field ID and analysis of sampl	e(s) out of holding time:			
11. Was client informed of any/all deficiencies in sam	ple check-in?	YES	NO	MA
12. Were any samples rejected?		YES	NO	]
* If so, please state field ID of rejected sample(s):	4			

				CHA	AIN OF CUSTODY	Z	SEND RE	PORT TO:			Invoice #	439	PI	
Sutherland				ANA	ALYSIS REQUEST	Γ	Name:	<u>.</u>				9.00	10	
Environmental Company, Inc.							Company!	SPHERE	3EN	6,10	C			
2515 5th Avenue South							Address:	3433	SKER	ARE	102		Page	of
Birmingham, AL 35233								4000	UR I	123	5216			
PHONE: (205)581-9500				Client P.O. #			Phone#:	205 4	03-3	317	Cell #	_		
E-mail: suthlab@bellsouth.net							E-mail(s):					PDF:	yes	no
							1923	S BLADIN		1.1.5	dise.			
CLIENT: ROGER	DITT	-		PROJECT	NITTE COS	2 11 1		SAMPLER		20 57	.6			
huda	FIL	5	1. 1	NAME/#:	PITTS GRE	7#4	7	(print)	SIS REQUI	25TED/M				In the second second
						9			313 KLQ01	201120710	EIIIOD			-
DATE DELIVERED: 10	100	100			A STATE OF	A								10 1 16
DATE DELIVERED:	122	A				H								Number
LAB ID FIELD	ID	DATE	TIME	SAMPLE DE	SCRIPTION (matrix)	8270C								of sample
the second se		Collected												containers
220167 9850		10/23		sal	DRING	41								1
220 168 58 58	15'	Wicko	0950		1	r								1
220 169 56 2	10'	10/12/20	1040			V								1
220170 586 a	15'	iolizizo	1058			V								1
220171567@	51	10/13/2	(19.6)			V								1
220172 SBTG	-10'	10/13/20			/	V								1
220 173 5888	1	10/13/20	1120		(	~								,
000	10'	10/13/20	110		1	~								1
220175 509 6	S)	10/14/2			)	1								1
000	0'	111	1030	/		1								1
220176 554(3		0/4/20	1050	(		V								0
2201753100		10 Hyzo	0920										-	1
220 178 58100	151	0/04/20	0955		)	1								1
220179 SBI @	10'	10/14/20	1420	-	(	r								l
220180 58112	15'	10/14/20	1435	<	-	-								1
Preservative: (a)HCL, (b)HNO <sub>3</sub> , (c														Last revised
Container type: (a) Amber, (g) (	Glass, (p) H			, (air) air bag Received by:	Container:		CASS	5						12/13/19
Relinquished by Sampler: Signed:		Date	Time	Signed:		Date	Time		Y	Tur	n Around T		3-DAY	1-DAY
								Standard:	~		RUSH:		2-DAY	SAME DAY
Relinquished by: Signed:	7	Date		Received by:		Date	Time	Remarks:						
Inglieu The Ula	Alle	10pzp	1:44	Signed:										
Relinquished by:		Date	Time	Received in Lab	by:	Date	Time	1						
Signed:				Signed:	ul	10/22/20	1:44	Refrigerated	upon receipt:	10	no			

Sutherland				CHAIN OF CUSTOD ANALYSIS REQUES		Name:	PORT TO		Invoice #	439	18	
Environmental (	Company, Inc.					Company:	SDHGD	23 20	C, INC			
2515 5th Avenue	South					Address:					Page	of
Birmingham, AL	. 35233						_					
PHONE: (205)58	81-9500			Client P.O. #		Phone#:			Cell #			
E-mail: suthlab@	bellsouth.net			chun 1101#		E-mail(s):				PDF:	yes	no
1		and the second	P	10. A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2. Photos	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		5. 31 2.4				
CLIENT:	SR PITTS	>		PROJECT NAME/#: PLTTS GLO	#4		SAMPLER (print)	R(S):	FWS			
NEW REAL						-	ANALY	SIS REQUEST	ED / METHOD	1		1111
and deat					P							1.000
DATE DELIVE	CRED:				À							Spendelle
and the second	15.000	DATE	TDAE		4)							Number
LAB ID	FIELD ID	DATE Collected	TIME Collected	SAMPLE DESCRIPTION (matrix)	8270 C	,				1.1.1		of sample containers
220181	5612 0 10'	10/420		Call BADANI	1							1
220182	SB12 @ 15'	10/17/20		Sall Bound	V							
220183	Part -											
220184		10/12/2	1345		4		-					
220104	DW180 15'	10/1/20	1410		/							
					_						1	
					_							
1.											-	
1.1												
		-			-							-
		-	-		-							-
Precerumive: (a)H	CL, (b)HNO <sub>3</sub> , (c)H <sub>2</sub> SO <sub>4</sub> ,		Na S O (f	) H <sub>3</sub> PO <sub>4</sub> , (g)Zn Acetate <b>Preservativ</b>								Last revised
	(a) Amber, (g) Glass, (p		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									12/13/19
Relinquished by	Sampler:	Date	Time	Received by:	Date	Time			Turn Around	Time		
Signed	arten	what	61:44	Signed:			Standard:	x	RUSH:		3-DAY 2-DAY	1-DAY SAME DAY
Relinquished by:		Date	Time	Received by:	Date	Time	Remarks:					
Signed:				Signed:								
Relinquished by:		Date	Time	Received in Lab by:	Date	Time	1					
Signed:				Signed	10/22/20	1:44	Refrigerated	upon receipt:	tes no			

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	November 2, 2020	
Attention:	Mr. Greg Hoagland	Reference #	43880	
	3433 Sierra Drive	P.O. #	PITTS.G#4CH.02	
	Hoover, AL 35216	Project ID:	Pitts Grocery #4 Center Hill	
Sample Mat	rix: soil	Analytical		
Date Receiv	red: 10/15/20	Analyst:	Kevin Doriety/D. Brown	
Date Collec	ted: 10/14/20	Date of Analysis:	10/16/20-11/2/20	
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 pcf	Dry Bulk Density g/cc	Specific Gravity @ 20° C	Porosity cc /cc-soil	Fractional Organic Matter Content g-ash/ g-soil	Fractiona Organic Carbon Content g-carbon g-soil				
Field ID	Lab ID	(1)	(1a)	(2)	(2)	(3)	(4)	(5)	(6)				
Shelby Tube	219965	0.2330	0.4665	125	2.00	2.70	0.2584	0.0127	0.0074				

#### **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,

Kin Dougt

Kevin Doriety Analytical Chemist

MD, Hunter		3880		
	vin Doriety, MSH	= Matt Hagema	in, KH = Kelly He	ester
QC Reviewed:		XXC3		YES
Detection/Reporting/Quant. Limits	NO	TRS	NO	YES
Dilution Factors/Conversions	NO	XES	NO	YES
Units	NO	YKS	NO	YES
Analyte concentration	NO	YES	NO	YES
Analysis Date/Time	NO	YES	NO	YES
Analyst	NO	PKS	NO	YES
Sample Matrix	NO	YKS	NO	YES .
atted correctly?	NO	YES	NO	YES
and the Lab ID(s) correspond to the	NO	YXS	NO	YES
nd method references correct on report	? NO	YES	NO	YES
der ID (PO) and project ID accurately	NO	YX(S)	NO	YES
n the COC on the report?	NO	YX(S)	NO	YES
e sample collector(s) accurately noted	NO	153	NO	YES
	h the COC on the report? der ID (PO) and project ID accurately and method references correct on report ) and the Lab ID(s) correspond to the atted correctly? g information on report correspond to the ion from the analytical instrumentation Sample Matrix Analyst Analyst Analysis Date/Time Analyte concentration Units Dilution Factors/Conversions Detection/Reporting/Quant. Limits QC Reviewed: Initial*: * MJH = Michael Heard, KD = Ke	h the COC on the report? NO der ID (PO) and project ID accurately NO and method references correct on report? NO and the Lab ID(s) correspond to the o and the Lab ID(s) correspond to the ion from the analytical instrumentation: Sample Matrix NO Analyst NO Analyst NO Analyst Date/Time NO Units NO Dilution Factors/Conversions NO Detection/Reporting/Quant. Limits NO QC Reviewed: Initial*:	h the COC on the report? NO Second project ID accurately NO Second and method references correct on report? NO Second and the Lab ID(s) correspond to the NO Second atted correctly? NO Second atted correctly? NO Second atted correctly? NO Second atted correctly? NO Second atted correctly? NO Second Analyst Analyst Analyst NO Second Analyst NO Second NO NO Second NO NO Second NO NO NO NO NO NO NO NO NO NO	h the COC on the report? NO der ID (PO) and project ID accurately nd method references correct on report? NO and the Lab ID(s) correspond to the NO atted correctly? NO g information on report correspond to the ion from the analytical instrumentation: Sample Matrix NO Analyst Analyst NO MO MO MO MO MO MO MO MO MO M

Date Received: 10 15 20	Invoice #	438	380	
Method of Delivery: Itand	Client:	438 Sphe	in3	
. 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	XA
3. Were the samples received at the proper teamperatu	re $(4^{\circ}C + 2^{\circ}C)? \dots$	YES	NO	MA
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 reques	sted?	VYES	NO	]
6. Were all containers properly preserved?		YES	NO	LNA
7. Were all water samples received at the proper pH? .	[	YES	NO	- NA
3. If VOA vials were present, was there any head space	e?[	YES	NO	MA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chai	n of custody?	YES	NO	]
10. Did containers arrive within holding time of analys	is? [	YES	NO	]
* If not, please state field ID and analysis of sample	e(s) out of holding time: _			
11. Was client informed of any/all deficiencies in samp	ble check-in?	YES	NO	-NA
2. Were any samples rejected?	[	YES	-N0	]
* If so, please state field ID of rejected sample(s):				

																											l	13	8	80	)		
SUTHERLAND ENVIRONMEN	TAL	2515 5	th Av	/enu	e Sou	th			Pho	ne:	20	5 58	31 9	9500	)												SI	P	H	F	R	F	3
COMPANY, INC.		Birmin	ighar	n, AL	. 352	33				ax:																							INC
Consultant Name:	SPHERE 3 Er	ngineerii	ng, In	c.																Pag	e #:	Pag	je 1	of	1								
	3433 Sierra D							_						-							- 1 C - 1				_	gine	ering	, Inc.					
City/State/Zip:	Hoover, Alaba	ma 352	216							1					_				Rep	oort	To:	gre	g@s	sph	eire	.com	n/jon(	@spl	here	93.cc	m/m	ail or	iginal
	Mr. Roger Pitt												_								:t #:		_			.02			_				
Consultant Project Mgr:	Statement and the second s		db	-		-	-	-		-			_				US	ST In			10	-		-	-				_				
Consultant Telephone Number:	and the second s	7		-		Fa	x Ne	0.:	(205	) 40	3.3	318	-	_	_								_			_	enter	Hill	_				
Sampler Name: (Print)		- Ag	2	2	+			-	>	-	-	_			-						SS:	-		and a second	states in case of the local division in which the local division in the local division i	and the second division of the second divisio	01		_				
Sampler Signature:		H	6	a	m	10			2		-	-					Jity	, Co	unty	, 50	-		-	-	-	limar	n, AL	-	-				
				1		-		F	res	erva	tive		+	Т	Ma	trix	T	+	T	-	r í	Ana	yze	-	and Alashana		T	-	10		10		
Sample ID or Field ID SHELBY TUBE 219965	Date Sampled	Time Sampled	No. of Containers Shipped	X Grab	Composite	Field Fittered	Methanol	Sodium Bisulfate	HCI (Blue Label)	H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> Glass(Yellow Label)	-	X None (Black Label)	Wastewater	Drinking Water	-	X Soll Other (snerifu): MATER	4		X Dry Bulk Density (pcf)	-	X Specific Gravity @ 20 C	X Porosity	X Fractional Organic Matter Content	X Fractional Organic Carbon Content			RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	A PDF Results (yes or no)		Due Date of Report	
																							-					+					
Comments/Special Instructions:	Date Date	20	12	me Me	Rece		DY/			1	/			10	Da		1	Tim Tim 2.5	ne	QC Lev Lev Lev Site	San VO( Deliv el 2 el 3 el 4 Spe	nper nple Cs F <u>vera</u>	atur Col ree bles	re U ntai of I (ple	plea	Rec Inta dspa <u>circle</u>	ce? e one	Y Y	le w		IA. THER	2LAN	D

