

CORRECTIVE ACTION PLAN (CP-9)

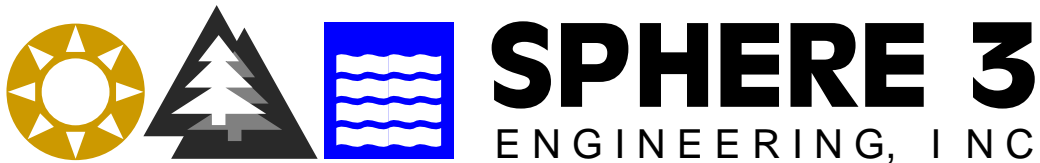
**J & D Enterprises, LLC
Ingram's One Stop
ADEM Facility ID: 23003-015-005695
UST Incident Number: UST19-03-01
1908 Highway 278 East
Piedmont, Alabama 36272
(Calhoun County)**

January 25, 2021

**Prepared for:
J & D Enterprises, LLC
P.O. Box 542
Piedmont, Alabama 36272**

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

SPHERE 3 File: JDE.IOS.09



CERTIFICATION PAGE

I certify under penalty of law that this Corrective Action Plan and all plans, 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

January 25, 2021

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UST RELEASE FACT SHEET

GENERAL INFORMATION:

SITE NAME: Ingram's One Stop

ADDRESS: 1908 Highway 278 East, Piedmont, Calhoun County, AL

FACILITY I.D. NO.: 23003-015-005695

UST INCIDENT NO.: UST19-03-01

RESULTS OF EXPOSURE ASSESSMENT:

How many private drinking water wells are located within 1,000 feet of site? None

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? Residential/Agricultural

CONTAMINATION DESCRIPTION:

Type of contamination at site: Gasoline Diesel Waste Oil
 Kerosene Other:

Free product present in wells? Yes No

Max. benzene/MTBE/naphthalene concentrations measured in soil:
0.006 mg/kg benzene / 0.005 mg/kg MTBE / 0.376 mg/kg naphthalene

Max. benzene/MTBE/naphthalene concentrations in groundwater:
4.560 mg/L benzene / 4.720 mg/L MTBE / 0.536 mg/L naphthalene

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: Ingram's One Stop
 SITE ADDRESS: 1908 Highway 278 East
Piedmont (Calhoun County) Alabama 36272
 FACILITY I.D. NO.: 23003-015-005695
 UST INCIDENT NO.: UST19-03-01
 OWNER NAME: J & D Enterprises, LLC
 OWNER ADDRESS: P.O. Box 542, Piedmont, Alabama 36272
 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A.2	Vapor concentrations at or approaching explosive levels are present in subsurface utility system(s), but no buildings or residences are impacted.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B.2	An active domestic water supply well, domestic water supply line or domestic surface water intake is impacted or immediately threatened.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B.3	The release is located within a designated Wellhead Protection Area I.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D.2	A non-potable water supply well is impacted or immediately threatened.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F.2	Groundwater is impacted and a domestic well is located within 1,000 feet of the site.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F.3	Contaminated soils and/or groundwater are located within designated Wellhead Protection Areas (Areas II or III).	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CLASS 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.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CLASS I	LONG TERM THREAT TO HUMAN HEALTH, SAFETY, OR SENSITIVE ENVIRONMENTAL RECEPTORS		
I.1.	Site has contaminated soils and/or groundwater but does not meet any of the above mentioned criteria.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ADDITIONAL COMMENTS:

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:	G.1
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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 the J & D Enterprises, LLC facility known as Ingram's One Stop, located at 1908 Highway 278 East, Piedmont, Alabama (Figures 1 and 2). The subject facility has been impacted by a release of gasoline, as identified below:

Facility I.D.: 23003-015-005695 Incident No.: UST19-03-01

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 Evaluation report, 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 through 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 34, Township 12 South, Range 10 East and at 33°56'34.76" North Latitude and 85°34'52.48" West Longitude (Figure 1). The physical address of the facility is 1908 Highway 278 East, Piedmont, Calhoun County, Alabama. Land surface elevation at the site is approximately 659 feet above mean sea level (amsl).

The facility property is currently improved with a currently inactive, vacant convenience store building. Gasoline motor fuels previously were stored and dispensed at the facility. The facility is primarily surrounded by residential and agricultural properties. According to the Alabama Department of Environmental Management (ADEM) Underground Storage Tank (UST) Site Classification System Checklist, the facility has a ranking of G.1.

Description of Release

SPHERE 3 Engineering, Inc. (SPHERE 3) was contracted by J & D Enterprises, LLC to provide Response Action Contractor services for their UST facility known as Ingram's One Stop in Piedmont, Alabama. Environmental assessment activities conducted at the site to date include a UST Closure Assessment, Preliminary and Secondary Investigations, additional monitor well installation activities, and groundwater monitoring activities. As documented in the UST Closure Site Assessment Report (dated December 30, 2018), four steel USTs and associated product piping were closed via removal. The closed USTs included two 6,000-gallon unleaded gasoline tanks and two 3,000-gallon unleaded gasoline tanks.

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 Coosa Valley District of the Alabama Valley and Ridge Physiographic Section in Calhoun County, Alabama (Sapp and Emplaincourt, 1975). In this district, land surface altitudes east of the Coosa River range from about 500 feet to as much as 1,540 feet. Drainage from the Coosa Valley District is primarily into the Coosa River (Kopaska-Merkel and others, 2005).

The subject site is located within the outcrop area of the Conasauga Formation of Cambrian age. The Conasauga Formation is described as light to dark-gray finely to coarsely crystalline, medium to thick-bedded dolomite containing minor greenish-gray shale and light-bluish-gray chert. In the eastern Valley and Ridge the lower part includes dark-green to pale-olive fossiliferous shale with a few dark-gray limestone interbeds (Szabo and others, 1988). Interbedded shale, limestone, and sandstone are present within the Conasauga Formation in Calhoun and northern St. Clair Counties (Osborne 1993b).

The Conasauga Formation is a component of the Valley and Ridge aquifer system, a major aquifer that is vulnerable to contamination from the surface (Kopaska-Merkel and others, 2005).

Seventeen soil borings (SB1 through SB10, SBDW, and SBDW2 through SBDW7) have been installed at the site to date. The borings encountered unconsolidated residual soils developed by the in-situ decomposition and weathering of the underlying bedrock of the Conasauga Formation. These soils generally consisted of tan, brown, orange, and gray sandy to silty clay with scattered chert fragments, pebbles, and occasional siderite lenses. Fine to coarse grained gravelly sand with scattered limestone and chert fragments was encountered from 35 to 69 feet below ground surface (bgs). Yellow sandy clay was present from 69 to 70 feet bgs. The uppermost saturated zone of groundwater generally was encountered at approximately 15 feet below ground surface.

Soil borings SB1 through SB10 were each terminated at an approximate depth of 20 feet bgs, and were completed as Type II monitor wells MW-1 through MW-10, respectively. Soil borings SBDW through SBDW6 were each terminated at approximately 45 feet bgs, and were completed as Type III monitor wells MW-DW1 through MW-DW6, respectively. Soil boring SBDW7 was terminated at approximately 70 feet bgs, and was completed as Type II monitor well MW-DW7. Interpretation of the potentiometric data from the Type III monitor wells indicates that the groundwater flow direction generally is toward the south-southwest.

Area Water Wells and Other Potential Environmental Receptors

The subject property is located at 1908 Highway 278 East in Piedmont (Calhoun County), Alabama. The property is located at the eastern corner of the intersection of Highway 278 and Kines Road. Agricultural land (cotton) and the distant Ladiga Creek (flowing northwest) bound the property to the north. A trailer park, residential properties, and the distant Ladiga Creek and pasture bound the property on the east. Across Kines Road (and Vigo-Ladiga Road) to the south are wooded terrain, a pond, a farm complex and pasture. U S Highway 278 forms the western property boundary. Across the highway are agricultural land (cotton), farm houses and wooded areas. The Piedmont Water Works maintains its filtration plant a short distance to the southwest. The water works operates a water main between Ladiga Creek (north) and the water works plant that traverses along the west side of the highway. The surrounding land use is primarily agricultural (pasture and cotton) with light-residential. See Figure 2.

An inventory of private water supply wells revealed no private water supply wells located within 1,000 feet of the facility. The area surrounding the facility is supplied with water by the Piedmont Water Works and no known private wells are operated as a primary source of water for the surrounding population. The City of Piedmont obtains its public water supply from Ladiga Creek (intake north of the property). A pipeline transfers the water from the creek to the filtration plant located southwest of the property (opposite side of Highway 278).

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 water utility personnel. The source of public supply is surface water.

Underground utilities identified adjacent to the target property include only the municipal water main. The water main is located in the grassy median which separates Highway 278 from the property. The main traverses north-south. The main continues across Kines Road but has two

secondary lines which traverse along the north side of Kines Road and the south side of Vigo-Ladiga Road. Water service enters the building on the southeast corner. The AT&T telecommunication and television cable lines are located on poles overhead. The electrical lines are located overhead. Electrical and telephone service enter the building from a pole near the southeast corner of the building. There is no natural gas utility to this vicinity. There is no municipal sanitary sewer. The property includes a septic tank system located near the northeast corner of the building. The field distribution lines extend toward the north. 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, additional monitor well installation activities, and an interim groundwater monitoring event. 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 not been detected in any of the monitor wells 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 34 soil samples were submitted for laboratory analysis. Each soil sample was analyzed for COCs benzene, toluene, ethylbenzene and xylenes (BTEX), methyl tert-butyl ether (MTBE), and naphthalene using Environmental Protection Agency (EPA) method 8260B. A summary of the results of the soil analyses is presented in Table 1 and depicted on Figure 5. Copies of the historical soil laboratory analytical reports are presented as Appendix B.

TABLE 1 INGRAM'S ONE STOP (UST19-03-01) COCs IN SOILS ANALYTICAL SUMMARY							
BORING	DEPTH (feet)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	MTBE (mg/kg)	NAPHTHALENE (mg/kg)
SB1	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	<0.005	0.006	<0.015	0.005	<0.025
SB2	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	0.006	<0.005	0.024	<0.015	<0.005	0.035
SB3	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	0.046	0.277	0.405	<0.005	0.376
SB4	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SB5	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025

TABLE 1 - Concluded INGRAM'S ONE STOP (UST19-03-01) COCs IN SOILS ANALYTICAL SUMMARY							
BORING	DEPTH (feet)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	MTBE (mg/kg)	NAPHTHALENE (mg/kg)
SB6	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SB7	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SB8	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SB9	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SB10	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SBDW	5	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SBDW2	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SBDW3	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SBDW4	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SBDW5	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SBDW6	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
SBDW7	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.025
GRP SSTLs		0.541	228.000	228.000	504.000	0.576	36.300
Notes: mg/kg – milligrams per kilogram GRP SSTLs – Site-Specific Target Levels protective of the Groundwater Resource Protection Area, as calculated using the ARBCA Tier 2 Program Concentrations in bold type exceed applicable GRP SSTLs							

SPHERE 3 prepared an ARBCA Tiers 1 & 2 Evaluation report (dated July 14, 2020) for the facility under Cost Proposal CP-7. The ARBCA evaluation was conducted to establish SSTLs for COCs in soil and groundwater at the site. The ARBCA report was approved by ADEM in a letter dated September 4, 2020.

As shown in Table 1, COCs concentrations exceeding applicable SSTLs protective of the Groundwater Resource Protection (GRP) area were not detected in any of the soil samples collected at the site to date.

Compilation of Groundwater Data

The facility's current monitor well network consists of 11 shallow-zone Type II monitor wells (MW-1 through MW-10), one deep-zone Type II monitor well (MW-DW7), and six Type III monitor wells (MW-DW1 through MW-DW6). See Figure 4.

