

GEC

GEOTECHNICAL
&
ENVIRONMENTAL
CONSULTANTS, INC

April 19, 2019

Ms. Susan Kibler
Georgia Environmental Protection Division (EPD)
Hazardous Site Response Program
2 Martin Luther King, Jr. Dr., Suite 1154
Atlanta, Georgia 30334-9000

SUBJECT: Compliance Status Report (CSR) – Addendum #1
Former Macon 2 MGP Facility
HSI #10692
Macon, Bibb County, Georgia
GEC Job No. 130659.241

Dear Ms. Kibler:

Geotechnical & Environmental Consultants, Inc. (GEC) is pleased to present this Voluntary Remediation Program (VRP) Compliance Status Report (CSR) – Addendum #1, for the above referenced site. This amendment to the CSR was prepared and submitted on behalf of the Macon Bibb County Urban Development Authority and Macon-Bibb County, the current property owners.

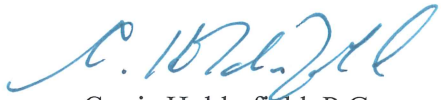
Per EPD request, this Amendment includes the following revisions and attachments:

1. Revisions to the Soil Remediation Table in Section 3.1. This table has been updated to correctly reflect information provided in the Analytical Summary Tables #1 and #2.
2. Revised Certification of Compliance with Risk Reduction Standards language.
3. An updated Topographic Survey for the site with revised Delineated Limits (Appendix I of the CSR).
4. A Transect Map for the Cross Sections provided as Figures 6 and 7.
5. Revised Cross Sections (Figures 6 and 7) to include the 15-foot use limitation line.
6. Boring logs for the 11 soil boring locations requiring excavation (Appendix VIII of the CSR- First Semi-Annual Progress Report)
7. Laboratory Analytical data for the clean material utilized to backfill the excavation.

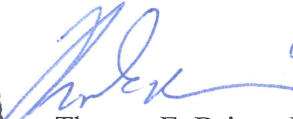
If you have any questions concerning this report or require additional information, please feel free to contact our office.

Sincerely,

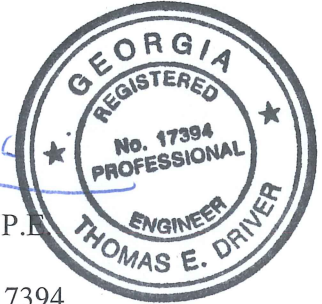
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.



Carrie Holderfield, P.G.
Project Geologist
Georgia Reg. No. 2174



Thomas E. Driver, P.E.
President
Georgia Reg. No. 17394



cc: Mr. Judd Drake, Macon-Bibb County Government
Mr. Alex Morrison, Macon-Bibb County Urban Development Authority

GEC

COMPLIANCE STATUS REPORT – ADDENDUM #1

**FORMER MACON 2 MGP FACILITY
MACON, BIBB COUNTY, GEORGIA
GEC JOB NO. 130659.241
HSI #10692**

SUBMITTED TO

**MS. SUSAN KIBLER
GEORGIA ENVIRONMENTAL PROTECTION DIVISION
HAZARDOUS SITE RESPONSE PROGRAM
2 MARTIN LUTHER KING, JR. DR., SUITE 1154
ATLANTA, GEORGIA 30334-9000**

PREPARED FOR

**MR. JUDD DRAKE
COUNTY ATTORNEY
MACON-BIBB COUNTY GOVERNMENT
700 POPLAR STREET
MACON, GEORGIA 31202**

AND

**MR. ALEX MORRISON
MACON-BIBB COUNTY URBAN DEVELOPMENT AUTHORITY
200 CHERRY STREET, SUITE 100
MACON, GEORGIA 31201**

PREPARED BY

**GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS, INC.
514 HILLCREST INDUSTRIAL BLVD
MACON, GEORGIA 31204**

ISSUE DATE

APRIL 19, 2019

CERTIFICATION OF COMPLIANCE WITH RISK REDUCTION STANDARDS

I certify under penalty of law that this report and all attachments were prepared under my direction in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Based upon my review of the findings of this report with respect to the risk reduction standards of the Rules for Hazardous Site Response (Rule 391-3-19-.07), and the provisions, purposes, standards, and policies of the Voluntary Remediation Program Act, I have determined that soil within the Restricted Use Zone (i.e., within the GEC Delineated Limits) at the property (as identified in the survey presented in Appendix I) is in compliance with Type 1 or 2 risk reduction standards for residential use from the ground surface to 15-feet below the ground surface and Type 5 risk reduction standards through the use of controls for soils located greater than 15-feet below the ground surface. In accordance with the Voluntary Remediation Program Act, controls being relied upon for compliance will be documented in a Uniform Environmental Covenant.