### ADEM Watermark

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	October 20, 2020
Attention:	Address: 3433 Sierra Drive		Reference #	43879
Address:			P.O. #	PITTS.G#4CH.02
	Hoover, A	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	triv	soil	Applytical	
Sample Ma Date Recei		soil 10/15/20	Analytical Analyst:	Kevin Doriety
	ved:			Kevin Doriety 10/19/20

	ME	TALLI	C ANAL	YTES	
	FIELD ID				
	SOIL COMP-1				•
Analyte, mg/Kg	LAB ID				Detection
as Total	219964				Limit, mg/Kg
Lead	33				1.0

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

/QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Dorg

Kevin Doriety Analytical Chemist

Date Received: 10 15 20	Invoice #	43	3879 ere3	
Method of Delivery: <u>Hand</u>	Client:	Spr	urs	
1. Did any containers arrive broken?		YES	NO	]
* If so, please state field ID with analysis of broker	n sample(s)			-
2. Were cooler(s) sealed upon arrival?		YES	NO	CHA
3. Were the samples received at the proper teamperatu	ure $(4^{\circ}C + 2^{\circ}C)? \dots$	YES	NO	MA
4. Did a chain of custody accompany the samples?		VYES	NO	]
* Was it properly filled out?		YES	NO	
5. Were correct containers used for the analysis reque	sted?	VÉS	NO	]
6. Were all containers properly preserved?		YES	NO	UNA
7. Were all water samples received at the proper pH?		YES	NO	-NA
8. If VOA vials were present, was there any head space	ce?[	YES	NO	MA
* If so, please state field ID of deficient sample(s):				-
9. Were all containers properly labeled and match cha	in of custody?	VYES	NO	]
0. Did containers arrive within holding time of analy	sis? [	YES	NO	]
* If not, please state field ID and analysis of sampl	e(s) out of holding time:			
11. Was client informed of any/all deficiencies in sam	ple check-in?	YES	NO	UNA
12. Were any samples rejected?	[	YES	NO	]

land/Hunter Invoi	ice # 43879	
* MJH = Michael Heard, KD = K	Levin Doriety, MSH = Matt Hagen	nan, KH = Kelly Hester
Initial*:	HA	165
QC Reviewed:	YES	YES
Detection/Reporting/Quant. Limits	NO YES	NO YES
Dilution Factors/Conversions	NO YES	NO YES
Units	NO YES	NO YES
Analyte concentration	NO YES	NO YES
Analysis Date/Time	NO YES	NO YES
Analyst	NO YES	NO YES
Sample Matrix	NO YES	NO YES
t formatted correctly?	NO YES	NO YES
d ID(s) and the Lab ID(s) correspond to the	NO YES	NO YES
hods and method references correct on repor	rt? NO YPS	NO YES 4
nase order ID (PO) and project ID accurately eport?	NO YES	NO YES
s match the COC on the report?	NO YES	NO YES
t and the sample collector(s) accurately noted	d NO YES	NO YES
	s match the COC on the report? hase order ID (PO) and project ID accurately port? hods and method references correct on report d ID(s) and the Lab ID(s) correspond to the t formatted correctly? llowing information on report correspond to formation from the analytical instrumentation Sample Matrix Analyst Analysis Date/Time Analyte concentration Units Dilution Factors/Conversions Detection/Reporting/Quant. Limits QC Reviewed: Initial*:	s match the COC on the report? NO YES hase order ID (PO) and project ID accurately NO YES port? hods and method references correct on report? NO YES d ID(s) and the Lab ID(s) correspond to the formatted correctly? NO YES llowing information on report correspond to the formation from the analytical instrumentation: Sample Matrix NO YES Analyst NO YES Analyst Date/Time NO YES Analyte concentration NO YES Dilution Factors/Conversions NO YES Detection/Reporting/Quant. Limits NO YES

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COMPANY, INC.		Birmin	ighan	n, AL	352	33				Fax	: 2	05 5	81	95(	04											E	NO	GIN	IE	ER	IN	G, I N (
Consultant Name:		and the second se	ng, Ind	).																1	Page	#: F	age	1 01	F 1							
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	Mr. Roger Pitt	and all and a second se						_			_		_			_					oject			Concerns the local	and the second division of the local divisio	.02						
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Sampler Signature:		A	60	NO	4	~	-	2	-	_	_	_			_		C	ity,	Col	inty	, Sta	-				Illmar	ı, AL	-				
						_		1	Pres	serva	ativ	e			M	Aatr	ix	-		-		A	nalyz	ze Fo	or:							
Sample ID or Field ID SOIL COMP-1 219964 TEMPERATURE BLANK	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	X Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	NaCH ( Orange Label) H-SOA 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	lios X		010	× TEMPERATURE								RUSH TAT (Pre-Schedule)	Z TAT request (in Bus. Days)	Y		Due Date of Report
Comments/Special Instructions:		4 F								_			_	_		1				L	Lab	orate	prv (	Com	men	IS:						
Relinquished by:	Date COLS/2	22	Tir 12	ne SV	Rece	ived	by:						_	Т		Date	9		Tim		QC [ Leve	Tem Sam VOC Delive	perat ple C s Fre	ture l Conta Se of	Upor ainen Hea	n Rec s Inta idspa	ice?	Ø	NA,	N N N	4	
Relinquished by:	Date		Tir		Rece	ived	N	h	/	1						Date			Tim 50	)		I 4 Spec				ase pr ch spe					HERI	_AND

### ADEM Watermark

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	October 26, 2020
Attention: Mr. Greg Hoagland		Reference #	43910	
Address: 3433 Sierra Drive		P.O. #	PITTSG#4CH.02	
	Hoover,	AL 35216	Project ID:	Pitt's Grocery #4 Center Hill
Sample Ma	.taire	soil	Ampletical	
Sample Ma		10/21/20	Analytical	
DI D'				
Date Recei			Analyst:	M. Heard
Date Recei Date Colle		10/16/20	Date of Analysis:	10/26/20

TOTAL PETROLEUM HYDROCARBONS									
FIELD ID	LAB ID	TPH, PPM	D.L., PPM						
UST-1	220114	117	10						
UST-2	220115	116	10						

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

X /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Hai Dorg

Kevin Doriety Analytical Chemist

1. Is the client and the sample collector(s) accurately noted	1 (NO YES	NO
on report?		
2. Do all dates match the COC on the report?	NO YAS	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 repor	t? NO YES	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NOYES	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		
Sample Matrix	NO YES	NO YES
Analyst	NO XES	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	NOXES	NO YES
Units	NO	NO YES
Dilution Factors/Conversions	NO	NO YES
Detection/Reporting/Quant. Limits	NO	NO YES
QC Reviewed:	YES	YES
Initial*:	Mtm	13
* $MJH = Michael Heard, KD = K$	evin Doriety, MSH = Matt Hagema	an, KH = Kelly Hester
PDF: HOAJ and, Hunter Invoi	43910	
Notes:	Sutherland Environmenta	l Co., Inc.

Date Received: 10 21 20	Invoice #	43	910	
Method of Delivery: Hand	Client:	Spl	910 ren 3	
1. Did any containers arrive broken?	[	YES	LNO	]
* If so, please state field ID with analysis of broke	n sample(s)			_
2. Were cooler(s) sealed upon arrival?	[	YES	NO	NA
3. Were the samples received at the proper teamperate	ure $(4^{\circ}C + 2^{\circ}C)? \dots$	VIES	NO	NA
4. Did a chain of custody accompany the samples?	[	MES	NO	]
* Was it properly filled out?	[	VIES	NO	
5. Were correct containers used for the analysis reque	sted?	VYES	NO	]
5. Were all containers properly preserved?	[	VYES	NO	NA
7. Were all water samples received at the proper pH?	[	YES	NO	MA
3. If VOA vials were present, was there any head space	ce?[	YES	NO	NA
* If so, please state field ID of deficient sample(s):				_
9. Were all containers properly labeled and match cha	in of custody?	WES	NO	]
0. Did containers arrive within holding time of analy	sis? [	YES	NO	]
* If not, please state field ID and analysis of sampl	e(s) out of holding time: _			_
11. Was client informed of any/all deficiencies in sam	ple check-in?	YES	NO	-NA
2. Were any samples rejected?	[	YES	NO	
* If so, please state field ID of rejected sample(s):				

																														110		
SUTHERLAND ENVIRONMEN	TAL	2515 51	th Av	enue	Sou	th			Phe	one	: 2	05 5	81	950	00											S	P			ER	?E	3
COMPANY, INC.		Birmin	ghan	n, AL	352	33			1	Fax	: 2	05 5	581	950	04																	, INC
Consultant Name:	SPHERE 3 Er	ngineerin	ig, Ind	<b>5</b> .												_				P	age #	: Pa	age '	1 of 1	1							
	3433 Sierra D											_				_										neerin						
City/State/Zip:			16			-	_	_			_		_	_	_	_			1								jon@	Dsph	ere:	3.com	ı, ma	il origin
	Mr. Roger Pitt		_			_		_								_					ect #	-			_	)2	_					
Consultant Project Mgr:			-			E			(00)	-	00.0	0040		_	_	_	l	JST			t No.		_			10		en	_			
Consultant Telephone Number:			Ich			Fa	XNO	0.:	(20)	5) 4	03.	3318	3	_	-	-						-			-	4 Cen	ter H	1111	-			
Sampler Name: (Print) Sampler Signature:						-			_						-		Ci				dress	_			-	lman,	AL	-				
Sampler Signature.	4 m	140	en	~	-	-	-	_	-			-		_			_	.y, •		iiiy,	Jiale	_				inan,	AL	-	_			
	1		-		1	-			Pres	serv	1	T		-	N	/latri	X	-	-			Ana	alyze	For	-	-		1	6			
Sample ID or Field ID UST-1 UST-2 TEMPERATURE BLANK	Date S B Date S Date S		L No. of Containers Shipped	Grab	X X Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	NaOH ( Orange Label) H-SO. Plastic (Vellow I abel)	H-SO <sub>4</sub> Glass(Yellow Label)	HNO <sub>3</sub> (Red Label)	→ → None (Black Label)	Groundwater	Wastewater	Drinking Water Sludge	X X Soil	X Other (specify): WATER	TPH 418.1	TEMPERATURE								RUSH TAT (Pre-Schedule)	equest (in Bus.	-		
									-	-	-				-	-					_	-	-		-		+			+		
																					aho	Inter			ont							
Comments/Special Instructions:														,				1			S	emp amp DCs	eratu le Co Free	ure U ontail e of H	pon ners leac	Rece Intac dspac	ct? ce?	Y	1		's	
Relinquished by:	Date 10/20/20	020		me 15	Rece	eived	by:	6		e		1				Date		51	Tim S	I	<u>_evel</u> _evel	2	able	s (ple	ase	circle	one)					
Relinquished by:	Date 10/21/2	ili o	1		Rece	eived	S/	N	1	V	/	1				Date	Э		Tim 83	e	_evel Site S	4 Decif				se pre					HERLA	AND

#### **ADEM Watermark**





Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	May 11, 2020
Attention:	Mr. Greg	Hoagland	Reference #	42931
Address:	ess: 3433 Sierra Drive Hoover, AL 35216		P.O. #	PITTS.G#4CH.01
	Hoover, A	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	trix:	water	Analytical	
Sample Ma Date Recei		water 5/5/20	Analytical Analyst:	Hageman/Heard
	ved:			Hageman/Heard 5/7/20

<b>VULA</b>	TILE ORG					IALE	
	FIELD ID MW-1	FIELD ID MW-2	FIELD ID MW-3	FIELD ID MW-4	FIELD ID DUP-1		
Volatile	LAB ID		Detection				
Organic, mg/L	214538	214539	214540	214541	214542		Limit, ppm
Benzene	1.630	0.848	0.232	0.011	0.884		0.001
Toluene	0.078	0.520	0.086	BDL	0.572		0.001
Ethylbenzene	1.260	2.620	0.155	BDL	2.680		0.001
Xylenes, o,m,p	2.980	7.750	0.325	BDL	8.480		0.003
MTBE	0.288	0.016	0.013	BDL	0.016		0.001
Naphthalene					0.848		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

/QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Dougt

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	May 11, 2020
Attention:	Mr. Greg Hoagland	Reference #	42931
Address:	3433 Sierra Drive	P.O. #	PITTS.G#4CH.01
	Hoover, AL 35216	Project ID:	Pitts Grocery #4 Center Hill
	and the second second		
Sample Ma	trix: water	Extraction Date:	5/7/20
		Extraction Date: Analyst:	5/7/20 Hageman/Heard
Sample Ma Date Recei Date Collec	ved: 5/5/20		

<b>POLYNUCLEAR AROMATIC HYDROCARBONS</b>												
			FIELD ID									
	MW-1	MW-2	MW-3	MW-4								
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID		Detection						
Aromatics, ppm	214538	214539	214540	214541		Limit, ppm						
Acenaphthene	BDL	BDL	BDL	BDL		0.001						
Acenaphthylene	BDL	BDL	BDL	BDL		0.001						
Anthracene	BDL	BDL	BDL	BDL		0.001						
Benzo(a)anthracene	BDL	BDL	BDL	BDL		0.001						
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL		0.0001						
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL		0.0001						
Benzo(ghi)perylene	BDL	BDL	BDL	BDL		0.0005						
Benzo(a)pyrene	BDL	BDL	BDL	BDL		0.0001						
Chrysene	BDL	BDL	BDL	BDL		0.0005						
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL		0.001						
Fluoranthene	BDL	BDL	BDL	BDL		0.001						
Fluorene	BDL	BDL	BDL	BDL		0.001						
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL		0.001						
Naphthalene	0.167	0.381	0.015	BDL		0.001						
Phenanthrene	BDL	BDL	BDL	BDL		0.001						
Pyrene	BDL	BDL	BDL	BDL		0.001						

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

NY /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kin Dorge

Kevin Doriety Analytical Chemist

#### Sutherland Environmental Read and Review Checklist

<ol> <li>Is the client and the sample collector(s) a on report?</li> </ol>	accurately noted NO	XO	NO YES
2. Do all dates match the COC on the repor	t? NO	YXS	NO YES
3. Is the purchase order ID (PO) and projec noted on report?	t ID accurately NO	¥ s	NO YES
4. Are all methods and method references of	correct on report? NO	T)K)	NO YES
5. Do the Field ID(s) and the Lab ID(s) cor COC?	respond to the NO	YX	NO YES
6. Is the report formatted correctly?	NO	YDS	NO YES
7. Does the following information on repor printout information from the analytical	t correspond to the instrumentation:		
Sample Matrix	NO	1 Des	NO YES
Analyst	NO	j× s	NO YES
Analysis Date/Time	NO	THE	NO YES
Analyte concentration	n NO	¥ <del>2</del> 9	NO YES
Units	NO	159	NO YES
Dilution Factors/Con	versions NO	(Cark	NO YES
Detection/Reporting/	Quant. Limits NO	YES	NO YES
QC Reviewed:		XES	YES
<i>Initial*:</i> * MJH = Mich	aael Heard, KD = Kevin Doriety, I	MSH = Matt Hagema	n, KH = Kelly Hester
PDF: Hoagland, Hunter	Invoice #	42931	
Notes:	Suth	erland Environmental	Co., Inc.

### Sutherland Environmental Company Inc.

Date Received:5-5-20Invoice:Method of Delivery:HandClient:	# <u>42931</u> 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 $(4^{\circ}C + 2^{\circ}C)? \dots$	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 holding tir	ne:
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):	

42931

#### SPHERE 3 ENGINEERING, INC

Consultant Name:	SDHERE 3 Fr	ngineerin	a Inc																	Pag	je #	Pag	le 1	of 1							
	3433 Sierra D		9, 110.		-	-									-				Inv			-			gineer	ring, In	IC.				
City/State/Zip:			16					_	-	-									Re	por	t To	: greg	g@s	phere	3.con	n; jon(	@sph	iere	3.cor	n, ma	ail origina
	Mr. Roger Pitt																		Ρ	roje	ct#	PIT	TS.C	S#4CH	H.01						
Consultant Project Mgr:								-	-								US	T In	ncid	lent	No.	: UST	F20-	02-02							_
Consultant Telephone Number:						Fax	No	.: (2	205)	403	3.33	18						F	aci	lity	ID #	: Pitts	s Gro	ocery	#4 Ce	enter I	Hill				_
Sampler Name: (Print)				-														Si	te A	Addr	ess	: 287	05 H	lighwa	ay 91						
Sampler Signature:		10	1													C	City,	, Co	unt	y, S	tate	: Har	icevi	ille, C	ullma	an, AL					
								Pr	ese	rvat	ive		T		Mat	trix		T				Anal	yze	For:			7		_		
Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisultate	NaOH ( Orange Label)	H <sub>2</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)	Groundwater	Wastewater	Drinking Water	Sludge	Soil Other /concist/:	N		RTEX/MTRF/NAPH 8260B	TEMPEDATIPE						RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days	.PDF Results (yes or no)		Due Date of Report
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1					-			+	+	+		-	ĺ,	-			+	,	-	x	1							N	-		
MW-2 214539	5/4/2020	15:33	4	Х	_		$\vdash$	+	-		-	+		-	-		+		1		+	-			-		-	N	-		
MW-3 214540	5/4/2020	14:22	4	Х				-	-		-	+	>	-	-	-	+	>	-	X	+	-		-	+	++	+		_		
MW-4 214541	5/4/2020	14:58	4	Х				-				-	>		-		-	>	$\left( \right)$	X	-	-			-	++	+	N			
DUP-1 214542	5/4/2020		3	Х	-								)	<			-	-	+	)	X	-			-		+	N	Y		
TEMPERATURE BLANK			1														1	X	-	-	)	(			-		+	$\square$	+		
																				_					-		+	$\square$			
																												$\square$			
Comments/Special Instructions:	1			1		1													-		T S N	empe ample OCs	eratu e Co Free	e of He	oon Re ers In eadsp	pace?	Y	ວິດ			
Relinquished by:	Date 5/5/20	0.0		me	Rec	eived	by:									ate			ime	L	eve eve	2 3	ables	s (plea	ase cir	rcle on	<u>e)</u>				
Relinquished by:	1 Date	9		me	Rec	Pu	by:	7	Zn	W	/			,		ate 5/2	20			C		Specifi		yes, p r or at							

Phone: 205 581 9500

Fax: 205 581 9504

2515 5th Avenue South

Birmingham, AL 35233

SUTHERLAND ENVIRONMENTAL

COMPANY, INC.

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.		Report Date:	October 28, 2020
Attention:	Mr. Greg	Hoagland	Reference #	43911
Address:	3433 Sie	rra Drive	P.O. #	PITTSG#4CH.02
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	trix.	water	Analytical	
		water 10/21/20	Analytical Analyst:	Hageman/Heard
Sample Ma Date Recei Date Collec	ved:		the second se	Hageman/Heard 10/23-26/20

VOLA	ATILE OR	GANICS	BTEX/	MTBE/N	АРНТН	ALENE	
	FIELD ID MW-3	FIELD ID MW-4	FIELD ID MW-5	FIELD ID MW-6	FIELD ID MW-7	FIELD ID MW-8	
Volatile	LAB ID	Detection					
Organic, mg/L	220116	220117	220118	220119	220120	220121	Limit, ppm
Benzene	0.233	0.024	0.001	BDL	0.161	0.212	0.001
Toluene	0.299	BDL	BDL	BDL	0.079	0.008	0.001
Ethylbenzene	0.264	0.005	BDL	BDL	1.350	0.518	0.001
Xylenes, o,m,p	0.712	0.009	BDL	BDL	5.140	1.090	0.003
MTBE	0.007	BDL	BDL	BDL	0.004	0.080	0.001
	FIELD ID						
<b>X7 1 .'1</b>	MW-9	MW-10	MW-11	MW-12	MW-DW1	DUP-1	
Volatile	LAB ID	Detection					
Organic, mg/L	220122	220123	220124	220125	220126	220127	Limit, ppm
Benzene	BDL	0.001	0.012	0.141	BDL	0.244	0.001
Toluene	BDL	BDL	0.003	BDL	BDL	0.316	0.001
Ethylbenzene	0.002	BDL	0.106	0.096	BDL	0.284	0.001
Xylenes, o,m,p	0.006	BDL	0.147	0.028	BDL	0.790	0.003
MTBE	BDL	0.003	0.007	0.041	0.092	0.008	0.001
Naphthalene						0.107	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,

Aci

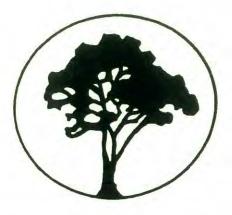
Kevin Doriety Analytical Chemist

MH /QAQC

EPA Laboratory ID AL01084

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	October 28, 2020
Attention:	Mr. Greg	Hoagland	Reference #	43911
Address:	3433 Sie	rra Dr.	P.O. #	PITTSG#4CH.02
	Hoover,	AL 35216	Project ID:	Pitt's Grocery #4 Center Hill
Sample Ma	trix:	water	Extraction Date:	10/22/20
		water 10/21/20	Extraction Date: Analyst:	10/22/20 Hageman/Heard
Sample Ma Date Recei Date Collec	ved:			

POI	YNUCL	EAR AR	OMATIC	HYDR	OCARB	ONS	
	FIELD ID MW-3	FIELD ID MW-4	FIELD ID MW-5	FIELD ID MW-6	FIELD ID MW-7	FIELD ID MW-8	
Polynuclear	LAB ID	Detection					
Aromatics, ppm	220116	220117	220118	220119	220120	220121	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Naphthalene	0.040	BDL	BDL	BDL	0.226	0.093	0.001
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001

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

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	October 28, 2020
Attention:	Mr. Greg	Hoagland	Reference #	43911
Address:	3433 Sie	rra Dr.	P.O. #	PITTSG#4CH.02
	Hoover,	AL 35216	Project ID:	Pitt's Grocery #4 Center Hill
Sample Ma	trix:	water	Extraction Date:	10/22/20
		water 10/21/20	Extraction Date: Analyst:	10/22/20 Hageman/Heard
Sample Ma Date Recei Date Collec	ved:			

POI	YNUCL	EAR AR	OMATIC	HYDR	OCARB	ONS	
	FIELD ID MW-9	FIELD ID MW-10	FIELD ID MW-11	FIELD ID MW-12	FIELD ID MW-DW1		
Polynuclear Aromatics, ppm	LAB ID 220122	LAB ID 220123	LAB ID 220124	LAB ID 220125	LAB ID 220126		Detection Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL		0.001
Acenaphthylene	BDL	BDL	BDL	BDL	BDL		0.001
Anthracene	BDL	BDL	BDL	BDL	BDL		0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL		0.001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL		0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL		0.0005
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL		0.0001
Chrysene	BDL	BDL	BDL	BDL	BDL		0.0005
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL		0.001
Fluoranthene	BDL	BDL	BDL	BDL	BDL		0.001
Fluorene	BDL	BDL	BDL	BDL	BDL		0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL		0.001
Naphthalene	BDL	BDL	0.031	0.011	BDL		0.001
Phenanthrene	BDL	BDL	BDL	BDL	BDL		0.001
Pyrene	BDL	BDL	BDL	BDL	BDL		0.001

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

/QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Dore

Kevin Doriety Analytical Chemist

#### Sutherland Environmental Read and Review Checklist

1. Is the clien on report?	t and the sample collector(s) accurately note		NO YES
	s match the COC on the report?	NO YES	NO YES
3. Is the purcl noted on re	nase order ID (PO) and project ID accurately eport?	NO YES	NO YES
4. Are all met	hods and method references correct on repo	rt? NO YES	NO YES
5. Do the Fiel COC?	d ID(s) and the Lab ID(s) correspond to the	NO YES	NO YES
6. Is the repor	rt formatted correctly?	K NO YES	NOYES
	ollowing information on report correspond to formation from the analytical instrumentation		
	Sample Matrix	NO YES	NO YES
	Analyst	NO YES	NO YES
	Analysis Date/Time	NO YES	NO YES
	Analyte concentration		NOYES
	Units	NO TRS	NO YES
	Dilution Factors/Conversions	NO	NO YES
	Detection/Reporting/Quant. Limits	NO	NO YES
	QC Reviewed:	XES	YES
	Initial*:	MUD	
110	* $MJH = Michael Heard, KD = K$	evin Doriety, MSH = Matt Hage	man, KH = Kelly Hester
PDF: HV	agiand, Hunter Invo	ice # 43911	
Notes:		Sutherland Environmen	ntal Co., Inc.