During the most recent gauging event of September 23, 2020, Depths to groundwater in the shallow-zone Type II monitor wells (MW-1 through MW-10) ranged from 8.78 feet below the top of well casing (btoc) in monitor well MW-10 to 12.23 feet btoc in monitor well MW-8. Potentiometric surface elevations in these wells ranged from 647.81 feet above mean sea level (amsl) in monitor well MW-7 to 649.26 feet amsl in monitor well MW-10. Interpretation of these data indicates a predominant groundwater flow direction to the south-southwest, under an average hydraulic gradient of approximately 1.5 feet per 100 feet. Groundwater elevation data for the most recent gauging event are presented on Figure 6. 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-3, MW-DW1, MW-DW5, and MW-DW7 during the most recent groundwater sampling event for these wells.

The dissolved COCs in samples collected during the most recent groundwater sampling event of September 23, 2020 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. The results of the Tier 2 evaluation indicated that COCs concentrations exceeding applicable SSTLs were not detected in any of the soil samples collected from the soil borings at the site to date. During the UST closure assessment, however, the benzene concentration in soil sample B1, collected from the bottom of the tank pit beneath the southernmost gasoline UST, exceeded the applicable SSTL for benzene. 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, dissolved benzene concentrations in groundwater samples collected from monitor wells MW-3, MW-DW1, MW-DW5, and MW-DW7 exceeded applicable SSTLs during the most recent sampling event of September 23, 2020.

Concentration and Distribution of Chemicals of Concern Exceeding SSTLs

The results of the Tier 2 evaluation indicated that COCs concentrations exceeding applicable

SSTLs were not detected in any of the soil samples collected from the soil borings at the site to date. During the UST closure assessment, however, the benzene concentration in soil sample B1, collected from the bottom of the tank pit beneath the southernmost gasoline UST, exceeded the applicable SSTL for benzene. The benzene concentration in soil sample B1 was 5.420 milligrams per kilogram (mg/kg). The applicable SSTL for benzene is 0.541 mg/kg. According to the UST closure assessment report, the visibly-impacted soils at the base of the UST pit were excavated and removed.

During the most recent groundwater sampling event (September 23, 2020), dissolved benzene concentrations in groundwater samples collected from monitor wells MW-3, MW-DW1, MW-DW5, and MW-DW7 exceeded applicable SSTLs. The dissolved benzene concentrations in these wells were 0.965 milligrams per liter (mg/L), 2.530 mg/L, 0.834 mg/L, and 0.780 mg/L. The applicable SSTL for dissolved benzene in MW-3, MW-DW1, and MW-DW7 is 0.608 milligrams per liter (mg/L). The SSTL for dissolved benzene in MW-DW-5 is 0.607 mg/L.

CORRECTIVE ACTION PLAN

Source Area Remediation

The source area appears to be located in the vicinity of monitor wells MW-DW1, MW-3, MW-DW5, and MW-DW7. These wells are located in close proximity to the former gasoline UST area. 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 during the overnight hours for a duration of eight hours, and will target the source area.

Two Type II recovery wells will be installed, and will be utilized as extraction points during the MEME events. As shown on Figure 8, one of the recovery wells will be installed within the former UST area. The other recovery well will be installed in an effort to mirror existing monitor well MW-DW1.

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 ground surface at the proposed well locations is paved with concrete. As a result, concrete coring will be required at each proposed well location. The borehole for each recovery well will be terminated at an approximate depth of 30 feet bgs. The recovery wells subsequently will be constructed with 4-inch diameter schedule 40 polyvinyl chloride (PVC) materials, including 25 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 one foot 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 recovery 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.

During installation of the soil borings for the two proposed recovery 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.

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 wells, each incident monitor well (including the two new recovery wells) will be purged of an equivalent of three well volumes of groundwater, or until dry. Groundwater samples will then be collected from each well. Samples collected from each well 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 well installation activities will be temporarily stored in a lined roll-off box container. One soil sample will be collected from the cuttings, and will be submitted for total lead analysis using EPA Method 6010B. Upon completion of the proposed drilling activities, the waste soils will be disposed under the previously-approved waste certification from the ADEM Land Division (expiration date April 30, 2021). If this certification expires prior to completion of the proposed activities, receipt of a new disposal authorization from the ADEM Land Division will be required prior to disposal.

RNA is recommended for the dissolved plume associated with this incident because dissolved COCs concentrations at the facility are anticipated not to exceed SSTLs for any reasonably completed human exposure pathway. Consequently, the objective of the CAP will be to reduce the dissolved COCs plume concentrations to levels below the 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-3 and MW-DW7, and Type III monitor wells MW-DW1 and MW-DW5) 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

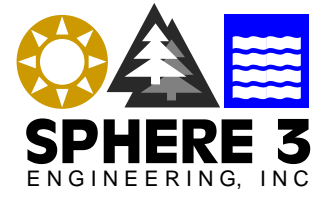
Four quarterly ATTF Cost Proposals, CP-10 through CP-13, have been prepared and submitted herewith for the first year of CAP implementation.

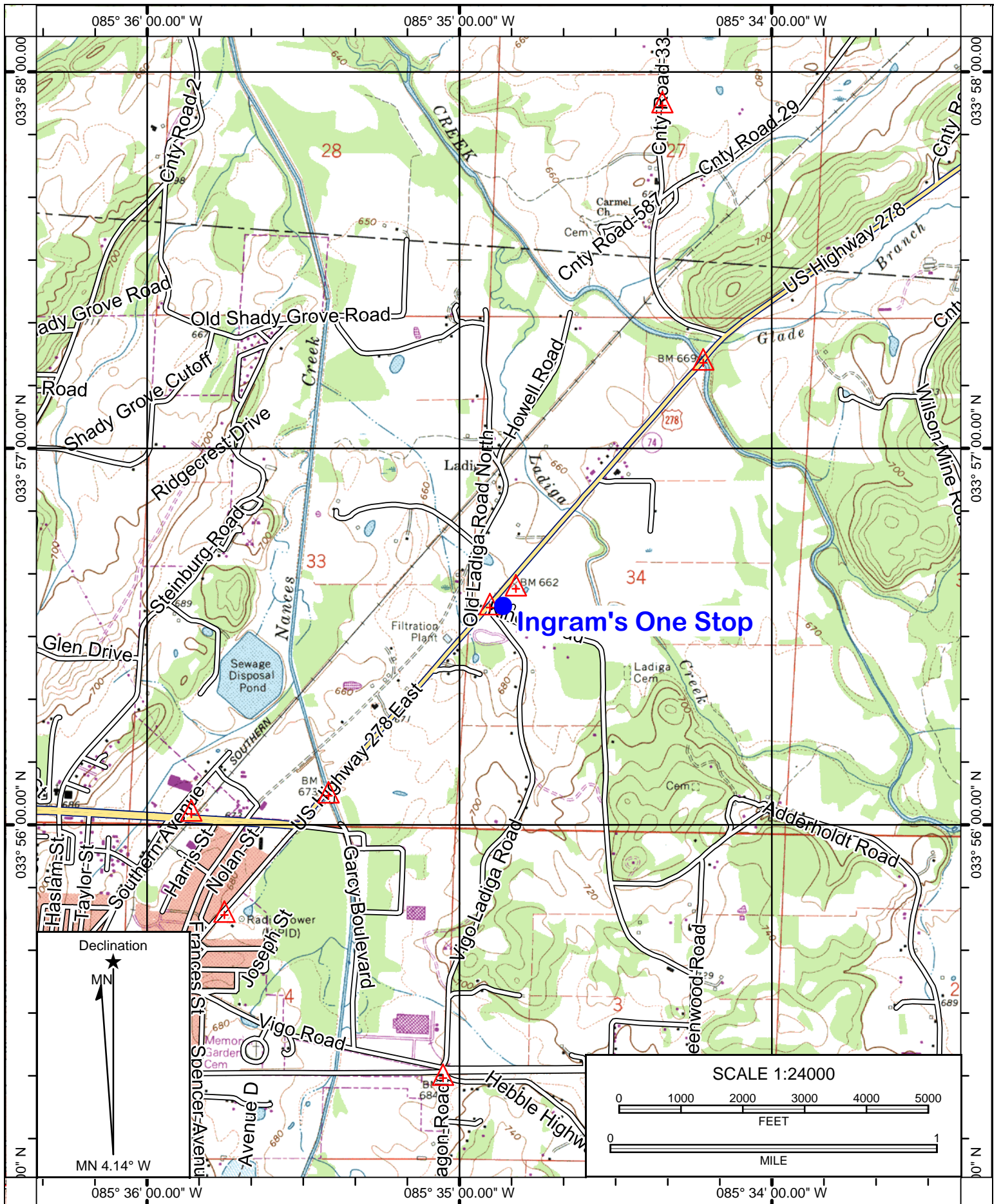
PERSONNEL AND SUBCONTRACTOR QUALIFICATIONS

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

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).





Name: PIEDMONT
 Date: 04/10/19
 Scale: 1 inch = 2,000 ft.

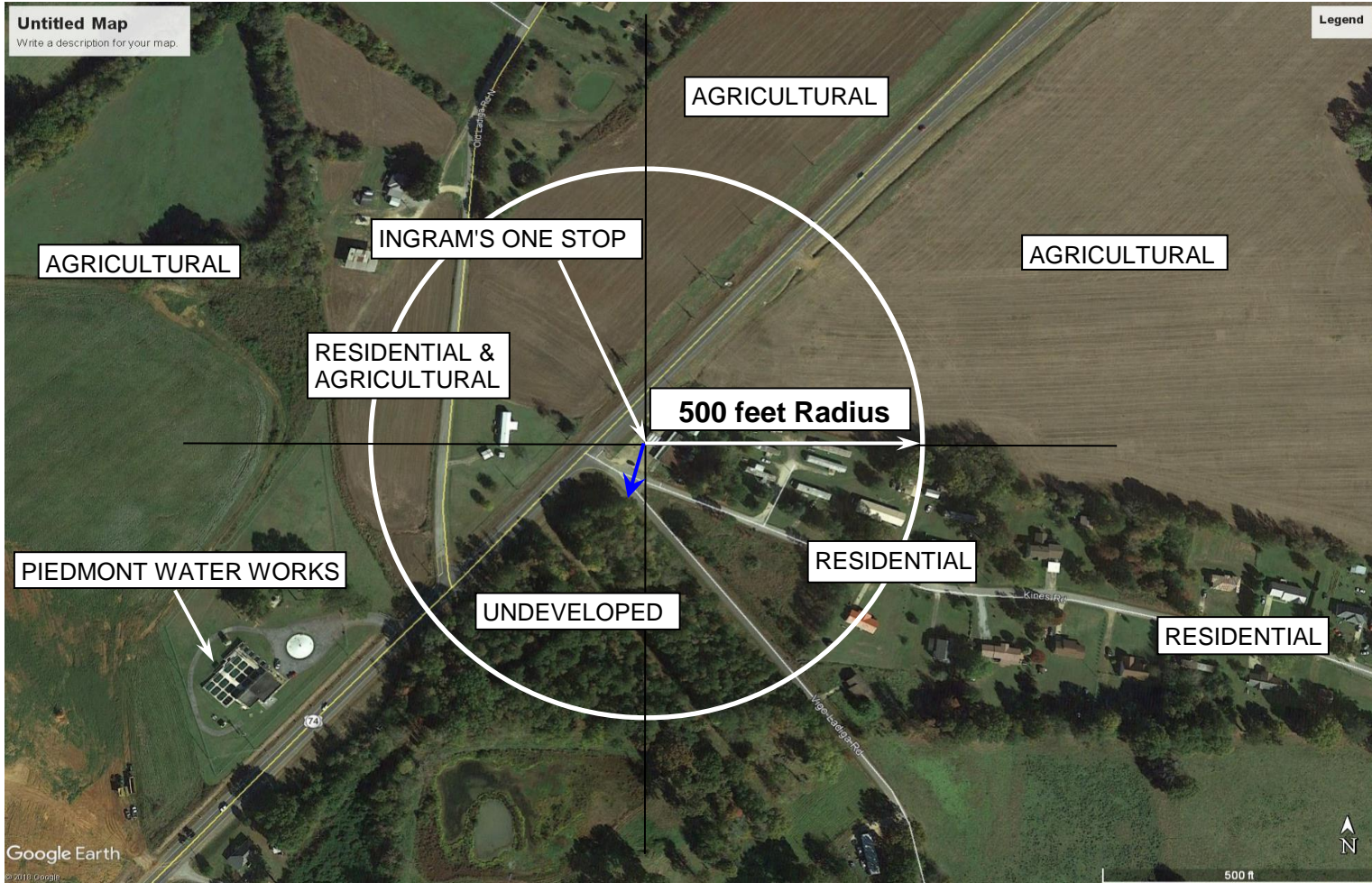
Location: 033° 56' 34.76" N, 085° 34' 52.48" W
 Caption: FIGURE 1: Ingram's One Stop (UST19-03-01)