### Sutherland Environmental Company Inc.

Date Received: 10/21/20	Invoice #	430	111	
Method of Delivery: Hand	Client:	Spl	nere3	
1. Did any containers arrive broken?		YES	UN0	
* If so, please state field ID with analysis of broke	en sample(s)			_
2. Were cooler(s) sealed upon arrival?		YES	NO	NA
3. Were the samples received at the proper teamperat	ure $(4^{\circ}C + 2^{\circ}C)? \dots$	VES	NO	NA
4. Did a chain of custody accompany the samples?		VYES	NO	
* Was it properly filled out?		VYES	NO	]
5. Were correct containers used for the analysis reque	ested?	VYES	NO	
6. Were all containers properly preserved?		LYES	NO	NA
7. Were all water samples received at the proper pH?		LYES	NO	NA
8. If VOA vials were present, was there any head spa	ce?	YES	LHO	NA
* If so, please state field ID of deficient sample(s)				_
9. Were all containers properly labeled and match cha	ain of custody?	VES	NO	]
10. Did containers arrive within holding time of analy	vsis?	UTES	NO	]
* If not, please state field ID and analysis of samp	le(s) out of holding time:			
11. Was client informed of any/all deficiencies in san	nple check-in?	YES	NO	<b>V</b> NA
12. Were any samples rejected?		YES	NO	
* If so, please state field ID of rejected sample(s):				

																												43	391	1		
SUTHERLA	AND ENVIRONMEN	TAL	2515 5	th Av	enue	Sou	th			Pho	one:	20	05 5	81	950	00											S				PF	3
COMPANY			Birmin								Fax:																					INC
				5	.,																						- 14	011				, 110
	Consultant Name:	SPHERE 3 Er	ngineerir	ng, Ind	c.																1	age #	P	age 1	of 2							
	Address:	3433 Sierra D	rive																	1	nvo	ice To	: SF	HERE	E 3 Er	ngine	ering,	Inc.				
	City/State/Zip:			16					_			_		_	_		_					ort To						n@sr	ohere	3.com	1	
		Mr. Roger Pitt						_	_	_			_			_	_			R		oject #	_						_			
	Consultant Project Mgr:								-	1001	-	0.0	040		_	_	-		US			nt No										
Consul	Itant Telephone Number: Sampler Name: (Print)			1 Joh	neon		- Fai	XN	0.:	(205	5) 40	13.3	3318	5			-					ty ID # Idress						r Hill				
	Sampler Signature:		. /	10	ligon		-	-	-			-				-	-	Ci	ity			, State	_					1				
	eanipier ergnatarer	- 1/2	11	i Dea	~				0	Drop	erva	ativ	-	-	-	N	latr		-,			,	_	alyze		, ann		_				
				D		-			П	Tes							lau	1	Г	-			1		FUI.	T		10	(s)	T	_	_
		bled	pled	Containers Shipped			p		fate	oel)	ge Label) c (Yellow Label)	(U)	abel)	Label)			L.		y): WATER	E 8260	0	BTEX/MTBE/ NAPHTHALENE 8260B	TURF					RIISH TAT (Pre-Schedule)	TAT request (in Bus. Days)	IS (YES OF TIO)		Керин
Sample iD or	Field ID	Date Sampled	Time Sampled	No. of Cont	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Lat	H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow	H <sub>2</sub> SO <sub>4</sub> Glass	HNO <sub>3</sub> (Red Label)	None (Black Label)	Groundwater	Wastewater	Shiddle	Soil	Other (specify)	BTEX/MTBE	PAH 8270C	BTEX/MTB NAPHTHA	TEMPERATURE					DIICH TAT	TAT reques	PUP Result	40 of 0	Due Date of Keport
MW-3	220116	10/16/2020	10:05	4	X					3		1		1	Х					3	1								N	Y		
MW-4	220117	10/16/2020	11:44	4	X					3				1	Х					3	1								N	Y		
MW-5	220118	10/16/2020	12:08	4	X					3				1	Х					3	1								N	Y		
MW-6	220119	10/16/2020	8:42	4	X					3				1	Х					3	1								N	Y		
MW-7	220120	10/16/2020	10:41	4	X					3				1	Х					3	1								N	Y		
MW-8	220121	10/16/2020	11:07	4	Х					3				1	Х					3	1								N	Y		
MW-9	220122	10/16/2020	12:53	4	X					3				1	Х					3	1								N	Y		
MW-10	220123	10/16/2020	13:07	4	X					3				1	Х					3	1								N	Y		
MW-11	220124	10/16/2020	14:10	4	X					3				1	х					3	1								N	Y		
MW-12	220125	10/16/2020		4	X	_				3				1	X					3	1								N	Y		
	pecial Instructions:										-1	-										S	emp amp	eratur le Coi	re Up ntaine	on Re ers In	eceip ntact? pace?	C	90			
Relinquished by	y: 11	Date		Ti	me	Rece	eived I	oy:				-		-	T	1	Date	e	1	Tim	е						rcle or					
1 mg	Allen	10/20/2	020	18	15.	-	2		L	1	C					13	120	/2	1	8	:15	Level Level	2									
Relinquished by	60	Date	12000	Ti	me	Rece	eived	y:	1	1		1	1			ig	Date	10	0	Tim 83		Level Site S		ic - if v	ves. n	lease	e pre-s	schedi	ule w/	SUTH	IERL	AND
V	m	13/241	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	02	5.3	1/	1	/	V	n	1								1	-		Projec										

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SUTHERLAND ENVIRONMEN	TAL	2515 5	th Av	enue	e Sou	ith			Pho	one:	20	05 5	81	950	00											S	P	۱H	E	R	E	3
COMPANY, INC.		Birmin	ghan	n, AL	352	33			F	ax:	20	05 5	81	950	04																	INC
Consultant Name:	SPHERE 3 Er	ngineerir	ng, Ind	D.																F	age #	: Pa	ge 2	of 2	,							
	3433 Sierra Di																		1		ice To	-				eering	g, Inc					
City/State/Zip:	Hoover, Alaba	ma 352	216																	Rep	ort To	: gre	eg@s	spher	re3.c	com;	jon@	)sph	ere3.	com		
Client:	Mr. Roger Pitts	S	-																	Pre	oject #	: PI	TTSC	3#4C	CH.0	2						
Consultant Project Mgr:	Greg Hoaglan	d															1	UST	T In	cide	nt No.	: US	T20-	-02-0	)2							
<b>Consultant Telephone Number:</b>	(205) 403.331	7			_	Fa	x N	o.:	(205	5) 40	)3.3	3318	3						Fa	acili	ty ID #	: Pit	ts Gr	ocer	y #4	Cent	ter Hi	ill			_	
Sampler Name: (Print)	Greg Hoaglan	d, Jimm	yJoh	nson															Sit	e Ac	Idress	: 28	705	ligh	way	91						
Sampler Signature:	11.	agl	R	_	-					_							Ci	ty,	Col	inty	State	: Ha	ncev	ille, (	Cullr	man,	AL					
		//					Г	F	Pres	erva	ative	e			Ν	<i>A</i> atri	x					Ana	alyze	For:				1				
Sample ID or Field ID MW-DW1 220\26 DUP-1 220\27 TEMPERATURE BLANK	Date Sampled 10/16/2020 10/16/2020	Time Sampled	L ω A No. of Containers Shipped	X X Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	C HCI (Blue Label)	Haddin ( Cualige Label) H <sub>2</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 Groundwater	Wastewater	Drinking Water Sludge	Soil	X Other (specify): WATER	ω BTEX/MTBE 8260	T PAH 8270C	د BTEX/MTBE/ NAPHTHALENE 8260B	TEMPERATURE							Z TAT request (in Bus. Days) ≺ ≺ PDF Results (yes or no)		Due Date of Report	
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Comments/Special Instructions:										-	-								_	-	Labo	ator	V Co	mm	ents	_				_		
Relinquished by:	Date	_		me	Rece	eived I	by:		1		7					Date	9		Tim	e	Te Sa	empe ampl DCs eliver	eratu e Co Free	re Up ntain of H	pon F ners I lead:	Recei Intact space	t? e?	2.9	N N			
May 9 den	10/20/20	20	18	:15	V	in	-	1	~	K	_	_			13	122	5/2	21	8	119	Level											
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#### **ADEM Watermark**

#### Environmental Company, Inc.

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



Attention: Mr. Gr Address: 3433 S	3 Engineering, Inc. eg Hoagland ierra Drive ; AL 35216	Report Date: Reference # P.O. # Project ID:	July 29, 2021 45369 PITTS.G#4CH.05 Pitts Grocery #4 Center Hill
Sample Matrix: Date Received: Date Collected: Sample Collector:	water 7/22/21 7/15/21 G. Karstens	Analytical Analyst: Date of Analysis: Method:	Hageman/Heard 7/23/21 EPA Method 8260B

	VOLATILE ORGANICS - BTEX/MTBE													
	FIELD ID	FIELD ID	FIELD ID		FIELD ID									
N7 1	PG4 MW1	PG4 MW2	PG4 MW3	PG4 MW4	PG4 MW5	AD	1							
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection							
Organic, mg/L	228190	228191	228192	228193	228194	228195	Limit, ppm							
Benzene	1.600	0.774	0.158	0.016	BDL	BDL	1							
Toluene	0.070	1.020	0.229	BDL	BDL		0.001							
Ethylbenzene	1.360	2.120	0.193	BDL		BDL	0.001							
Xylenes, o,m,p	2.160	8.160	0.548	BDL	BDL	BDL	0.001							
MTBE	0.374	0.008	0.005		BDL	BDL	0.003							
		0.000	0.003	BDL	BDL	BDL	0.001							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID								
	PG4 MW7	PG4 MW8	PG4 MW9											
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Datastian							
Organic, mg/L	228196	228197	228198	228199	228200	228201	Detection Limit, ppm							
Benzene	0.153	0.768	BDL	0.058	BDL									
Toluene	0.197	0.058	BDL	BDL	BDL	BDL	0.001							
Ethylbenzene	3.920	1.190	BDL	0.004		BDL	0.001							
Xylenes, o,m,p	13.200	2.730	BDL		0.002	BDL	0.001							
MTBE	0.002	0.086		0.004	BDL	BDL	0.003							
	0.002	0.000	BDL	0.005	BDL	BDL	0.001							

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



Attention: Mr. Gre Address: 3433 Si	3 Engineering, Inc. eg Hoagland erra Drive , AL 35216	Report Date: Reference # P.O. # Project ID:	July 29, 2021 45369 PITTS.G#4CH.05 Pitts Grocery #4 Center Hill
Sample Matrix: Date Received: Date Collected: Sample Collector:	water 7/22/21 7/15/21 G. Karstens	Analytical Analyst: Date of Analysis: Method:	Hageman/Heard 7/23/21 EPA Method 8260B

VOLA	TILE OR	GANICS - BTEX/	MTBE/NAPHTHALENE
	FIELD ID	FIELD ID	
	MWDW1	Duplicate	
Volatile	LAB ID	LAB ID	Detection
Organic, mg/L	228202	228203	Limit, ppm
Benzene	BDL	0.062	
Toluene	BDL	BDL	0.001
Ethylbenzene	BDL	0.004	0.001
Xylenes, o,m,p			0.001
MTBE	BDL	0.004	0.003
and the strength in second	0.010	0.005	0.001
Naphthalene		0.006	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,

Noi Dore

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	July 29, 2021
Attention:	-	, Hoagland	Reference #	45369
Address:	3433 Sie	rra Dr.	P.O. #	PITTS.G#4CH.05
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	trix:	water	Extraction Date:	7/26/21
Date Recei		7/22/21	Analyst:	Hageman/Heard
Date Collec		7/21/21	Date of Analysis:	7/27/21
Sample Col	llector:	G. Karstens	Method:	EPA Method 8270C