CADD FILE NO.: JDE.IOS

CHECKED BY

MEP

DRAWN BY



LEGEND

Source: Google Earth

← Groundwater Flow Direction in Type III Wells

DATE	NO.	REVISION	BY
04/10/19	2	Resized to 8.5"x11"	GTD
04/10/19	1	Border Adjustments	JGH

J&D ENTERPRISES
 PIEDMONT, ALABAMA 36272

CORRECTIVE ACTION PLAN
 INGRAM'S ONE STOP (UST19-03-01)
 1908 HIGHWAY 278 EAST
 PIEDMONT, ALABAMA 36272

SPHERE 3
 ENGINEERING, INC

SITE VICINITY MAP

2

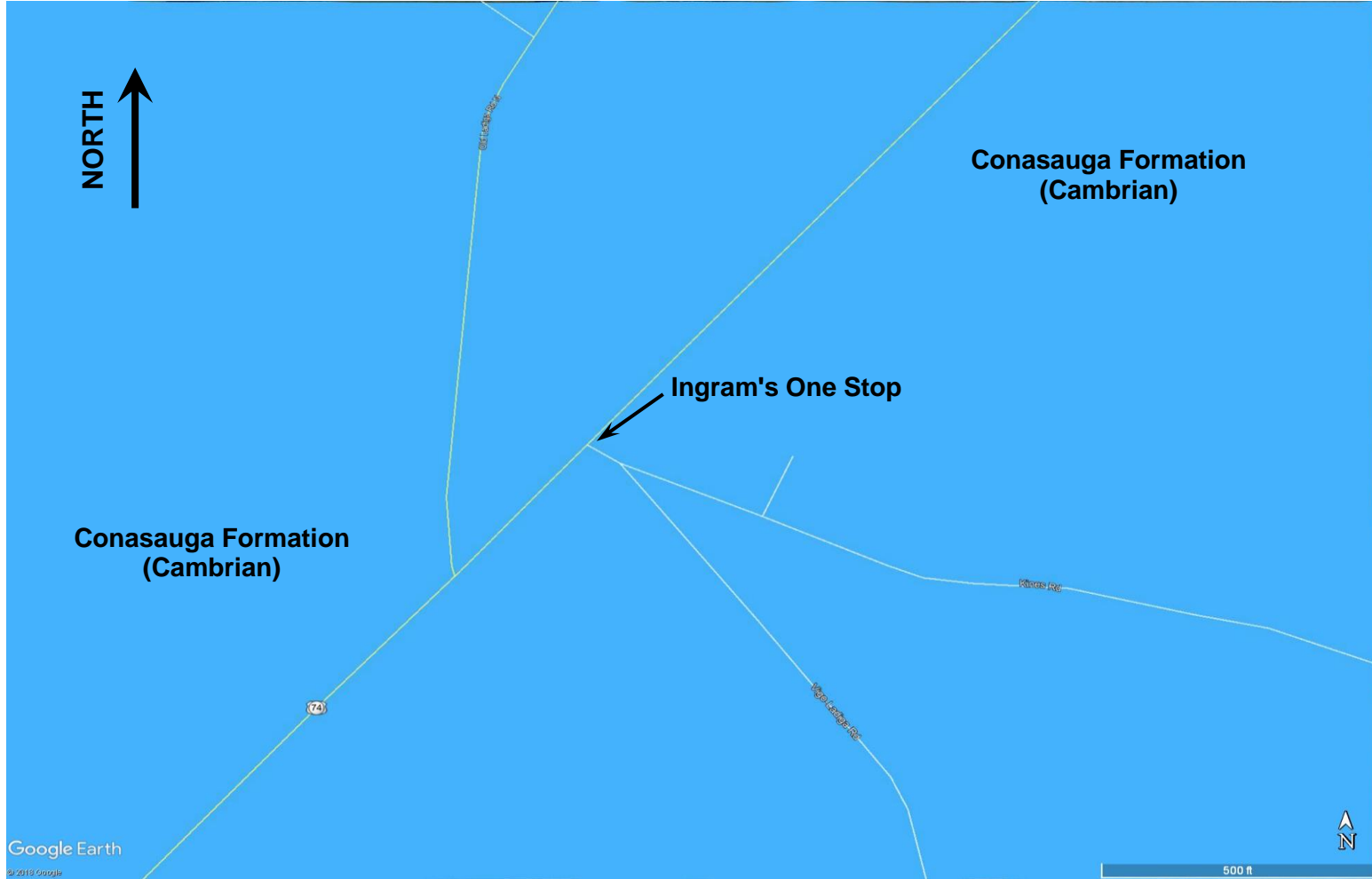
Figure

CADD FILE NO.: JDE:IOS

CHECKED BY

MEP

DRAWN BY



LEGEND

Source: Google Earth

DATE	NO.	REVISION	BY
04/10/19	1	Border Adjustments	JGH

SPHERE 3

ENGINEERING, INC

J&D ENTERPRISES

PIEDMONT, ALABAMA 36272

CORRECTIVE ACTION PLAN
 INGRAM'S ONE STOP (UST19-03-01)
 1908 HIGHWAY 278 EAST
 PIEDMONT, ALABAMA 36272

GEOLOGIC MAP

3

Figure

CADD FILE NO. JDE.IOS

CHECKED BY

M.E.P.

DRAWN BY



Agricultural

Agricultural

Wooded/Undeveloped

U. S. HIGHWAY 278

Crushed Stone

Concrete

Landscaped

Tree Line

Landscaped




Tree Line

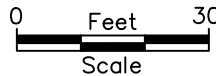
INGRAM'S ONE STOP

VIGO - LADIGA ROAD

KINES ROAD

LEGEND

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



SPHERE 3
ENGINEERING, INC

DATE	NO.	REVISION	BY

J&D ENTERPRISES
PIEDMONT, ALABAMA 36272
Client

CORRECTIVE ACTION PLAN
INGRAM'S ONE STOP (UST19-03-01)
1908 HIGHWAY 278 EAST
PIEDMONT, ALABAMA 36272
Project Title

SITE PLAN

4

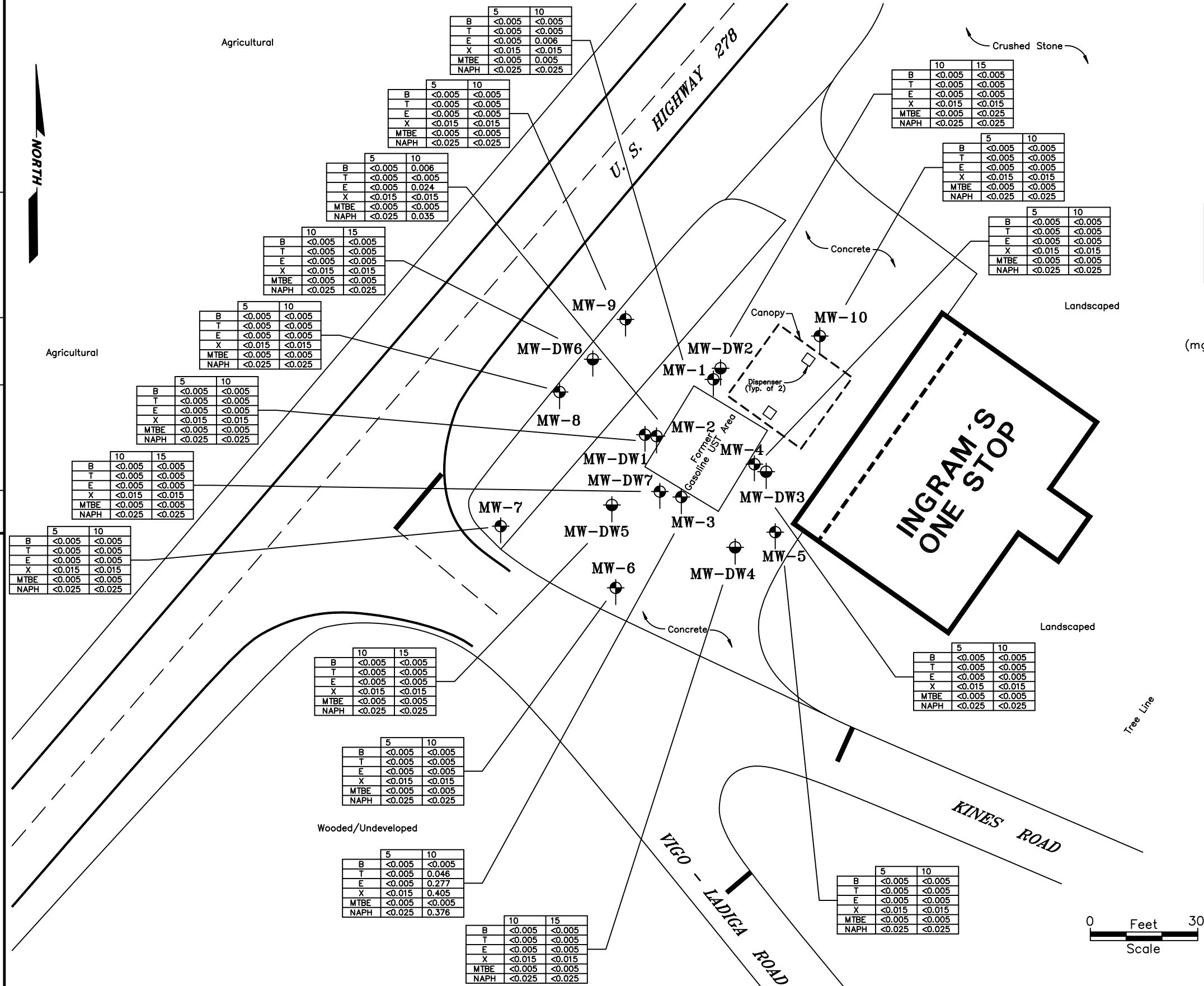
Fig. No.

CADD FILE NO. JDE.IOS

CHECKED BY

M.E.P.

DRAWN BY

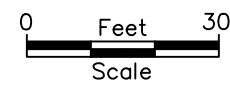


LEGEND

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

Sample Collection Depth (feet bgs)	
B	Benzene Concentration (mg/kg)
T	Toluene Concentration (mg/kg)
E	Ethylbenzene Concentration (mg/kg)
X	Total Xylenes Concentration (mg/kg)
MTBE	Methyl-Tertiary-Butyl-Ether Concentration (mg/kg)
NAPH	Naphthalene Concentration (mg/kg)

bgs below the ground surface
 (mg/kg) Milligrams per Kilogram



DATE	NO.	REVISION	BY

J&D ENTERPRISES
 PIEDMONT, ALABAMA 36272
 Client

CORRECTIVE ACTION PLAN
INGRAM'S ONE STOP (UST19-03-01)
 1908 HIGHWAY 278 EAST
 PIEDMONT, ALABAMA 36272
 Project Title

SOILS COCs
CONCENTRATIONS MAP
 5
 Fig. No.

CADD FILE NO. JDE.IOS

CHECKED BY

M.E.P.

DRAWN BY



Agricultural

Agricultural

Wooded/Undeveloped

U. S. HIGHWAY 278

Crushed Stone

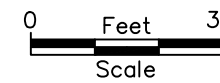
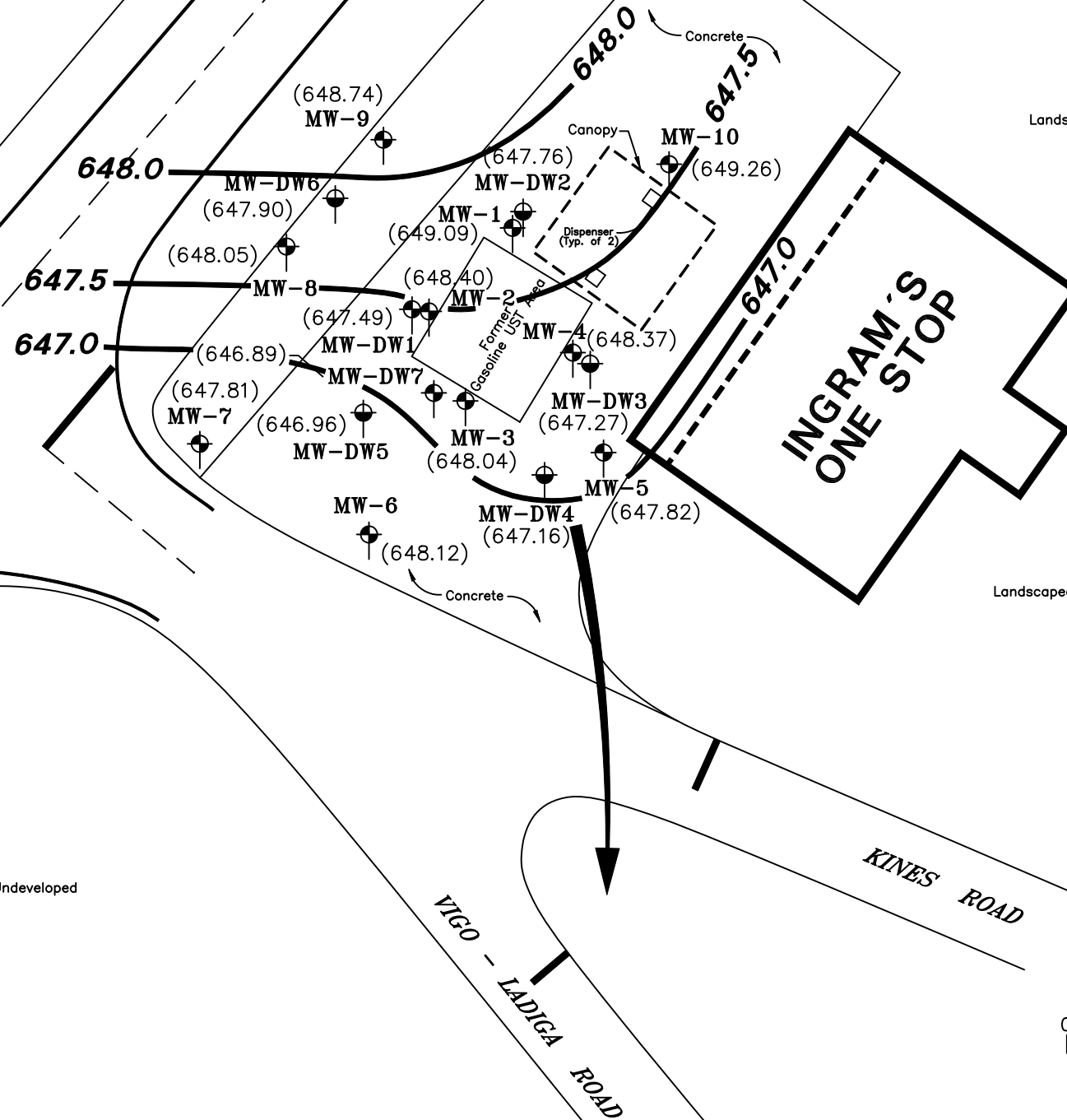
LEGEND

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

(649.09) Potentiometric Surface Elevation (feet a.m.s.l.)

- 648.0 - Isopotentiometric Surface Elevation Contour (feet a.m.s.l.)

Groundwater Flow Direction in Type III Wells (9/23/2020)



DATE	NO.	REVISION	BY

J&D ENTERPRISES
 PIEDMONT, ALABAMA 36272
Client

CORRECTIVE ACTION PLAN
INGRAM'S ONE STOP (UST19-03-01)
 1908 HIGHWAY 278 EAST
 PIEDMONT, ALABAMA 36272
Project Title

POTENTIOMETRIC SURFACE
ELEVATION MAP
 (9/23/2020)

6
Fig. No.

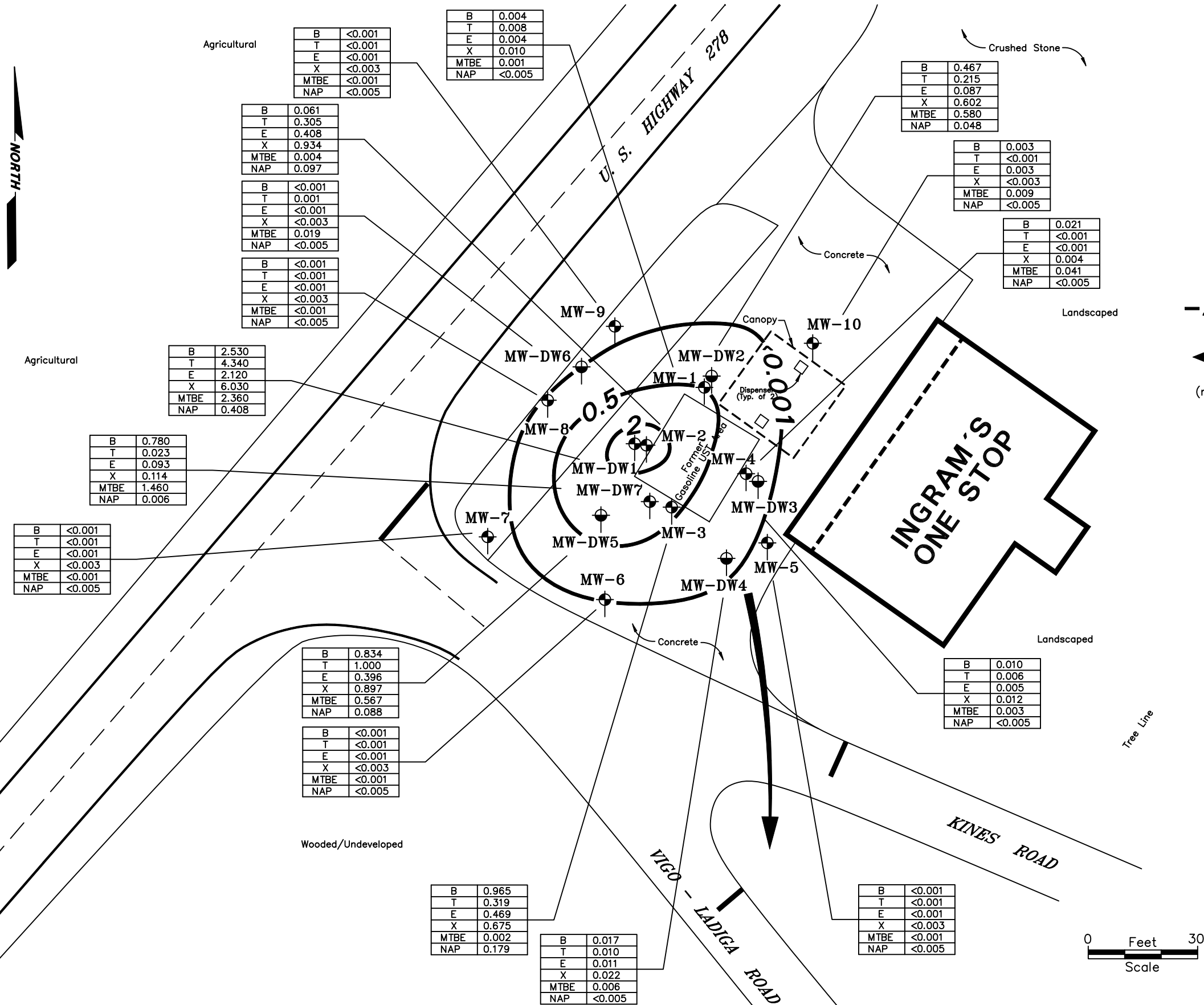
SPHERE 3
 ENGINEERING, INC

CADD FILE NO. JDE.IOS

CHECKED BY

M.E.P.

DRAWN BY



LEGEND

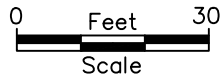
- Soil Exploration Boring
- Soil Exploration Boring/Type II Monitor Well
- Soil Exploration Boring/Type III Monitor Well

B	Dissolved Benzene Concentration (mg/L)
T	Dissolved Toluene Concentration (mg/L)
E	Dissolved Ethylbenzene Concentration (mg/L)
X	Dissolved Total Xylenes Concentration (mg/L)
MTBE	Dissolved Methyl-Tertiary-Butyl-Ether Concentration (mg/L)
NAP	Dissolved Naphthalene Concentration (mg/L)

-2- Estimated Dissolved Benzene Isoconcentration Contour (mg/L) in Deep Screened Wells

Groundwater Flow Direction in Type III Wells (9/23/2020)

(mg/L) Milligrams per Liter



SPHERE 3
ENGINEERING, INC

DATE	NO.	REVISION	BY

J&D ENTERPRISES
PIEDMONT, ALABAMA 36272
Client

CORRECTIVE ACTION PLAN
INGRAM'S ONE STOP (UST19-03-01)
1908 HIGHWAY 278 EAST
PIEDMONT, ALABAMA 36272
Project Title

DISSOLVED COCs
CONCENTRATIONS MAP
(9/23/2020)

7
Fig. No.

CADD FILE NO. JDE.IOS

CHECKED BY

M.E.P.

DRAWN BY



Agricultural

Agricultural

Wooded/Undeveloped

U. S. HIGHWAY 278

Crushed Stone

Concrete

Landscaped

Tree Line

Landscaped





Tree Line

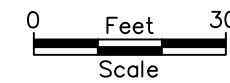
INGRAM'S ONE STOP

VIGO - LADIGA ROAD

KINES ROAD

LEGEND

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



SPHERE 3
ENGINEERING, INC

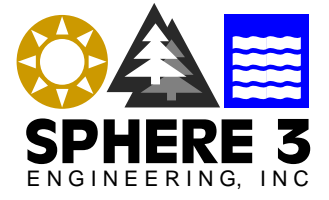
DATE	NO.	REVISION	BY

J&D ENTERPRISES
PIEDMONT, ALABAMA 36272
Client

CORRECTIVE ACTION PLAN
INGRAM'S ONE STOP (UST19-03-01)
1908 HIGHWAY 278 EAST
PIEDMONT, ALABAMA 36272
Project Title

PROPOSED MONITOR WELL LOCATION MAP


Fig. No.