POL	YNUCL	EAR AR	OMATI	C HYDE	ROCARE	BONS	
	FIELD ID						
Polynuclear	PG4 MW1 LAB ID	PG4 MW2 LAB ID	PG4 MW3 LAB ID	PG4 MW4 LAB ID	PG4 MW5 LAB ID	PG4 MW6 LAB ID	Detection
Aromatics, ppm	228190	228191	228192	228193	228194	228195	Detection Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0003
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.0003
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Naphthalene	0.329	0.088	0.046	BDL	BDL	BDL	0.001
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001

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

#### Environmental Company, Inc.

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



Attention: N Address: 3	Sphere 3 Engineering, Inc. Ar. Greg Hoagland 433 Sierra Dr. Hoover, AL 35216	Report Date: Reference # P.O. # Project ID:	July 29, 2021 45369 PITTS.G#4CH.05 Pitts Grocery #4 Center Hill
Sample Matri: Date Received Date Collected Sample Collect	d: 7/22/21 d: 7/21/21	Extraction Date: Analyst: Date of Analysis: Method:	7/26/21 Hageman/Heard 7/27/21 <i>EPA Method 8270C</i>

POI	YNUCL	EAR AR	OMATI	C HYDE	ROCARI	BONS	
	FIELD ID PG4 MW7	FIELD ID PG4 MW8	FIELD ID PG4 MW9	FIELD ID	FIELD ID	FIELD ID PG4 MW-12	
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	
Aromatics, ppm	228196	228197	228198	228199	228200	228201	Detection
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	Limit, ppm 0.001
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL		0.001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(a)pyrene	BDL	BDL	BDL	BDL		BDL	0.0005
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Dibenzo(ah)anthracene	BDL	BDL	BDL		BDL	BDL	0.0005
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluorene	BDL	BDL		BDL	BDL	BDL	0.001
Indeno(1,2,3-cd)pyrene	BDL		BDL	BDL	BDL	BDL	0.001
Naphthalene	0.560	BDL	BDL	BDL	BDL	BDL	0.001
Phenanthrene		0.499	BDL	BDL	BDL	BDL	0.001
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Jiono	BDL	BDL	BDL	BDL	BDL	BDL	0.001

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

#### Environmental Company, Inc.

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



Attention: Mr. Gr Address: 3433 S	3 Engineering, Inc. eg Hoagland ierra Dr. r, AL 35216	Report Date: Reference # P.O. # Project ID:	July 29, 2021 45369 PITTS.G#4CH.05 Pitts Grocery #4 Center Hill
Sample Matrix:	water	Extraction Date:	7/26/21
Date Received:	7/22/21	Analyst:	Hageman/Heard
Date Collected:	7/21/21	Date of Analysis:	7/27/21
Sample Collector:	G. Karstens	Method:	<b>EPA Method 8270C</b>

	FIELD ID MWDW1	ROMATIC HYDRO	
Polynuclear	LAB ID		
Aromatics, ppm	228202		Detecti Limit, p
Acenaphthene	BDL		
Acenaphthylene	BDL		0.001
Anthracene	BDL		0.001
Benzo(a)anthracene	BDL		0.001
Benzo(b)fluoranthene	BDL		0.001
Benzo(k)fluoranthene	BDL		0.000
Benzo(ghi)perylene	BDL		0.000
Benzo(a)pyrene	BDL		0.000
Chrysene	BDL		0.000
Dibenzo(ah)anthracene	BDL		0.000
Fluoranthene	BDL		0.001
Fluorene	BDL		0.001
ndeno(1,2,3-cd)pyrene	BDL		0.001
Vaphthalene	BDL		0.001
henanthrene	BDL		0.001
yrene	BDL		0.001
	BDL		0.001

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

N /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Dorge

Kevin Doriety Analytical Chemist

#### Re: Confirmation for COC

From: GREG KARSTENS (gregkarstens@bellsouth.net)

To: suthlab@bellsouth.net

Date: Friday, July 23, 2021, 09:52 AM CDT

Confirmed. Wells were sampled for BTEX/MTBE on the original date, not realizing that PAHs were also required. I returned to the site on July 21 with one liter amber bottles to obtain PAH samples from those same wells. PAH was not requested on the duplicate.

On Thursday, July 22, 2021, 09:34:18 AM PDT, Sutherland Env <suthlab@bellsouth.net> wrote:

Hey Greg,

Please confirm for project 'Pitts Grocery #4 Center Hill' that the BTEX was sampled on 7/15/21 and the PAH was sampled on 7/21/21.

Thanks, Molly

Sutherland Environmental Co.

2515 5th Ave. South

Birmingham, AL 35233

(205) 581-9500

### Sutherland Environmental Read and Review Checklist

ſ

1. Is the client on report?	and the sample collector(s) accurately not	ted NO YES	NO YES
2. Do all dates	match the COC on the report?	NO	NO YES
3. Is the purchan noted on rep	se order ID (PO) and project ID accurated	y NO YAS	NO YES
4. Are all metho	ods and method references correct on repo	ort? NO YES	NO YES
5. Do the Field COC?	ID(s) and the Lab ID(s) correspond to the	The THES	NO YES
6. Is the report f	formatted correctly?	NO	NO YES
7. Does the follo printout infor	owing information on report correspond to rmation from the analytical instrumentation	o the on:	
	Sample Matrix	NO	NO YES
	Analyst	NO	NO YPS
	Analysis Date/Time	NO XES	NO YES
	Analyte concentration	NO	NO YES
	Units	NO	NO YES
	Dilution Factors/Conversions	NO	NO YES
	Detection/Reporting/Quant. Limits	NO XES	NO YES
	QC Reviewed:	TES	YES
	Initial*: * MJH = Michael Heard KD - K	X	NAU -
PDF: HOAG	and, Hunter,	evin Doriety, MSH = Matt Hagema	n, KH = Kolly Hester
0	Karen Invoic	45369	(
Notes:		Sutherland Environmental	Co., Inc.
			-

#### Sutherland Environmental Company Inc.

Sample Ch	eck-in Form			
Date Received: 12221	Invoice #	45	5369	
Method of Delivery: hand	Client:	Sph	6369 eRe 3	
1. Did any containers arrive broken?		YES	NO	]
* If so, please state field ID with analysis of broken sa	ample(s)			-
2. Were cooler(s) sealed upon arrival?		YES	NO	NA
3. Were the samples received at the proper temperature (	(4°C +/- 2°C)?	VES	NO	NA
4. Did a chain of custody accompany the samples?		VES	NO	]
* Was it properly filled out?		VIES	NO	
5. Were correct containers used for the analysis requested	d?	VYES	NO	
6. Were all containers properly preserved?		VYES	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	V NO	NA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain		1 YES	NO	-)
10. Did containers arrive within holding time of analysis		VES		
* If not, please state field ID and analysis of sample(s		TES	NO	
	) out of holding time:			
11. Was client informed of any/all deficiencies in sample	check-in? [	YES	NO	UNA
12. Were any samples rejected?	[	YES	KIO	
* If so, please state field ID of rejected sample(s):				
Sample Custodian (signed):	MA			

SUTHERLAND ENVIRONMEN COMPANY, INC.	TAL	2515 5th Birmingh					P					950 950					4	53	6	9						EEF			
Consultant Name:	SPHERE 3 En	gineering,	Inc.															Page	#• F	Pane	1.01	2							
	3433 Sierra Di																						ineerir	na lr	20		-	_	
City/State/Zip:	Hoover, Alaba	ma 35216	1																							ere3.c	om		
	Mr. Roger Pitts							-										oject						Jone	wspi	eles.c	om		
Consultant Project Mgr:													•		US	T In		ent No											
Consultant Telephone Number:		the second se			Fa	x No	.: (2	205) 4	403.	.331	8												4 Cen	ter F	Hill				
Sampler Name: (Print)		RSAZ	SC	6	_					-								ddres											
Sampler Signature:		D	0	is	Br	5						/		c	ity,								llman,	AL		-			
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		7				T	T	TT		T					T				T		e Fu	i -		-	-	<u></u>			
Sample ID or Field ID PG4 Mw1 228 90 Mw2 228 91 Mw3 228 92 Mw4 228 93 Mw5 228 93 Mw5 228 94 Mw5 228 95 Mw7 228 97 Mw8 228 97 Mw9 228 98	Ĩ	2001 Time Sampled 2007 2001 Time Sampled 2007 2001 2001 2001 2001 2001 2001 2001	X X X X X X X X X X X X X X X X X X X	Composite	Field Fittered	Methanol Sodium Bisulfate	HCI (Blue Label)	NaOH (Orange Label)	H <sub>2</sub> SO4 Plastic (Yellow Label) H <sub>2</sub> SO4 Glass(Yellow Label)	HNO <sub>3</sub> (Red Label)	2 2 2 2 2 2 2 2		Drinking Water	Siludge Soil	Other (specify): WATER	X X	X X X X X X X X X PAH 8270C	TEMPERATURE							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A A A A A A A A A A A A BDF Results (yes or no)		Due Date of Report	
L MWI 0 228199	1	1003	X				Π			H			+	T		-	X	-	+			+	+	$\vdash$					-
Comments/Special Instructions:	Date	Т		Receiv	ed by	:							Date	,	T	ime		Sa VO	mpe mple OCs I ivera	ratur Co ree	re Up ntain of He	oon R ers li eads	Receip ntact? space? ircle or	? (	_	N N			
Relinquished by:	Date	Ť	ime I	Receive	ed by:	.1	'Л	100	N	t			Date			ime 40	) L	evel 4 ite Spe	ecific Man	-ify ager	ves, p or att	lease ach s	e pre-s specifo	chec inst	dule w	/ SUTH	IERLA	ND	

#### **ADEM Watermark**

SUTHERLAND ENVIRONMENTA COMPANY, INC.	AL	2515 s Birmii									205 205								41	2	36	9							R		
Consultant Names																									E	NG	iIN	IEE	ERI	NG,	INC
Consultant Name: S Address: 3			ng, Ind	с.						_			_		_				P	age	#: Pa	age 2	2 of 2	2							
City/State/Zip: H			04.0												_			Ir	ivoi	ce T	o: SF	HER	E 3 8	Engir	neerin	ig, In	c.				_
	Ir. Roger Pitt		216					_			_	_			_			F	Repo	ort T	o: gr	eg@	sphe	ere3.	com;	jon(	Dspl	nerea	3.com		
Consultant Project Mgr: G						_		_						_	_				Pro	ect	#: PI	TTS.	G#4	CH.0	)5						
Consultant Telephone Number: (2																ι	JST	Inc	ider	t No	.: US	ST20	-02-0	02				-			-
Sampler Name: (Print)			~		-	Fa	x No	o.: (	205)	403	3.331	8			_										Cent	ter H	lill				
Sampler Signature:	KSO	210	N	2	C			1							_		;							way							
Sampler Signature:		121	a	n	6	n	-					_				Cit									nan,	AL					
								P	rese	rvat	ive			Ν	/latri	-	T			-	-	lyze	-				1				
			P					T	T		T	Τ		T	T	Î	+	T	T	T		ilyze	F01.	-	-	-	न्त	2			
Sample ID or Field ID PG4 MW1 228200 7 MW1 2 228201 228202 MW DW1 TEMPERATURE BLANK 228203 DVPULLAR 7	11	Time Sampled	T C No. of Containers Shipped	X X X	Composite	Field Filtered	Methanol	HCI (Blue Lahel)	NaOH ( Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass(Yellow Label) HNO3 (Red Label)	None (Black Label)	X X Groundwater	Wastewater	Sludge	Soil	)		_								1 1	$\prec$ $\prec$ $\prec$ $\prec$ $\prec$ $\prec$ $\prec$ $\prec$ $\land$		Due Date of Report	
			_																				T	T	$\square$		+	Ħ	-		-
Commonte/On a sight in the										T	Π	T	T		Π		T	T	T			+	-	+	+	+	+	++			-
Comments/Special Instructions:						-				-		-	_			-	-	_	La	bora	tory	Corr	men	its'						_	
Relinquished by:	Date		Time		ceive	ed by:							Т	Da	ate	Т	Tim	ne		Ter Sar VO	npera nple ( Cs Fr	ature Cont ee o	Upo ainer f Hea	n Re rs Inta adspa	act? act? ace?	00	B	N N			
Relinquished by:	Date	150	Olic				_													el 2											
	Date		Time	Re		ed by:	.1	N	ot	N	N	/	1	Da	te 22	1	Tim 04	10	Lev Site Proj	Spe	cific - Ianag	if yes Ier or	, plea attac	ase p ch sp	ore-sc ecifc i	hedu instr	ile wi	/ SUT	THERI	LAND	

Environmental Company, Inc.