CLIENT: J & D Enterprises, LLC
LOCATION: Ingram's One Stop (UST19-03-01)
 1908 Highway 278 East
 Piedmont, Alabama 36272

Page: 1 of 1
File Number: JDE.IOS.03
Event Date: 7/6/2020
Field Personnel: JGH; JWJ

Pre - MEME Event <input type="checkbox"/>	Sampling Event <input checked="" type="checkbox"/>
Post - MEME Event <input type="checkbox"/>	Free Product Recovery <input type="checkbox"/>

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	658.43	ND	6.90	NA	651.53	NA	651.53
MW-2	658.60	ND	8.83	NA	649.77	NA	649.77
MW-3	658.75	ND	9.19	NA	649.56	NA	649.56
MW-4	658.70	ND	8.62	NA	650.08	NA	650.08
MW-5	658.52	ND	8.98	NA	649.54	NA	649.54
MW-6	658.65	ND	9.09	NA	649.56	NA	649.56
MW-7	659.46	ND	10.29	NA	649.17	NA	649.17
MW-8	660.28	ND	10.96	NA	649.32	NA	649.32
MW-9	660.25	ND	10.60	NA	649.65	NA	649.65
MW-10	658.04	ND	7.70	NA	650.34	NA	650.34
MW-DW1	658.74	ND	9.70	NA	649.04	NA	649.04
MW-DW2	658.76	ND	9.90	NA	648.86	NA	648.86
MW-DW3	658.57	ND	9.80	NA	648.77	NA	648.77
MW-DW4	658.71	ND	10.02	NA	648.69	NA	648.69
MW-DW5	658.46	ND	9.96	NA	648.50	NA	648.50
MW-DW6	659.80	ND	10.92	NA	648.88	NA	648.88
MW-DW7	658.74	ND	10.36	NA	648.38	NA	648.38

Notes:
 Elevations are referenced to a mean-sea-level elevation estimated at 659.00 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

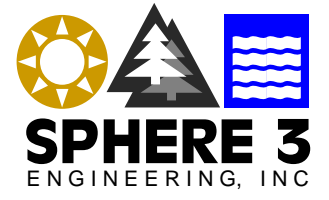
CLIENT: J & D Enterprises, LLC
LOCATION: Ingram's One Stop (UST19-03-01)
 1908 Highway 278 East
 Piedmont, Alabama 36272

Page: 1 of 1
File Number: JDE.IOS.04
Event Date: 9/23/2020
Field Personnel: HTB; JWJ

Pre - MEME Event	<input type="checkbox"/>	Sampling Event	<input checked="" type="checkbox"/>
Post - MEME Event	<input type="checkbox"/>	Free Product Recovery	<input type="checkbox"/>

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	658.43	ND	9.34	NA	649.09	NA	649.09
MW-2	658.60	ND	10.20	NA	648.40	NA	648.40
MW-3	658.75	ND	10.71	NA	648.04	NA	648.04
MW-4	658.70	ND	10.33	NA	648.37	NA	648.37
MW-5	658.52	ND	10.70	NA	647.82	NA	647.82
MW-6	658.65	ND	10.53	NA	648.12	NA	648.12
MW-7	659.46	ND	11.65	NA	647.81	NA	647.81
MW-8	660.28	ND	12.23	NA	648.05	NA	648.05
MW-9	660.25	ND	11.51	NA	648.74	NA	648.74
MW-10	658.04	ND	8.78	NA	649.26	NA	649.26
MW-DW1	658.74	ND	11.25	NA	647.49	NA	647.49
MW-DW2	658.76	ND	11.00	NA	647.76	NA	647.76
MW-DW3	658.57	ND	11.30	NA	647.27	NA	647.27
MW-DW4	658.71	ND	11.55	NA	647.16	NA	647.16
MW-DW5	658.46	ND	11.50	NA	646.96	NA	646.96
MW-DW6	659.80	ND	11.90	NA	647.90	NA	647.90
MW-DW7	658.74	ND	11.85	NA	646.89	NA	646.89

Notes:
 Elevations are referenced to a mean-sea-level elevation estimated at 659.00 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



Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	April 23, 2019
Attention:	Mr. Greg Hoagland	Reference #	40815
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.01
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	soil	Analytical	
Date Received:	4/22/19	Analyst:	Hageman/Heard
Date Collected:	4/17/19	Date of Analysis:	4/22/19
Sample Collector:	G. Karstens	Method:	EPA Method 8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB1 5'	SB1 10'	SB2 5'	SB2 10'	SB3 5'	SB3 10'	
Volatile Organic, ppm	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	203884	203885	203886	203887	203888	203889	
Benzene	BDL	BDL	BDL	0.006	BDL	BDL	0.005
Toluene	BDL	BDL	BDL	BDL	BDL	0.046	0.005
Ethylbenzene	BDL	0.006	BDL	0.024	BDL	0.277	0.005
Xylenes, o,m,p	BDL	BDL	BDL	BDL	BDL	0.405	0.015
MTBE	BDL	0.005	BDL	BDL	BDL	BDL	0.005
Naphthalene	BDL	BDL	BDL	0.035	BDL	0.376	0.025
	FIELD ID	FIELD ID					
	SB4 5'	SB4 10'					
Volatile Organic, ppm	LAB ID	LAB ID					Detection Limit, ppm
	203890	203891					
Benzene	BDL	BDL					0.005
Toluene	BDL	BDL					0.005
Ethylbenzene	BDL	BDL					0.005
Xylenes, o,m,p	BDL	BDL					0.015
MTBE	BDL	BDL					0.005
Naphthalene	BDL	BDL					0.025

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

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety
Analytical Chemist

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:		<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES

Initial*:

MJH

KH

* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF: Hoagland, Hunter, Karstens

Invoice # 40815

Notes: _____

Sutherland Environmental Co., Inc.

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: <u>4/22/19</u>	Invoice # <u>40815</u>
Method of Delivery: <u>hand</u>	Client: <u>Sphere 3</u>

1. Did any containers arrive broken?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		
* If so, please state field ID with analysis of broken sample(s) _____				
2. Were cooler(s) sealed upon arrival?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA	
3. Were the samples received at the proper temperature (4°C +/- 2°C)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA	
4. Did a chain of custody accompany the samples?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		
* Was it properly filled out?			<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
5. Were correct containers used for the analysis requested?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		
6. Were all containers properly preserved?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA	
7. Were all water samples received at the proper pH?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA	
8. If VOA vials were present, was there any head space?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA	
* If so, please state field ID of deficient sample(s): _____				
9. Were all containers properly labeled and match chain of custody?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO		
10. Did containers arrive within holding time of analysis?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA	
12. Were any samples rejected?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO		
* If so, please state field ID of rejected sample(s): _____				

Sample Custodian (signed): M. Cam

40815

SUTHERLAND ENVIRONMENTAL COMPANY, INC.

2515 5th Avenue South
Birmingham, AL 35233

Phone: 205 581 9500
Fax: 205 581 9504

SPHERE 3
ENGINEERING, INC

Consultant Name: SPHERE 3 Engineering, Inc.

Address: 3433 Sierra Drive

City/State/Zip: Hoover, Alabama 35216

Client: J & D Enterprises, LLC

Consultant Project Mgr: Greg Hoagland

Consultant Telephone Number: (205) 403.3317 Fax No.: (205) 403.3318

Sampler Name: (Print) KADSTEWUS

Sampler Signature: [Signature]

Page #: Page 1 of 1

Invoice To: SPHERE 3 Engineering, Inc.

Report To: greg@sphere3.com; jon@sphere3.com, mail original

Project #: JDE.IOS.01

UST Incident No.: UST19-03-01

Facility ID #: Ingram's One Stop

Site Address: 1908 Highway 278 East

City, County, State: Piedmont, Calhoun County, AL

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative						Matrix				Analyze For:				RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	PDF Results (yes or no)	Due Date of Report														
							Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	HNO ₃ (Red Label)	None (Black Label)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify): WATER					BTEX/MTBE 8260B	NAPHTHALENE 8260B	TEMPERATURE											
SB1 5'	203884	4/17/19	1405	1	X							X					X	X																				
SB1 10'	203885	4/17/19	1430	1	X							X					X	X																				
SB2 5'	203886	4/17/19	1310	1	X							X					X	X																				
SB2 10'	203887	4/17/19	1320	1	X							X					X	X																				
SB3 5'	203888	4/17/19	1440	1	X							X					X	X																				
SB3 10'	203889	4/17/19	1205	1	X							X					X	X																				
SB4 5'	203890	4/17/19	1640	1	X							X					X	X																				
SB4 10'	203891	4/17/19	1450	1	X							X					X	X																				
TEMPERATURE BLANK				1								X					X																					

Comments/Special Instructions:

Laboratory Comments:
 Temperature Upon Receipt: 3.3°C
 Sample Containers Intact? Y N
 VOCs Free of Headspace? Y N N
 QC Deliverables (please circle one)
 Level 2
 Level 3
 Level 4
 Site Specific - if yes, please pre-schedule w/ SUTHERLAND Project Manager or attach specific instructions

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	4/22/19	11:06	<u>[Signature]</u>	4/22/19	11:06
Relinquished by:	Date	Time	Received by:	Date	Time

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	April 25, 2019
Attention:	Mr. Greg Hoagland	Reference #	40816
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.01
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	soil	<u>Analytical</u>	
Date Received:	4/22/19	Analyst:	R. Currence
Date Collected:	4/18/19	Date of Analysis:	4/23/19
Sample Collector:	G. Karstens	Method:	<i>EPA Method 418.1 Modified for soils</i>

TOTAL PETROLEUM HYDROCARBONS			
FIELD ID	LAB ID	TPH, PPM	D.L., PPM
SOIL COMP-1	203892	BDL	10

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

MH / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety
Analytical Chemist

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	April 25, 2019
Attention:	Mr. Greg Hoagland	Reference #	40816
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.01
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	soil	<u>Analytical</u>	
Date Received:	4/22/19	Analyst:	Kevin Doriety
Date Collected:	4/18/19	Date of Analysis:	4/25/19
Sample Collector:	G. Karstens	Method:	EPA Method 6010B

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

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

MAH / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety
 Analytical Chemist

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:	<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES	

Initial*:

MJH

KD

* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF: Hoagland, Hunter,
Karstens

Invoice # 408156

Notes: _____

Sutherland Environmental Co., Inc.

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: <u>4/22/19</u>	Invoice # <u>40816</u>
Method of Delivery: <u>hand</u>	Client: <u>Sphere 3</u>

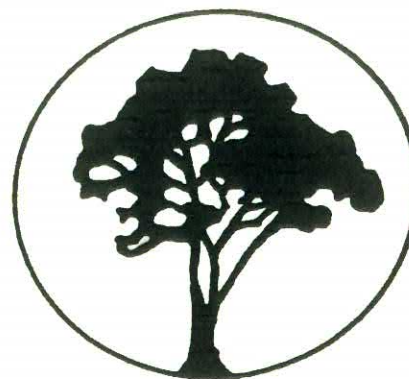
1. Did any containers arrive broken?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
* If so, please state field ID with analysis of broken sample(s) _____			
2. Were cooler(s) sealed upon arrival?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
3. Were the samples received at the proper temperature (4°C +/- 2°C)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
4. Did a chain of custody accompany the samples?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
* Was it properly filled out?			
	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
5. Were correct containers used for the analysis requested?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
6. Were all containers properly preserved?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
7. Were all water samples received at the proper pH?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA
8. If VOA vials were present, was there any head space?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA
* If so, please state field ID of deficient sample(s): _____			
9. Were all containers properly labeled and match chain of custody?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
10. Did containers arrive within holding time of analysis?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA
12. Were any samples rejected?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
* If so, please state field ID of rejected sample(s): _____			

Sample Custodian (signed): M. Can

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	August 20, 2019
Attention:	Mr. Greg Hoagland	Reference #	41402
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.02
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	soil	Analytical	
Date Received:	8/15/19	Analyst:	Hageman/Heard
Date Collected:	8/12-13/19	Date of Analysis:	8/16-17/19
Sample Collector:	G. Karstens	Method:	EPA Method 5035/8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB5 @ 5'	SB5 @ 10'	SB6 @ 5'	SB6 @ 10'	SB7 @ 5'	SB7 @ 10'	
Volatile Organic, ppm	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	206680	206681	206682	206683	206684	206685	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Xylenes, o,m,p	BDL	BDL	BDL	BDL	BDL	BDL	0.015
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.025
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB8 @ 5'	SB8 @ 10'	SB9 @ 5'	SB9 @ 10'	SB10 @ 5'	SB10 @ 10'	
Volatile Organic, ppm	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	206686	206687	206688	206689	206690	206691	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Xylenes, o,m,p	BDL	BDL	BDL	BDL	BDL	BDL	0.015
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.025

All samples assayed using low level vials (pres. With NaHSO₄)
BDL = Below Detection Limit
Detection Limit is Practical Quantitation Limit
All results expressed as ppb of analyte, dry weight basis

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	August 20, 2019
Attention:	Mr. Greg Hoagland	Reference #	41402
Address:	3433 Sierra Drive Hoover, AL 35216	P.O. #	JDE.IOS.02
		Project ID:	Ingram's One Stop

Sample Matrix:	soil	Analytical	
Date Received:	8/15/19	Analyst:	Hageman/Heard
Date Collected:	8/12/19	Date of Analysis:	8/17/19
Sample Collector:	G. Karstens	Method:	EPA Method 5035/8260B

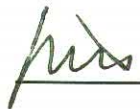
VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE						
	FIELD ID	FIELD ID				
	SB DW1	SB DW1				
	@ 5'	@ 10'				
Volatile Organic, ppm	LAB ID	LAB ID				Detection Limit, ppm
	206692	206693				
Benzene	BDL	BDL				0.005
Toluene	BDL	BDL				0.005
Ethylbenzene	BDL	BDL				0.005
Xylenes, o,m,p	BDL	BDL				0.015
MTBE	BDL	BDL				0.005
Naphthalene	BDL	BDL				0.025

All samples assayed using low level vials (pres. With NaHSO₄)

BDL = Below Detection Limit

Detection Limit is Practical Quantitation Limit

All results expressed as ppb of analyte, dry weight basis

 / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

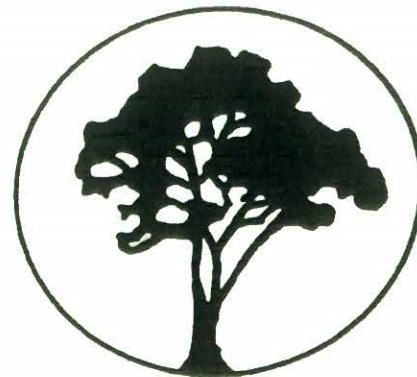


Kevin Doriety
Analytical Chemist

Sutherland

Environmental Company, Inc.

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




Client: Sphere 3 Engineering, Inc.	Report Date: August 20, 2019
Attention: Mr. Greg Hoagland	Reference # 41402
Address: 3433 Sierra Drive	P.O. # JDE.IOS.02
Hoover, AL 35216	Project ID: Ingram's One Stop

Sample Matrix: soil	Analytical
Date Received: 8/15/19	Analyst: M. Hageman
Date Collected: 8/12-13/19	Date of Analysis: 8/20/19
Sample Collector: G. Karstens	Method: ASTM D2216

Moisture Content							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB5 @ 5'	SB5 @ 10'	SB6 @ 5'	SB6 @ 10'	SB7 @ 5'	SB7 @ 10'	
Moisture Content by %	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, %
	206680	206681	206682	206683	206684	206685	
Moisture Content	13.1%	18.8%	17.1%	15.6%	14.8%	13.4%	0.1%
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB8 @ 5'	SB8 @ 10'	SB9 @ 5'	SB9 @ 10'	SB10 @ 5'	SB10 @ 10'	
Moisture Content by %	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, %
	206686	206687	206688	206689	206690	206691	
Moisture Content	0.3%	12.8%	16.0%	17.9%	12.6%	13.5%	0.1%
	FIELD ID	FIELD ID					
	SB DW1 @ 5'	SB DW1 @ 10'					
Moisture Content by %	LAB ID	LAB ID					Detection Limit, %
	206692	206693					
Moisture Content	16.7%	14.7%					0.1%

BDL = Below Detection Limit
N/A = Not Available

 / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,



Kevin Doriety
Analytical Chemist

Quality Environmental Analytical Services

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:	<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES	

Initial*:

 MJH

 KH

* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF: Hoagland, Hunter,
Karstens

Invoice # 41402

Sutherland Environmental Co., Inc.

Notes: _____

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: 8/15/19 Invoice # 41402
Method of Delivery: hand Client: Sphere 3

1. Did any containers arrive broken? YES NO
* If so, please state field ID with analysis of broken sample(s) _____

2. Were cooler(s) sealed upon arrival? YES NO NA

3. Were the samples received at the proper temperature (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 of custody? YES NO

10. Did containers arrive within holding time of analysis? YES NO
* If not, please state field ID and analysis of sample(s) out of holding time: _____

11. Was client informed of any/all deficiencies in sample check-in? YES NO NA

12. Were any samples rejected? YES NO
* If so, please state field ID of rejected sample(s): _____

Sample Custodian (signed): A. Bergeron

Sutherland

Environmental Company, Inc.

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



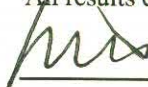
Client:	Sphere 3 Engineering, Inc.	Report Date:	August 20, 2019
Attention:	Mr. Greg Hoagland	Reference #	41392
Address:	3433 Sierra Drive Hoover, AL 35216	P.O. #	JDE.IOS.02
		Project ID:	Ingram's One Stop

Sample Matrix:	soil	Analytical	
Date Received:	8/14/19	Analyst:	Kevin Doriety
Date Collected:	8/13/19	Date of Analysis:	8/20/19
Sample Collector:	G. Karstens	Method:	<i>EPA Method 6010B</i>

METALLIC ANALYTES

	FIELD ID						
	SOIL COMP-1						
Analyte, mg/Kg as Total	LAB ID						Detection
	206636						Limit, mg/Kg
Lead	BDL						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,



Kevin Doriety
Analytical Chemist

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:	<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES	

Initial*:

MJH

KH

* MJH = Michael Heard, KD = Kevin Doricy, MSH = Matt Hageman, KH = Kelly Hester

PDF: Hoagland, Hunter,
Karstens

Invoice # 41392

Sutherland Environmental Co., Inc.

Notes: _____

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: 8/14/19 Invoice # 413912
Method of Delivery: hand Client: Sphere 3

1. Did any containers arrive broken? YES NO
* If so, please state field ID with analysis of broken sample(s) _____

2. Were cooler(s) sealed upon arrival? YES NO NA

3. Were the samples received at the proper temperature (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 of custody? YES NO

10. Did containers arrive within holding time of analysis? YES NO
* If not, please state field ID and analysis of sample(s) out of holding time: _____

11. Was client informed of any/all deficiencies in sample check-in? YES NO NA

12. Were any samples rejected? YES NO
* If so, please state field ID of rejected sample(s): _____

Sample Custodian (signed): ABuagan

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	July 2, 2020
Attention:	Mr. Greg Hoagland	Reference #	43254
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.03
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	soil/TerraCore	Analytical	
Date Received:	6/25/20	Analyst:	Hageman/Heard
Date Collected:	6/22-23/20	Date of Analysis:	6/30/20
Sample Collector:	G. Karstens	Method:	EPA Method 5035/8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB DW2	SB DW2	SB DW3	SB DW3	SB DW4	SB DW4	
	10'	15'	10'	15'	10'	15'	
Volatile Organic, ppm	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	216264	216265	216266	216267	216268	216269	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Xylenes, o,m,p	BDL	BDL	BDL	BDL	BDL	BDL	0.015
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.025
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB DW5	SB DW5	SB DW6	SB DW6	SB DW7	SB DW7	
	10'	15'	10'	15'	10'	15'	
Volatile Organic, ppm	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	216270	216271	216272	216273	216274	216275	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Xylenes, o,m,p	BDL	BDL	BDL	BDL	BDL	BDL	0.015
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.025

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

Respectfully submitted,

MH / QAQC

EPA Laboratory ID AL01084

Kevin Doriety

Kevin Doriety
Analytical Chemist

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	July 2, 2020
Attention:	Mr. Greg Hoagland	Reference #	43254
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.03
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	soil/TerraCore	Analytical	
Date Received:	6/25/20	Analyst:	MSH/CR
Date Collected:	6/22-23/20	Date of Analysis:	6/30/20
Sample Collector:	G. Karstens	Method:	ASTM D2216

Moisture Content							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB DW2	SB DW2	SB DW3	SB DW3	SB DW4	SB DW4	
	10'	15'	10'	15'	10'	15'	
Moisture Content by %	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, %
	216264	216265	216266	216267	216268	216269	
Moisture Content	20.1%	16.7%	12.8%	15.9%	11.9%	15.8%	0.1%
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB DW5	SB DW5	SB DW6	SB DW6	SB DW7	SB DW7	
	10'	15'	10'	15'	10'	15'	
Moisture Content by %	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, %
	216270	216271	216272	216273	216274	216275	
Moisture Content	6.6%	22.9%	16.1%	16.5%	15.4%	14.5%	0.1%

BDL = Below Detection Limit

MKT / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

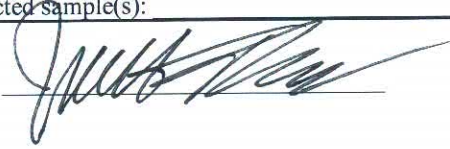
Kevin Doriety
Analytical Chemist

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received:	<u>6/25/20</u>	Invoice #	<u>43254</u>
Method of Delivery:	<u>Hand</u>	Client:	<u>Sphere 3</u>

1. Did any containers arrive broken?	YES	<input checked="" type="radio"/> NO	
* If so, please state field ID with analysis of broken sample(s) _____			
2. Were cooler(s) sealed upon arrival?	<input checked="" type="radio"/> YES	NO	NA
3. Were the samples received at the proper temperature (4°C +/- 2°C)?	<input checked="" type="radio"/> YES	NO	NA
4. Did a chain of custody accompany the samples?	<input checked="" type="radio"/> YES	NO	
* Was it properly filled out?			
	<input checked="" type="radio"/> YES	NO	
5. Were correct containers used for the analysis requested?	<input checked="" type="radio"/> YES	NO	
6. Were all containers properly preserved?	<input checked="" type="radio"/> YES	NO	NA
7. Were all water samples received at the proper pH?	<input checked="" type="radio"/> YES	NO	NA
8. If VOA vials were present, was there any head space?	YES	<input checked="" type="radio"/> NO	NA
* If so, please state field ID of deficient sample(s): _____			
9. Were all containers properly labeled and match chain of custody?	<input checked="" type="radio"/> YES	NO	
10. Did containers arrive within holding time of analysis?	<input checked="" type="radio"/> 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	<input checked="" type="radio"/> NA
12. Were any samples rejected?	YES	<input checked="" type="radio"/> NO	
* If so, please state field ID of rejected sample(s): _____			

Sample Custodian (signed): 

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	July 23, 2020
Attention:	Mr. Greg Hoagland	Reference #	43361
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.03
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	soil	<u>Analytical</u>	
Date Received:	7/15/20	Analyst:	Kevin Doriety
Date Collected:	6/29/20	Date of Analysis:	7/23/20
Sample Collector:	G. Karstens	Method:	<i>EPA Method 6010B</i>

METALLIC ANALYTES

	FIELD ID						
	SOIL COMP-1						
Analyte, mg/Kg as Total	LAB ID						Detection Limit, mg/Kg
	216742						
Lead	27						1.0

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

MH / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety
Analytical Chemist

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:		<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES

Initial*:

MJH

KH

* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF: Hoagland, Hunter

Invoice #

43361

Notes: _____

Sutherland Environmental Co., Inc.