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

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Attention: Mr. Gre Address: 3433 Sie	B Engineering, Inc. g Hoagland prra Drive AL 35216	Report Date: Reference # P.O. # Project ID:	October 18, 2021 45764 PITTS.G#4CH.06 Pitts Grocery #4 Center Hill
Sample Matrix: Date Received: Date Collected: Sample Collector:	water 10/13/21 10/12/21 G. Karstens	Analytical Analyst: Date of Analysis: Method:	Hageman/Heard 10/15-16/21 <b>EPA Method 8260B</b>

	VOLA	<b>FILE OF</b>	RGANIC	S - BTEX	X/MTBE		
	FIELD ID MW-1	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
Volatile	LAB ID	MW-2 LAB ID	MW-3 LAB ID	MW-4	MW-5	MW-6	
Organic, mg/L	230229	230230	230231	LAB ID	LAB ID	LAB ID	Detection
Benzene	1.100	0.652	0.199	230232	230233	230234	Limit, ppn
Toluene	0.041	1.340		0.012	BDL	BDL	0.001
Ethylbenzene			0.413	BDL	BDL	BDL	0.001
Xylenes, o,m,p	1.100	1.940	0.301	BDL	BDL	BDL	0.001
MTBE	1.520	6.700	0.920	BDL	BDL	BDL	0.003
MIBE	0.262	0.008	0.006	BDL	BDL	BDL	0.001
	FIELD ID	FIELD ID	FIELD ID				
	MW-7	MW-8	MW-9	FIELD ID MW-10	FIELD ID	FIELD ID	
Volatile	LAB ID	LABID	LABID	LAB ID	MW-11	MW-12	
Organic, mg/L	230235	230236	230237	230238	LAB ID	LAB ID	Detection
Benzene	0.087				230239	230240	Limit, ppm
Toluene		0.585	BDL	0.026	BDL	BDL	0.001
	0.069	0.089	BDL	BDL	BDL	BDL	0.001
Ethylbenzene	2.030	1.080	BDL	BDL	BDL	BDL	0.001
Xylenes, o,m,p	5.970	2.310	BDL	0.003	BDL		
MTBE	BDL	0.109	BDL	0.003	BDL	BDL BDL	0.003

*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 E	a Drive	Report Date:	October 18, 2021
Attention: Mr. Greg I		Reference #	45764
Address: 3433 Sierr		P.O. #	PITTS.G#4CH.06
Hoover, A		Project ID:	Pitts Grocery #4 Center Hill
Sample Matrix: Date Received: Date Collected: Sample Collector:	water 10/13/21 10/12/21 G. Karstens	Analytical Analyst: Date of Analysis: Method:	Hageman/Heard 10/16/21 <i>EPA Method 8260B</i>

VOLA	TILE OR	GANICS	- BTE	MTBE	/NAPHTI	HALFNE
	FIELD ID MW-DW1	FIELD ID DUP-1				
Volatile	LAB ID	LABID				
Organic, mg/L	230241	230242				Detection Limit, ppm
Benzene	BDL	0.525				CORRECTION CORRECTICOR CORRECTICO
Toluene	BDL	0.081				0.001
Ethylbenzene	BDL	0.985				0.001
Xylenes, o,m,p		1				0.001
	BDL	2.100				0.003
MTBE	0.019	0.097				
Naphthalene		0.620				0.001
						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

MK /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kein Dorge

Kevin Doriety Analytical Chemist

### Environmental Company, Inc.

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



Client: Sphere 3 Engineering, Inc.	Report Date:	October 18, 2021
Attention: Mr. Greg Hoagland	Reference #	45764
Address: 3433 Sierra Drive	P.O. #	PITTS.G#4CH.06
Hoover, AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Matrix:waterDate Received:10/13/21Date Collected:10/12/21Sample Collector:G. Karstens	Extraction Date: Analyst: Date of Analysis: Method:	10/14/21 Hageman/Heard 10/14/21 <b>EPA Method 8270C</b>

POL	YNUCL	EAR AR	OMATI	C HYDF	OCARF	BONS	
	FIELD ID MW-1	FIELD ID MW-2	FIELD ID MW-3	FIELD ID MW-4	FIELD ID MW-5	FIELD ID	
Polynuclear	LAB ID	MW-6 LAB ID	Detection				
Aromatics, ppm	230229	230230	230231	230232	230233	230234	Limit, ppm
Acenaphthene	BDL	0.001	BDL	BDL	BDL	BDL	0.001
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0003
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluorene	BDL	0.003	BDL	BDL	BDL		0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Naphthalene	0.128	0.341	0.072	BDL		BDL	0.001
Phenanthrene	BDL	0.004	BDL	BDL	BDL	BDL	0.001
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
		555	DDL	BDL	BDL	BDL	0.001

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

Environmental Company, Inc.

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



Attention: Mr. Greg Address: 3433 Sier	Engineering, Inc. Hoagland ra Drive NL 35216	Report Date: Reference # P.O. # Project ID:	October 18, 2021 45764 PITTS.G#4CH.06 Pitts Grocery #4 Center Hill
Sample Matrix:	water	Extraction Date:	10/14/21
Date Received:	10/13/21	Analyst:	Hageman/Heard
Date Collected:	10/12/21	Date of Analysis:	10/14/21
Sample Collector:	G. Karstens	Method:	<b>EPA Method 8270C</b>

POL	YNUCL	EARAR	OMATI	C HYDE	ROCARF	BONS	
	FIELD ID MW-7	FIELD ID MW-8	FIELD ID MW-9	FIELD ID MW-10	FIELD ID	FIELD ID	
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	MW-11 LAB ID	MW-12 LAB ID	Detection
Aromatics, ppm	230235	230236	230237	230238	230239	230240	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL		0.001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL		BDL	0.0001
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Chrysene	BDL	BDL	BDL		BDL	BDL	0.0001
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Fluoranthene	BDL	BDL		BDL	BDL	BDL	0.001
Fluorene	BDL		BDL	BDL	BDL	BDL	0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	0.002	BDL	BDL	0.001
Naphthalene		BDL	BDL	BDL	BDL	BDL	0.001
Phenanthrene	0.697	0.256	0.003	BDL	0.003	BDL	0.001
	BDL	BDL	BDL	0.001	BDL	BDL	0.001
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001

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

Environmental Company, Inc.

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



Attention: Mr. Gre Address: 3433 Sid	3 Engineering, Inc. g Hoagland erra Drive AL 35216	Report Date: Reference # P.O. # Project ID:	October 18, 2021 45764 PITTS.G#4CH.06 Pitts Grocery #4 Center Hill
Sample Matrix:	water	Extraction Date:	10/14/21
Date Received:	10/13/21	Analyst:	Hageman/Heard
Date Collected:	10/12/21	Date of Analysis:	10/14/21
Sample Collector:	G. Karstens	Method:	<i>EPA Method 8270C</i>

	FIELD ID MW-DW1	R AROMATIC HYI	
Polynuclear	LAB ID		-
Aromatics, ppm	230241		Detection Limit, ppm
Acenaphthene	BDL		
Acenaphthylene	BDL		0.001
Anthracene	BDL		0.001
Benzo(a)anthracene	BDL		0.001
Benzo(b)fluoranthene	BDL		0.001
Benzo(k)fluoranthene	BDL		0.0001
Benzo(ghi)perylene	BDL		0.0001
Benzo(a)pyrene	BDL		0.0005
Chrysene	BDL		0.0001
Dibenzo(ah)anthracene	BDL		0.0005
Fluoranthene	BDL		0.001
Fluorene	BDL		0.001
ndeno(1,2,3-cd)pyrene	BDL		0.001
Naphthalene	BDL		0.001
Phenanthrene			0.001
yrene	BDL		0.001
June	BDL		0.001

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

/QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kin Done

Kevin Doriety Analytical Chemist

Quality Environmental Analytical Services

**ADEM Watermark** 

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	utherland Envi	ronmental R	ead and Re	view Ch	ecklist
	sample collector(s)			YES	
2. Do all dates match	he COC on the repor	rt?	NO	YES	
3. Is the purchase orden noted on report?	r ID (PO) and projec	t ID accurately	NO	YES	NO YES
Are all methods and	method references c	orrect on report?		ZES ]	NO YES
Do the Field ID(s) as COC?				ÆS T	NO YES
Is the report formatte		[			NO YES
Does the following ir printout information	formation on report of from the analytical in	correspond to the astrumentation:	7		NO YES
	pple Matrix	E	NO	S	NO VES
	lyst		NO Y	Ś	NO YES
	ysis Date/Time	E	NO YE	5	NO YES
Unit			NO YE		NO YES
Dilut	on Factors/Conversion	ons	NO YE		NO YES
Detec	tion/Reporting/Quan		NO YES		NO YES
	eviewed:		YES	<u> </u>	NO YES
Initic	* MJH = Michael Hea	rd, KD = Kevin Dori	iety, MSH = Matt H	ageman Ki	
Greg H. /Jon H. /	Karey E.			-goman, Kl	n = Kelly Hester
		Invoice #	45764		
			Sutherland Environ	nental Co., Ir	nc.

### Sutherland Environmental Company Inc.

Sample Chec	ek-in Form	r		
Date Received: 10/13/21 Method of Delivery: 10000	Invoice #	4	5764	7
1. Did any containers arrive broken?		YES	VIERE	<u>ク</u> ]
* If so, please state field ID with analysis of broken sample				
2. Were cooler(s) sealed upon arrival?	and the second se	VYES	NO	NA
3. Were the samples received at the proper temperature $(4^{\circ}C + D)$		VES	NO	NA
* Was it properly fill it as		YES	NO	1
* Was it properly filled out?		¥ES ¥ES	NO	
Were all containers properly preserved?	<mark>.</mark>	KES	NO	NA
Were all water samples received at the proper pH?	1	YES	NO	NA
If VOA vials were present, was there any head space?	·····[	YES	VØ	NA
* If so, please state field ID of deficient sample(s):				
Were all containers properly labeled and match chain of custo		VES	NO	
Did containers arrive within holding time of analysis?		YES	NO	
* If not, please state field ID and analysis of sample(s) out of	f holding time:			_)
Was client informed of any/all deficiencies in sample check-	-in?	YES	NO	
Were any samples rejected?	······	YES	VNO	
* If so, please state field ID of rejected sample(s):				

SUTHERLAND ENVIRONMENTAL COMPANY, INC.			nue South AL 35233			: 205 5 : 205 5					45	764				
	3 Sierra Drive over, Alabama 3 Rodger Pitts								-		Invoice Report	To: greg@	1 of 2 RE 3 Engin Osphere3.c	com; jon@		.com
Consultant Project Mgr: Gre Consultant Telephone Number: (205 Sampler Name: (Print) Sampler Signature:		36	Fai	~		03.3318			Ci	F Sit	cident N acility ID e Addres	o.: UST20 #: Pitts G ss: 28705		Center H	ill	
Sample ID or Field ID       1 $1$ $230229$ $0$ $230230$ $0$ $230230$ $0$ $3230230$ $0$ $4230232$ $5230232$ $5230233$ $6230234$ $7230235$ $8230236$ $8230236$ $9230236$ $9230238$ $<$ Comments/Special Instructions: $<$	Time Sampled	X X X X X X X X Grab			Not (Ordinge Label)	Anno (Red Label)	X X X X X X X X X X X Coundwater	Mastewater Drinking Water	atrix Bindge	X X X X	X	Analyze	nments:		$ \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
Relinquished by:	Date 13/2021 Date	Time (107 Time	Received by: Received by:		NT.	Λ.		Date Date	_	Time	Sa VC QC De Level 2 Level 3 Level 4 Site Sp	mple Con DCs Free o <u>liverables (</u> ecific - if ye	e Upon Re tainers Inta of Headspa <u>please circl</u> s, please p r attach spe	act? (2) ace? (2) <u>e one)</u> re-schedu	N N	HERLAND

#### **ADEM Watermark**

SUTHERLAND ENVIRONMENTAL COMPANY, INC.		5 5th A ningha					1	Phor Fa		205 205									· . 1			S	P GII	NE	ERI	NG, II
Consultant Name: SPHE	RE 3 Engine	ering, I	nc.																							
Address: 3433 S	ierra Drive					_		-			-		-	-					e #: Pag					_		
City/State/Zip: Hoove		35216									-		-	-			Rei	Dice	To: SPH	IERE 3	Engine	ering,	Inc.		-	
Client: Mr. Ro											_		-	-			Dr	oio	To: gree	j@spn	ere3.co	om; joi	n@sp	here	3.com	
Consultant Project Mgr: Greg H	oagland											-		•	US	STIN			No.: UST			)		_		
Consultant Telephone Number: (205) 4	03.3317				Fa	x No	.: (2	205)	403	.331	8			•					D #: Pitts			24-4-	1.000			
Sampler Name: (Print)	VA	ST	we	2	_							-		٠.					ss: 287				HIII	_		
Sampler Signature:	A	10	NS	the	-	1	>					-	-		City.	Col	intv	St	ate: Han		Gullas	1				
	1					-	Pr	esen	/ativ	10	T		Ma	trix		-		, 04	-	_		an, Al	-	-		
		P	T	T		T	Ť	IY	T	Ť	+	Т	T		T	+	-		Analy	ze For	-				-	
Sample ID or Field ID     Barren Stress       Work 1     230239       I2     230240       I2     230241       DUP-1     230242       EMPERATURE BLANK	Time Sampled	T N No. of Containers Shipped	X X X X Crab	Composite	Field Filtered	Methanol Sodiim Biovitate	HCI (Blue Label)	NaOH ( Orange Label)	H-SO4 Glass(Yellow Label)	HNO <sub>3</sub> (Red Label)	X X X C C C C C C C C C C C C C C C C C	$\langle \langle \langle \rangle$	Drinking Water	Suidge	X Other (specify): WATER	× × × BTEX/MTBE 82		X X X	TEMPERATURE					Z Z Z Z Z Z Z TAT request (in Bus. Days) 人 人 人 人 人 DDF Beening (income of a second	1	Due Date of Report
mments/Special Instructions:										_					1		-									
Ranters 10/1	ate 3/202 ate	Tim 10 Time	7 7 R	eceive eceive	d by:	1		2-1-	1/	1			Date	_		ime	Q Le Le	Ti Si Vi C De evel 2 evel 2 evel 2	3	nre Upo ontaine of He <u>of Heas</u>	on Reco ers Intac adspace <u>e circle</u>	ct? ce? one)	2.5	N N		

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 24, 2022
Attention:	Mr. Greg	Hoagland	Reference #	46270
Address:	3433 Sie	rra Drive	P.O. #	PITTS.G#4CH.07
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Samula Ma	4		4 4 4 4	
Sample Ma		water	Analytical	
Date Recei	ved:	1/17/22	Analyst:	Hageman/Heard
Date Colle	cted:	1/14/22	Date of Analysis:	1/18/22

	VOLAT	ILE OR	GANICS	S - BTEX	K/MTBE		
	FIELD ID	<b>FIELD ID</b>	<b>FIELD ID</b>	FIELD ID	FIELD ID	FIELD ID	
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, mg/L	232967	232968	232969	232970	232971	232972	Limit, ppm
Benzene	1.020	0.750	0.186	0.008	BDL	BDL	0.001
Toluene	0.034	1.080	0.285	BDL	BDL	BDL	0.001
Ethylbenzene	1.030	1.930	0.205	BDL	BDL	BDL	0.001
Xylenes, o,m,p	1.800	6.850	0.644	BDL	BDL	BDL	0.003
MTBE	0.216	0.004	0.004	BDL	BDL	BDL	0.001
	FIELD ID	<b>FIELD ID</b>					
	MW-7	<b>MW-8</b>	MW-9	<b>MW-10</b>	MW-11	<b>MW-12</b>	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, mg/L	232973	232974	232975	232976	232977	232978	Limit, ppm
Benzene	0.106	1.100	BDL	0.012	BDL	BDL	0.001
Toluene	0.062	0.080	BDL	BDL	BDL	BDL	0.001
Ethylbenzene	2.520	1.390	BDL	BDL	BDL	BDL	0.001
Xylenes, o,m,p	7.800	3.140	BDL	BDL	BDL	BDL	0.003
MTBE	BDL	0.086	BDL	0.002	BDL	BDL	0.001

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 24, 2022
Attention:	Mr. Greg	g Hoagland	Reference #	46270
Address:	3433 Sie	rra Drive	P.O. #	PITTS.G#4CH.07
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	atrix.	water	Analytical	
Date Recei		1/17/22	Analyst:	Hageman/Heard
Date Colle	cted:	1/14/22	Date of Analysis:	1/18/22
	llector:	G. Karstens	Method:	EPA Method 8260B

VOLA	TILE OR	GANICS	- BTEX/	MTBE/N	APHTH	ALENE
	FIELD ID	FIELD ID				
	DW-1	DUP-1				
Volatile	LAB ID	LAB ID				Detection
Organic, mg/L	232979	232980				Limit, ppm
Benzene	BDL	0.106				0.001
Toluene	BDL	0.060				0.001
Ethylbenzene	BDL	2.520				0.001
Xylenes, o,m,p	BDL	7.740				0.003
MTBE	0.050	BDL				0.001
Naphthalene		0.762				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

ME /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Dor

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 24, 2022
Attention:	Mr. Greg	Hoagland	Reference #	46270
Address:	3433 Sier	та Dr.	P.O. #	PITTS.G#4CH.07
	Hoover, A	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma		water	Extraction Date:	1/19/22
Sample Ma Date Recei		water 1/17/22	Extraction Date: Analyst:	1/19/22 Hageman/Heard
	ved:			

POL	YNUCLI	EARAR	OMATI	C HYDR	OCARE	ONS	
	FIELD ID MW-1	FIELD ID MW-2	FIELD ID MW-3	FIELD ID MW-4	FIELD ID MW-5	FIELD ID MW-6	
Polynuclear	LAB ID	Detection					
Aromatics, ppm	232967	232968	232969	232970	232971	232972	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluorene	BDL	0.003	BDL	BDL	BDL	BDL	0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Naphthalene	0.582	0.953	0.111	BDL	BDL	BDL	0.001
Phenanthrene	0.004	0.005	BDL	BDL	BDL	BDL	0.001
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001

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



Environmental Company, Inc.

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



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 24, 2022
Attention:	Mr. Greg	Hoagland	Reference #	46270
Address:	3433 Sie	rra Dr.	P.O. #	PITTS.G#4CH.07
	Hoover,	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma		water	Extraction Date:	1/19/22
Date Recei	ved:	1/17/22	Analyst:	Hageman/Heard
Date Colled	cted:	1/14/22	Date of Analysis:	1/21/22
- nie eene			Method:	EPA Method 8270C

POL	YNUCL	EAR AR	OMATI	C HYDR	OCARE	BONS	
		FIELD ID					
	<b>MW-7</b>	<b>MW-8</b>	MW-9	<b>MW-10</b>	MW-11	MW-12	
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Aromatics, ppm	232973	232974	232975	232976	232977	232978	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Acenaphthylene	BDL	BDL	0.002	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	0.003	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(b)fluoranthene	BDL	BDL	0.0002	BDL	BDL	BDL	0.0001
Benzo(k)fluoranthene	BDL	BDL	0.0003	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Benzo(a)pyrene	BDL	BDL	0.0007	BDL	BDL	BDL	0.0001
Chrysene	BDL	BDL	0.0006	BDL	BDL	BDL	0.0005
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluorene	BDL	BDL	0.003	BDL	BDL	BDL	0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Naphthalene	1.190	0.727	0.003	BDL	BDL	BDL	0.001
Phenanthrene	BDL	BDL	0.004	BDL	BDL	BDL	0.001
Pyrene	BDL	BDL	0.002	BDL	BDL	BDL	0.001

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



Environmental Company, Inc.

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



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Attention:	Mr. Greg	Hoagland	Reference #	46270
Address:	3433 Sier	ra Dr.	P.O. #	PITTS.G#4CH.07
	Hoover, A	AL 35216	Project ID:	Pitts Grocery #4 Center Hill
Sample Ma	trix:	water	Extraction Date:	1/19/22
Date Recei	ved:	1/17/22	Analyst:	Hageman/Heard
Date Collec	cted:	1/14/22	Date of Analysis:	1/21/22
	llector:	G. Karstens	Method:	EPA Method 8270C

POL	NUCLEAR AROM	ATIC HYDROCARBO	ONS
	FIELD ID		
	DW-1		
Polynuclear	LAB ID		Detection
Aromatics, ppm	232979		Limit, ppm
Acenaphthene	BDL		0.001
Acenaphthylene	BDL		0.001
Anthracene	BDL		0.001
Benzo(a)anthracene	BDL		0.001
Benzo(b)fluoranthene	BDL		0.0001
Benzo(k)fluoranthene	BDL		0.0001
Benzo(ghi)perylene	BDL		0.0005
Benzo(a)pyrene	BDL		0.0001
Chrysene	BDL		0.0005
Dibenzo(ah)anthracene	BDL		0.001
Fluoranthene	BDL		0.001
Fluorene	BDL		0.001
Indeno(1,2,3-cd)pyrene	BDL		0.001
Naphthalene	BDL		0.001
Phenanthrene	BDL		0.001
Pyrene	BDL		0.001

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

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kin Dougty

Kevin Doriety Analytical Chemist

### Sutherland Environmental Read and Review Checklist

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2. Do all dates match the COC on the report?	NO	<b>S</b>	
			NO YÉS
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO Y		NO YES
4. Are all methods and method references correct on report?	NO YE	1	AND THES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?			YES
6. Is the report formatted correctly?	NO Y		VO YES
<ol><li>Does the following information on report correspond to the printout information from the analytical instrumentation:</li></ol>			
Sample Matrix	NO YE	1	10 YES
Analyst	NOY	5	VO YES
Analysis Date/Time	NO	<b>3</b>	VO YES
Analyte concentration	NO		10 YES
Units	NO		10 YES
Dilution Factors/Conversions	NO		IO YES
Detection/Reporting/Quant. Limits	NO		IO YES
QC Reviewed:	YES		VES
<i>Initial*:</i> * MJH = Michael Heard, KD = Kevin I	Mit Matt		
PDF: Hoagland, Hunter, Kaven	$\Delta \ln 2$	падетап, кн = 1()	rychy Hester
Notes: Invoice #_	Sutherland Envir	onmental Co., Inc.	-

### Sutherland Environmental Company Inc.

	Sample C	heck-in Form			
Date Received:	117/22 hand	Invoice # Client:	41 Spl	0270 1eve 3	
<ol> <li>Did any containers arrive b</li> <li>* If so, please state field II</li> </ol>			YES	VN0	
2. Were cooler(s) sealed upon			YES	NO	NA
3. Were the samples received	at the proper temperature	(4°C +/- 2°C)?	YES	NO	NA
4. Did a chain of custody acco	ompany the samples?		YES	NO	
* Was it properly filled out	:?	[	YES	NO	
5. Were correct containers use	ed for the analysis requeste	zd?[	VES	NO	
6. Were all containers properly	y preserved?	[	YES	NO	NA
7. Were all water samples reco	eived 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	y labeled and match chain	of custody?	YES	NO	
0. Did containers arrive with	in holding time of analysis	s? [	YES	NO	
* If not, please state field II	D and analysis of sample(s	s) out of holding time:			_
1. Was client informed of any	/all deficiencies in sample	e check-in?	YES	NO	UNA
2. Were any samples rejected	?	[	YES	NO	
* If so, please state field ID	of rejected sample(s):				
Sample Custodian (signed):	M.M.	latt			