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: 7/15/2020 **Invoice #** 43361
Method of Delivery: Hand **Client:** Sphere 3

1. Did any containers arrive broken? YES NO
* If so, please state field ID with analysis of broken sample(s) _____

2. Were cooler(s) sealed upon arrival? YES NO NA

3. Were the samples received at the proper temperature (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

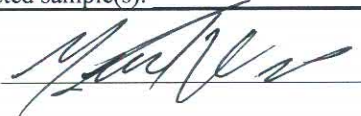
8. If VOA vials were present, was there any head space? YES NO NA
* If so, please state field ID of deficient sample(s): _____

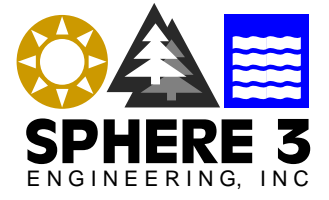
9. Were all containers properly labeled and match chain of custody? YES NO

10. Did containers arrive within holding time of analysis? YES NO
* If not, please state field ID and analysis of sample(s) out of holding time: _____

11. Was client informed of any/all deficiencies in sample check-in? YES NO NA

12. Were any samples rejected? YES NO
* If so, please state field ID of rejected sample(s): _____

Sample Custodian (signed): 



Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	April 29, 2019
Attention:	Mr. Greg Hoagland	Reference #	40835
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.01
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	water	Analytical	
Date Received:	4/24/19	Analyst:	Hageman/Heard
Date Collected:	4/19/19	Date of Analysis:	4/26/19
Sample Collector:	T. Bond/J. Johnson	Method:	EPA Method 8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID		
	MW-1	MW-2	MW-3	MW-4	DUP-1		
Volatile Organic, mg/L	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID		Detection Limit, ppm
Benzene	0.018	0.149	0.052	0.025	0.024		0.001
Toluene	0.050	0.621	0.094	0.099	0.102		0.001
Ethylbenzene	0.008	0.417	0.244	0.002	0.002		0.001
Xylenes, o,m,p	0.045	0.947	0.237	0.099	0.097		0.003
MTBE	0.003	0.032	BDL	0.025	0.024		0.001
Naphthalene	BDL	0.074	0.079	BDL	BDL		0.005

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

MHI / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety
Analytical Chemist

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:	<input checked="" type="checkbox"/> YES		<input type="checkbox"/> YES	

Initial*:

MJH

KD

* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF: Hoagland, Hunter

Invoice # 40835

Notes: _____

Sutherland Environmental Co., Inc.

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: <u>4/24/19</u>	Invoice # <u>40835</u>
Method of Delivery: <u>hand</u>	Client: <u>Sphere 3</u>

1. Did any containers arrive broken?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
* If so, please state field ID with analysis of broken sample(s) _____			
2. Were cooler(s) sealed upon arrival?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
3. Were the samples received at the proper temperature (4°C +/- 2°C)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
4. Did a chain of custody accompany the samples?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
* Was it properly filled out?			
	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
5. Were correct containers used for the analysis requested?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
6. Were all containers properly preserved?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
7. Were all water samples received at the proper pH?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
8. If VOA vials were present, was there any head space?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> NA
* If so, please state field ID of deficient sample(s): _____			
9. Were all containers properly labeled and match chain of custody?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
10. Did containers arrive within holding time of analysis?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA
12. Were any samples rejected?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
* If so, please state field ID of rejected sample(s): _____			

Sample Custodian (signed): A. Bragan

Sutherland

Environmental Company, Inc.

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



Client: Sphere 3 Engineering, Inc.	Report Date: August 26, 2019
Attention: Mr. Greg Hoagland	Reference # 41424
Address: 3433 Sierra Drive	P.O. # JDE.IOS.02
Hoover, AL 35216	Project ID: Ingram's One Stop

Sample Matrix: water	Analytical
Date Received: 8/20/19	Analyst: Hageman/Heard
Date Collected: 8/19/19	Date of Analysis: 8/24/19
Sample Collector: T. Bond/J. Johnson	Method: EPA Method 8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	
Volatile Organic, mg/L	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	206855	206856	206857	206858	206859	206860	
Benzene	0.001	0.211	2.220	0.004	BDL	BDL	0.001
Toluene	0.003	0.764	4.560	0.007	BDL	BDL	0.001
Ethylbenzene	BDL	0.616	0.864	0.001	BDL	BDL	0.001
Xylenes, o,m,p	BDL	1.730	2.360	0.003	0.003	BDL	0.003
MTBE	BDL	0.016	BDL	0.005	BDL	BDL	0.001
Naphthalene	BDL	0.166	0.189	BDL	BDL	BDL	0.005
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-7	MW-8	MW-9	MW-10	MW-DW1	DUP-1	
Volatile Organic, mg/L	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	206861	206862	206863	206864	206865	206866	
Benzene	BDL	BDL	BDL	0.007	4.560	4.480	0.001
Toluene	BDL	BDL	BDL	0.112	3.960	3.720	0.001
Ethylbenzene	BDL	BDL	BDL	0.049	1.260	1.220	0.001
Xylenes, o,m,p	BDL	BDL	BDL	0.697	3.510	3.410	0.003
MTBE	BDL	BDL	BDL	0.021	4.480	4.720	0.001
Naphthalene	BDL	BDL	BDL	0.044	0.536	0.464	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

MT / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety
Analytical Chemist

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:		<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES

Initial*:

* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF: Hoagland, Hunter

Invoice #

41424

Notes: _____

Sutherland Environmental Co., Inc.

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: 8/20/19

Invoice # 41424

Method of Delivery: hand

Client: Sphere 3

1. Did any containers arrive broken?

YES	NO
-----	---------------

* If so, please state field ID with analysis of broken sample(s) _____

2. Were cooler(s) sealed upon arrival?

YES	NO	NA
----------------	----	----

3. Were the samples received at the proper temperature (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 of custody?

YES	NO
----------------	----

10. Did containers arrive within holding time of analysis?

YES	NO
----------------	----

* If not, please state field ID and analysis of sample(s) out of holding time: _____

11. Was client informed of any/all deficiencies in sample check-in?

YES	NO	NA
-----	----	---------------

12. Were any samples rejected?

YES	NO
-----	---------------

* If so, please state field ID of rejected sample(s): _____

Sample Custodian (signed):

ABrager

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	September 6, 2019
Attention:	Mr. Greg Hoagland	Reference #	41403
Address	3433 Sierra Drive	P.O. #	JDE.IOS.02
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	soil	<u>Analytical</u>	
Date Received:	8/15/19	Analyst:	Kevin Doriety/D. Brown
Date Collected:	8/13/19	Date of Analysis:	8/26/19-9/6/19
Sample Collector:	G. Karstens	Method:	<i>(Listed Below)</i>

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	Fractional Organic Carbon Content g-carbon/ g-soil
Field ID	Lab ID	(1)	(1a)	(2)	(2)	(3)	(4)	(5)	(6)
Shelby Tube	206694	0.1900	0.3192	105	1.68	2.69	0.3748	0.0192	0.0111

Test Methods/Calculations:

MC = Moisture Content 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)

MJD / QAQC

EPA Laboratory ID AL01084
 ADEM #41470

Respectfully submitted,

Kevin Doriety
 Analytical Chemist

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:	<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES	

Initial*:

MJH

KH

* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF: Hoagland, Hunter, Karstens

Invoice #

41403

Sutherland Environmental Co., Inc.

Notes: _____

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: 8/15/19 **Invoice #** 41403
Method of Delivery: hand **Client:** Sphere 3

1. Did any containers arrive broken?

YES	NO
-----	---------------

* If so, please state field ID with analysis of broken sample(s) _____

2. Were cooler(s) sealed upon arrival?

YES	NO	NA
----------------	----	----

3. Were the samples received at the proper temperature (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 of custody?

YES	NO
----------------	----

10. Did containers arrive within holding time of analysis?

YES	NO
----------------	----

* If not, please state field ID and analysis of sample(s) out of holding time: _____

11. Was client informed of any/all deficiencies in sample check-in?

YES	NO	NA
-----	----	---------------

12. Were any samples rejected?

YES	NO
-----	---------------

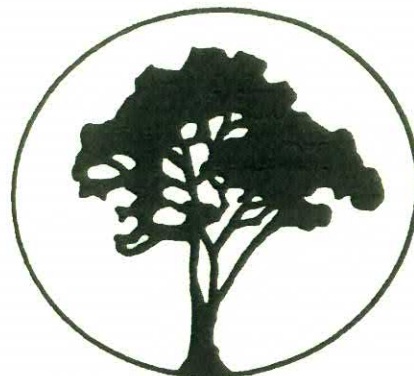
* If so, please state field ID of rejected sample(s): _____

Sample Custodian (signed): A. Bragan

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	July 14, 2020
Attention:	Mr. Greg Hoagland	Reference #	43324
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.03
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	water	Analytical	
Date Received:	7/7/20	Analyst:	Hageman/Heard
Date Collected:	7/6/20	Date of Analysis:	7/9-10/20
Sample Collector:	GH/JJ	Method:	EPA Method 8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	
Volatile Organic, mg/L	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	216587	216588	216589	216590	216591	216592	
Benzene	0.002	0.124	0.595	BDL	BDL	BDL	0.001
Toluene	0.007	0.634	0.520	BDL	BDL	BDL	0.001
Ethylbenzene	0.005	0.611	0.346	BDL	BDL	BDL	0.001
Xylenes, o,m,p	0.013	1.630	0.562	BDL	BDL	BDL	0.003
MTBE	BDL	0.008	0.006	0.002	BDL	BDL	0.001
Naphthalene	BDL	0.192	0.092	BDL	BDL	BDL	0.005
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-7	MW-8	MW-9	MW-10	MW-DW1	MW-DW2	
Volatile Organic, mg/L	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	216593	216594	216595	216596	216597	216598	
Benzene	BDL	BDL	BDL	0.002	3.550	0.306	0.001
Toluene	BDL	BDL	BDL	BDL	6.960	0.056	0.001
Ethylbenzene	BDL	BDL	BDL	0.002	3.140	0.029	0.001
Xylenes, o,m,p	BDL	BDL	BDL	BDL	9.810	0.176	0.003
MTBE	BDL	BDL	BDL	0.005	2.530	0.228	0.001
Naphthalene	BDL	BDL	BDL	BDL	0.408	0.025	0.005

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

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

Samples preserved with HCL and refrigerated at 4 degrees C

Sutherland

Environmental Company, Inc.

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



Client: Sphere 3 Engineering, Inc.	Report Date: July 14, 2020
Attention: Mr. Greg Hoagland	Reference # 43324
Address: 3433 Sierra Drive	P.O. # JDE.IOS.03
Hoover, AL 35216	Project ID: Ingram's One Stop

Sample Matrix: water	Analytical
Date Received: 7/7/20	Analyst: Hageman/Heard
Date Collected: 7/6/20	Date of Analysis: 7/9-10/20
Sample Collector: GH/JJ	Method: EPA Method 8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-DW3	MW-DW4	MW-DW5	MW-DW6	MW-DW7	DUP-1	
Volatile Organic, mg/L	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
Benzene	0.001	BDL	0.806	0.012	0.960	0.002	0.001
Toluene	0.008	0.002	1.020	0.011	0.276	BDL	0.001
Ethylbenzene	0.004	0.001	0.401	0.005	0.131	0.002	0.001
Xylenes, o,m,p	0.023	0.008	0.871	0.013	0.245	BDL	0.003
MTBE	BDL	0.002	0.448	0.026	1.310	0.005	0.001
Naphthalene	BDL	BDL	0.110	BDL	0.048	BDL	0.005

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

MA / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kevin Doriety
Analytical Chemist

Sutherland Environmental Company Inc.