SUTHERLAND ENVIRONMEN	TAL	2515 5	th Aven	ue So	uth		Pł	none	: 205	58	1 950	00					462	0	S	PHE	RE 3
COMPANY, INC.		Birmin	gham, A	AL 352	233			Fax	: 205	58	1 950	)4									RING, INC
Consultant Name:	SPHERE 3 Er	ngineerir	ig, Inc.														Page #: Page	1 of 2			
Address:	3433 Sierra D	rive															oice To: SPHE		ineering	Inc	
City/State/Zip:	Hoover, Alaba	ama 352	16														port To: greg@		_		om
Client:	Mr. Rodger Pit	tts			_								-				roject #: PITTS			Copilation	
Consultant Project Mgr:	Greg Hoaglan	d											-	US	T In		ent No.: UST20				
Consultant Telephone Number:	the second se				Fax	K No.	: (20	05) 40	03.33	18							ity ID #: Pitts G		4 Cente	er Hill	
Sampler Name: (Print)	KA	RSA	2m	50	-		-	-	-				-				ddress: 28705				
Sampler Signature:		X	200	an	de					-			- (	City,			, State: Hance			AL.	
		-					Pre	serva	ativo	-	1	M	atrix		T	_	Analyze				
				T		T			TT	T	T	T		Т		1				<u>่</u> สดา	
Sample ID or Field ID Mul 232967 Mul 232967 Mul 232969 Mul 232969 Mul 232910		Time Sampled	X X X Crab		Field Filtered	Methanol Sodium Bisulfate	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> Glass(Yellow Label) HNO- (Red Label)	None (Black Label)	X X X X Groundwater	Drinking Water	Sludge	Soll Other (specify): WATER	Ň	X X X				Z         Z         Z         TAT (Pre-Schedule)           <	Due Date of Report
Mus 232971	(	1248	3 x				П		П	T	X	Π		T	-	X				NY	
mile 232912		1215	3 x	1		+	Ħ		H		X	Н	H	+	X	-				NY	
Mu 7 232973	)	1215	2	-		+	+		$\vdash$		$\hat{\mathbf{v}}$	+	H	+	-	-			+		_
	-/	VIII	7	-		+	$\vdash$		$\vdash$	+	4	+	-	+	Х	-		$ \rightarrow  $	++	NY	
MWB 232974	_	1145	2 X	1		-	$\square$	44			X	$\square$	_		Х	Х				NY	
LW9 232975		1115	3 X								Х				Х	Х	1. A			NY	
Mw10 232970	1	1445	3 x								X				X	Х				NY	
Comments/Special Instructions:	The state	22	Time 1335	Recei	ived by	r:					T	Da	te	Γ	Time	e	Laboratory Co Temperatu Sample Co VOCs Free <u>QC Deliverables</u> Level 2	re Upon ntainers of Head	Receipt Intact? Ispace?	: 2:2 Ø N Ø N	
Relinquished by:	Date		Time	Recei	ved by	[	V	ψ.			1		te 1		Time 33	E	Level 3 Level 4 Site Specific - if y Project Manager				HERLAND

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#### **ADEM Watermark**

SUTHERLAND ENVIRONMEN COMPANY, INC.	TAL	2515 5 Birmir							Pho F					9500 9504					1	v		10								<b>E</b> I G, I
Consultant Name:			ng, In	c.																Pag	e #:	Page	e 2 of	2						
	3433 Sierra E	_							-		_				_										neerin	-				
City/State/Zip:			216		_						_	_											_			jon@	2sph	ere3.c	com	
	Mr. Rodger P			-			-	_		-	-		_		_							PITT	_	_	07					
Consultant Project Mgr:					-	-		1							-		US					UST2		_	-					
Consultant Telephone Number: Sampler Name: (Print)			~	2	e	Fa	XN	o.:_	(205	) 40	3.3	318		-											4 Cent	ter H	lill			_
	K	ARS	19	R	2	-	-	-	-	-	_		-									2870		-						
Sampler Signature:			V	Co	u.	B	-	-	_	_	_			-		(	City	, Co	unty	, St	ate:	Hanc	eville,	Cull	man,	AL				
		-	-					F	Prese	erva	tive	_	T	_	Ma	trix					1	Analyz	e For	:			1			
Sample ID or Field ID       Mwl     232911       Mwl     232918       Dwl     232919       Dwl     232919       DUP-1     232980       TEMPERATURE BLANK	Date Sampled	I South Time Sampled	T V W W No. of Containers Shipped	X X X Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	NaOH ( Orange Label)	H <sub>2</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 X Groundwater		Drinking Water	Sludge	X Other (snecifu): WATER			X X X PAH 8270C	TEMPERATURE						1 1 1	$\prec$ $\prec$ $\prec$ $\prec$ $\prec$ $\prec$ $\prec$ $\prec$ $\downarrow$ $\downarrow$ IAI request (in Bus. Days) $\rightarrow$		Due Date of Report
omments/Special Instructions:																					Tem Sam	ple Co	ire Up ontain	on R ers li	Receip ntact?	? (	12	NN		
elinquished by: Lind Kauster	Date	22	Tim 13		Recei	ved by	y:								Date	e		Time			Deliv I 2				rcle or		U			
elinquished by:	Date		Tim	ne F	Recei	/ed by	ĺ.	1	A	).				1	Date	1	E	Time	E	Leve Site \$	I 4 Spec				e pre-s specifo			v/ SUT	HERL	AND

#### **ADEM Watermark**





HISTORICAL DISSOLVED COCs ANALYTICAL SUMMARY							
	F	PITTS GROC	ERY #4 CEN				
MONITOD		DENJENJE		ETHYL-	TOTAL		NAPH-
MONITOR	DATE	BENZENE	TOLUENE	BENZENE	XYLENES	MTBE	THALENE
WELL	DATE	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-1	5/4/2020	1.630	0.078	1.260	2.980	0.288	0.167
	10/16/2020				feet of free p		
	7/15/2021	1.600	0.070	1.360	2.160	0.374	0.329
	10/12/2021	1.100	0.041	1.100	1.520	0.262	0.128
	1/14/2022	1.020	0.034	1.030	1.800	0.216	0.582
SSTLs GRP		0.0190	3.810	2.660	38.100	0.0761	0.0761
MW-2*	5/4/2020	0.848	0.520	2.620	7.750	0.016	0.381
	DUP-1	0.884	0.572	2.680	8.480	0.016	0.848
	10/16/2020		Not sar	npled – 0.38	feet of free p	roduct	
	7/15/2021	0.774	1.020	2.120	8.160	0.008	0.088
	10/12/2021	0.652	1.340	1.940	6.700	0.008	0.341
	1/14/2022	0.750	1.080	1.930	6.850	0.004	0.953
SSTLs GRP		0.0190	3.810	2.660	38.100	0.0761	0.0761
MW-3	5/4/2020	0.232	0.086	0.155	0.325	0.013	0.015
-	10/16/2020	0.233	0.299	0.264	0.712	0.007	0.040
	DUP-1	0.244	0.316	0.284	0.790	0.008	0.107
	7/15/2021	0.158	0.229	0.193	0.548	0.005	0.046
	10/12/2021	0.199	0.413	0.301	0.920	0.006	0.072
	1/14/2022	0.186	0.285	0.205	0.644	0.004	0.111
SSTLs GRP	1/11/2022	0.0190	3.810	2.660	38.100	0.0761	0.0761
MW-4	5/4/2020	0.011	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001
	10/16/2020	0.024	<0.001	0.005	0.009	<0.001	< 0.001
	7/15/2021	0.016	<0.001	<0.001	< 0.003	<0.001	<0.001
	10/12/2021	0.012	<0.001	<0.001	< 0.003	<0.001	<0.001
	1/14/2022	0.008	<0.001	<0.001	< 0.003	<0.001	< 0.001
SSTLs GRP	1711/2022	0.0190	3.800	2.660	38.000	0.0761	0.0761
MW-5	10/16/2020	0.001	<0.001	<0.001	< 0.003	<0.001	<0.001
_	7/15/2021	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001
	10/12/2021	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001
	1/14/2022	<0.001	<0.001	< 0.001	< 0.003	<0.001	< 0.001
SSTLs GRP		0.0187	3.740	2.620	37.400	0.0749	0.0749
MW-6	10/16/2020	< 0.001	< 0.001	< 0.001	< 0.003	<0.001	< 0.001
	7/15/2021	<0.001	<0.001	<0.001	< 0.003	<0.001	< 0.001
	10/12/2021	<0.001	<0.001	<0.001	< 0.003	<0.001	<0.001
	1/14/2022	<0.001	<0.001	<0.001	< 0.003	<0.001	< 0.001
SSTLs GRP		0.0143	2.870	2.010	28.700	0.0573	0.0573
MW-7	10/16/2020	0.161	0.079	1.350	5.140	0.004	0.226
	7/15/2021	0.153	0.197	3.920	13.200	0.002	0.560
	10/12/2021	0.087	0.069	2.030	5.970	<0.001	0.697
	1/14/2022	0.106	0.062	2.520	7.800	<0.001	1.190
	DUP-1	0.106	0.060	2.520	7.740	<0.001	0.762
SSTLs GRP		0.0177	3.530	2.470	35.300	0.0707	0.0707
MW-8	10/16/2020	0.212	0.008	0.518	1.090	0.080	0.093
	7/15/2021	0.768	0.058	1.190	2.730	0.086	0.499
	10/12/2021	0.585	0.089	1.080	2.310	0.109	0.256
	DUP-1	0.525	0.081	0.985	2.100	0.097	0.620
	1/14/2022	1.100	0.080	1.390	3.140	0.086	0.727
SSTLs GRP		0.0190	3.800	2.660	38.000	0.0761	0.0761
MW-9	10/16/2020	<0.001	<0.001	0.002	0.006	<0.001	<0.001
	7/15/2021	<0.001	<0.001	<0.001	< 0.003	<0.001	<0.001
	10/12/2021	<0.001	<0.001	<0.001	< 0.003	<0.001	0.003
	1/14/2022	<0.001	<0.001	<0.001	< 0.003	<0.001	0.003
SSTLs GRP		0.0170	3.400	2.380	34.000	0.0680	0.0680

HISTORICAL DISSOLVED COCs ANALYTICAL SUMMARY - Concluded							
PITTS GROCERY #4 CENTER HILL (UST20-02-02)							
				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-10	10/16/2020	0.001	<0.001	<0.001	< 0.003	0.003	<0.001
	7/15/2021	0.058	< 0.001	0.004	0.004	0.005	< 0.001
	DUP-1	0.062	<0.001	0.004	0.004	0.005	0.006
	10/12/2021	0.026	< 0.001	< 0.001	0.003	0.003	< 0.001
	1/14/2022	0.012	< 0.001	< 0.001	< 0.003	0.002	<0.001
SSTLs GRP		0.0170	3.400	2.380	34.000	0.0680	0.0680
MW-11	10/16/2020	0.012	0.003	0.106	0.147	0.007	0.031
	7/15/2021	< 0.001	< 0.001	0.002	< 0.003	<0.001	< 0.001
	10/12/2021	<0.001	< 0.001	<0.001	< 0.003	<0.001	0.003
	1/14/2022	<0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.001
SSTLs GRP		0.00618	1.240	0.865	1.240	0.0247	0.0247
MW-12	10/16/2020	0.141	< 0.001	0.096	0.028	0.041	0.011
	7/15/2021	<0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.001
	10/12/2021	<0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.001
	1/14/2022	<0.001	< 0.001	<0.001	< 0.003	<0.001	< 0.001
SSTLs GRP		0.00719	1.440	1.010	14.400	0.0287	0.0287
MW-DW1	10/16/2020	<0.001	< 0.001	<0.001	< 0.003	0.092	<0.001
	7/15/2021	<0.001	<0.001	<0.001	< 0.003	0.010	<0.001
	10/12/2021	<0.001	<0.001	<0.001	< 0.003	0.019	<0.001
	1/14/2022	<0.001	< 0.001	<0.001	< 0.003	0.050	<0.001
SSTLs GRP		0.0190	3.810	2.660	38.100	0.0761	0.0761
Note:							

Note:

mg/L – milligrams per liter COCs – Chemicals of Concern SSTLs GRP – Site Specific Target Levels protective of the Groundwater Resource Protection area Concentrations highlighted in **bold** type exceed applicable SSTLs.

\* - source well





### **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:	11/25/09