Sample Check-in Form

Date Received: <u>7/7/2020</u>	Invoice # <u>43324</u>
Method of Delivery: <u>HAND</u>	Client: <u>Sphere 3</u>

1. Did any containers arrive broken?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
* If so, please state field ID with analysis of broken sample(s) _____			
2. Were cooler(s) sealed upon arrival?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
3. Were the samples received at the proper temperature (4°C +/- 2°C)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
4. Did a chain of custody accompany the samples?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
* Was it properly filled out?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
5. Were correct containers used for the analysis requested?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
6. Were all containers properly preserved?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
7. Were all water samples received at the proper pH?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> NA
8. If VOA vials were present, was there any head space?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> NA
* If so, please state field ID of deficient sample(s): _____			
9. Were all containers properly labeled and match chain of custody?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
10. Did containers arrive within holding time of analysis?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> NA
12. Were any samples rejected?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
* If so, please state field ID of rejected sample(s): _____			

Sample Custodian (signed):



Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	September 28, 2020
Attention:	Mr. Greg Hoagland	Reference #	43748
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.04
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	water	Analytical	
Date Received:	9/24/20	Analyst:	Hageman/Heard
Date Collected:	9/23/20	Date of Analysis:	9/27/20
Sample Collector:	T. Bond/J. Johnson	Method:	EPA Method 8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	
Volatile Organic, mg/L	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	219315	219316	219317	219318	219319	219320	
Benzene	0.004	0.061	0.965	0.021	BDL	BDL	0.001
Toluene	0.008	0.305	0.319	BDL	BDL	BDL	0.001
Ethylbenzene	0.004	0.408	0.469	BDL	BDL	BDL	0.001
Xylenes, o,m,p	0.010	0.934	0.675	0.004	BDL	BDL	0.003
MTBE	0.001	0.004	0.002	0.041	BDL	BDL	0.001
Naphthalene	BDL	0.097	0.179	BDL	BDL	BDL	0.005
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-7	MW-8	MW-9	MW-10	MW-DW1	MW-DW2	
Volatile Organic, mg/L	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
	219321	219322	219323	219324	219325	219326	
Benzene	BDL	BDL	BDL	0.003	2.530	0.467	0.001
Toluene	BDL	BDL	BDL	BDL	4.340	0.215	0.001
Ethylbenzene	BDL	BDL	BDL	0.003	2.120	0.087	0.001
Xylenes, o,m,p	BDL	BDL	BDL	BDL	6.030	0.602	0.003
MTBE	BDL	BDL	BDL	0.009	2.360	0.580	0.001
Naphthalene	BDL	BDL	BDL	BDL	0.408	0.048	0.005

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

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

Samples preserved with HCL and refrigerated at 4 degrees C

Sutherland

Environmental Company, Inc.

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



Client:	Sphere 3 Engineering, Inc.	Report Date:	September 28, 2020
Attention:	Mr. Greg Hoagland	Reference #	43748
Address:	3433 Sierra Drive	P.O. #	JDE.IOS.04
	Hoover, AL 35216	Project ID:	Ingram's One Stop

Sample Matrix:	water	Analytical	
Date Received:	9/24/20	Analyst:	Hageman/Heard
Date Collected:	9/23/20	Date of Analysis:	9/27/20
Sample Collector:	T. Bond/J. Johnson	Method:	EPA Method 8260B

VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE							
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-DW3	MW-DW4	MW-DW5	MW-DW6	MW-DW7	DUP-1	
Volatile Organic, mg/L	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection Limit, ppm
Benzene	0.010	0.017	0.834	BDL	0.780	BDL	0.001
Toluene	0.006	0.010	1.000	0.001	0.023	BDL	0.001
Ethylbenzene	0.005	0.011	0.396	BDL	0.093	BDL	0.001
Xylenes, o,m,p	0.012	0.022	0.897	BDL	0.114	BDL	0.003
MTBE	0.003	0.006	0.567	0.019	1.460	BDL	0.001
Naphthalene	BDL	BDL	0.088	BDL	0.006	BDL	0.005

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

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

Samples preserved with HCL and refrigerated at 4 degrees C

 / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,



Kevin Doriety
Analytical Chemist

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
2. Do all dates match the COC on the report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
4. Are all methods and method references correct on report?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
6. Is the report formatted correctly?	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:				
Sample Matrix	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyst	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analysis Date/Time	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Analyte concentration	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Units	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Dilution Factors/Conversions	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
Detection/Reporting/Quant. Limits	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES
QC Reviewed:		<input checked="" type="checkbox"/> YES		<input checked="" type="checkbox"/> YES

Initial*:

MJH

KH

* MJH = Michael Heard, KD = Kevin Doriety, MSH = Matt Hageman, KH = Kelly Hester

PDF: Hoagland, Hunter

Invoice # 43748

Notes: _____

Sutherland Environmental Co., Inc.

Sutherland Environmental Company Inc.

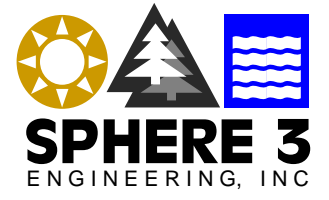
Sample Check-in Form

Date Received: <u>9/24/20</u>	Invoice # <u>43748</u>
Method of Delivery: <u>Hand</u>	Client: <u>Sphere3</u>

1. Did any containers arrive broken?	YES	<input checked="" type="checkbox"/> NO
* If so, please state field ID with analysis of broken sample(s) _____		
2. Were cooler(s) sealed upon arrival?	<input checked="" type="checkbox"/> YES	NO NA
3. Were the samples received at the proper temperature (4°C +/- 2°C)?	<input checked="" type="checkbox"/> YES	NO NA
4. Did a chain of custody accompany the samples?	<input checked="" type="checkbox"/> YES	NO
* Was it properly filled out?	<input checked="" type="checkbox"/> YES	NO
5. Were correct containers used for the analysis requested?	<input checked="" type="checkbox"/> YES	NO
6. Were all containers properly preserved?	<input checked="" type="checkbox"/> YES	NO NA
7. Were all water samples received at the proper pH?	<input checked="" type="checkbox"/> YES	NO NA
8. If VOA vials were present, was there any head space?	YES	<input checked="" type="checkbox"/> NO NA
* If so, please state field ID of deficient sample(s): _____		
9. Were all containers properly labeled and match chain of custody?	<input checked="" type="checkbox"/> YES	NO
10. Did containers arrive within holding time of analysis?	<input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> NA
12. Were any samples rejected?	YES	<input checked="" type="checkbox"/> NO
* If so, please state field ID of rejected sample(s): _____		

Sample Custodian (signed):





**HISTORICAL DISSOLVED COCs ANALYTICAL SUMMARY
INGRAM'S ONE STOP (UST19-03-01)**

MONITOR WELL	DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	TOTAL XYLENES (mg/L)	MTBE (mg/L)	NAPHTHALENE (mg/L)
MW-1	4/19/2019	0.018	0.050	0.008	0.045	0.003	<0.005
	8/19/2019	0.001	0.003	<0.001	<0.003	<0.001	<0.005
	7/6/2020	0.002	0.007	0.005	0.013	<0.001	<0.005
	9/23/2020	0.004	0.008	0.004	0.010	0.001	<0.005
SSTLs GRP		0.608	122.000	85.100	175.000	2.430	2.430
MW-2	4/19/2019	0.149	0.621	0.417	0.947	0.032	0.074
	8/19/2019	0.211	0.764	0.616	1.730	0.016	0.166
	7/6/2020	0.124	0.634	0.611	1.630	0.008	0.192
	9/23/2020	0.061	0.305	0.408	0.934	0.004	0.097
SSTLs GRP		0.608	122.000	85.100	175.000	2.430	2.430
MW-3	4/19/2019	0.052	0.094	0.244	0.237	<0.001	0.079
	8/19/2019	2.220	4.560	0.864	2.360	<0.001	0.189
	7/6/2020	0.595	0.520	0.346	0.562	0.006	0.092
	9/23/2020	0.965	0.319	0.469	0.675	0.002	0.179
SSTLs GRP		0.608	122.000	85.100	175.000	2.430	2.430
MW-4	4/19/2019	0.025	0.099	0.002	0.099	0.025	<0.005
	<i>DUP-1</i>	<i>0.024</i>	<i>0.102</i>	<i>0.002</i>	<i>0.097</i>	<i>0.024</i>	<i><0.005</i>
	8/19/2019	0.004	0.007	0.001	0.003	0.005	<0.005
	7/6/2020	<0.001	<0.001	<0.001	<0.003	0.002	<0.005
9/23/2020	0.021	<0.001	<0.001	0.004	0.041	<0.005	
SSTLs GRP		0.608	122.000	85.100	175.000	2.430	2.430
MW-5	8/19/2019	<0.001	<0.001	<0.001	0.003	<0.001	<0.005
	7/6/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	9/23/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
SSTLs GRP		0.607	121.000	85.000	175.000	2.430	2.430
MW-6	8/19/2019	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	7/6/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	9/23/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	<i>DUP-1</i>	<i><0.001</i>	<i><0.001</i>	<i><0.001</i>	<i><0.003</i>	<i><0.001</i>	<i><0.005</i>
SSTLs GRP		0.514	103.000	71.900	175.000	2.050	2.050
MW-7	8/19/2019	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	7/6/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	9/23/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
SSTLs GRP		0.412	82.300	57.600	175.000	1.650	1.650
MW-8	8/19/2019	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	7/6/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	9/23/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
SSTLs GRP		0.523	105.000	73.300	175.000	2.090	2.090
MW-9	8/19/2019	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	7/6/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
	9/23/2020	<0.001	<0.001	<0.001	<0.003	<0.001	<0.005
SSTLs GRP		0.567	113.000	79.300	175.000	2.270	2.270
MW-10	8/19/2019	0.007	0.112	0.049	0.697	0.021	0.044
	7/6/2020	0.002	<0.001	0.002	<0.003	0.005	<0.005
	<i>DUP-1</i>	<i>0.002</i>	<i><0.001</i>	<i>0.002</i>	<i><0.003</i>	<i>0.005</i>	<i><0.005</i>
	9/23/2020	0.003	<0.001	0.003	<0.003	0.009	<0.005
SSTLs GRP		0.542	108.000	75.900	175.000	2.170	2.170

**HISTORICAL DISSOLVED COCs ANALYTICAL SUMMARY (Concluded)
INGRAM'S ONE STOP (UST19-03-01)**

MONITOR WELL	DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	TOTAL XYLENES (mg/L)	MTBE (mg/L)	NAPHTHALENE (mg/L)
MW-DW1*	8/19/2019	4.560	3.960	1.260	3.510	4.480	0.536
	DUP-1	4.480	3.720	1.220	3.410	4.720	0.464
	7/6/2020	3.550	6.960	3.140	9.810	2.530	0.408
	9/23/2020	2.530	4.340	2.120	6.030	2.360	0.408
SSTLs GRP		0.608	122.000	85.100	175.000	2.430	2.430
MW-DW2	7/6/2020	0.306	0.056	0.029	0.176	0.228	0.025
	9/23/2020	0.467	0.215	0.087	0.602	0.580	0.048
SSTLs GRP		0.607	121.000	85.000	175.000	2.430	2.430
MW-DW3	7/6/2020	0.001	0.008	0.004	0.023	<0.001	<0.005
	9/23/2020	0.010	0.006	0.005	0.012	0.003	<0.005
SSTLs GRP		0.608	122.000	85.100	175.000	2.430	2.430
MW-DW4	7/6/2020	<0.001	0.002	0.001	0.008	0.002	<0.005
	9/23/2020	0.017	0.010	0.011	0.022	0.006	<0.005
SSTLs GRP		0.608	122.000	85.100	175.000	2.430	2.430
MW-DW5	7/6/2020	0.806	1.020	0.401	0.871	0.448	0.110
	9/23/2020	0.834	1.000	0.396	0.897	0.567	0.088
SSTLs GRP		0.607	121.000	85.000	175.000	2.430	2.430
MW-DW6	7/6/2020	0.012	0.011	0.005	0.013	0.026	<0.005
	9/23/2020	<0.001	0.001	<0.001	<0.003	0.019	<0.005
SSTLs GRP		0.567	113.000	79.300	175.000	2.270	2.270
MW-DW7	7/6/2020	0.960	0.276	0.131	0.245	1.310	0.048
	9/23/2020	0.780	0.023	0.093	0.114	1.460	0.006
SSTLs GRP		0.608	122.000	85.100	175.000	2.430	2.430

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