Signature: Robert A.B. Reichert

Date: April 30, 2019

Printed Name: Robert A.B. Reichert, Mayor

Title: Mayor

Company: Macon-Bibb County, Georgia

~And~

Signature: Alex Morrison

Date: 4-30-19

Printed Name: Alex Morrison

Title: Executive Director

Company: Macon-Bibb County Urban Development Authority

GROUNDWATER SCIENTIST CERTIFICATION STATEMENT

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding ground water monitoring and contaminant fate and transport. I further certify that this Compliance Status Report was prepared by myself and appropriate qualified subordinates working under my direction.



Carrie Holderfield, P.G.
Senior Geologist
Georgia Reg. #2174



4.29.2019

Date

The following table supersedes the previously submitted in Section 3.1 (page 17) of the draft CSR:

3.1 Soil Remediation Activities

All areas containing contaminated soil above residential risk reduction standards within the surface to the 15-foot interval were excavated and removed from the property. In all excavated areas, horizontal and vertical delineation was accomplished to below residential RRSs. All excavated areas were initially five (5) feet by five (5) feet areas excavated to varying depths. Sidewall samples were collected along all four walls and the bottom of the excavation pit and analyzed for the detected constituents in the area. If confirmatory results indicated the presence of the contaminant above residential RRSs, additional horizontal or vertical excavation was performed. The following table summarizes the excavated sample locations, detected contaminants, and size of excavation area.

COI	Boring ID	Dates of Excavation and Confirmation Sampling	Additional Excavation Required (Y/N)	Interval Requiring Excavation and Disposal (feet)	Approximate Excavation Dimensions l*w*d (feet)
Lead	GB-11	12/11/2017	Y	0.5-2	5 x 7 x 2
Lead	GB-14	12/12/2017	Y	0-5	5 x 7 x 5
Lead	GB-14	12/12/2017	Y		
Arsenic	GB-14	12/12/2017	Y	8-10	7 x 7 x 10
Arsenic	GB-27	12/11/2017	N	0-2	5 x 5 x 2
Lead	GB-28	12/12/2017	Y	13-15	5 x 9 x 15
Benzo(a)anthracene	SB-17	12/12/2017	Y	13-15	7 x 7 x 15
Benzo(a)pyrene	SB-17	12/12/2017	Y	13-15	
Benzo(b)fluoranthene	SB-17	12/12/2017	Y	13-15	
Arsenic	SB-20	12/11/2017	N	0-2	5 x 5 x 2
Benzo(a)pyrene	SB-24	12/11/2017	N	2-4	5 x 5 x 6
Benzo(a)pyrene	SB-24	12/11/2017	N	4-6	
Lead	SB-25	12/11/2017	N	2-4	5 x 5 x 4
Benzo(a)pyrene	SB-25	12/11/2017	N	2-4	
Lead	SB-27	12/12/2017	N	8-12	5 x 5 x 12
Benzo(a)pyrene	SB-42	12/11/2017	N	2-4	5 x 5 x 4
Lead	SB-45	12/12/2017	N	10-12	5 x 5 x 12

- LEGEND**
- PROPERTY LINE
STORM DRAIN PIPE
CONTOUR LINE
FENCE
WATER LINE
SANITARY SEWER LINE
TREELINE/SHRUBBERY
OVERHEAD POWER, TELEPHONE, & TELEVISION GUARDRAIL
EASEMENT
ASPHALT
CONCRETE
SPOT ELEVATION
DROP INLET
SANITARY SEWER MANHOLE
STORM DRAIN MANHOLE
LIGHT POLE
CORRUGATED METAL PIPE
POLYVINYL CHLORIDE PIPE
REINFORCED CONCRETE PIPE
FIRE HYDRANT
WATER VALVE
UTILITY POLE W/GUY
IRON PIN FOUND (AS NOTED)
IRON PIN SET (1/2" REBAR W/CAP)
NAIL SET
CALCULATED POINT
CONCRETE MONUMENT FOUND
BORE HOLES
POINT OF REFERENCE
POINT OF BEGINNING
- 408.4
DI
SSMH
SDMH
CMP
PVC
RCP
F
V
CMF
GB-19
P.O.R.
P.O.B.

REFERENCE DEEDS & PLATS

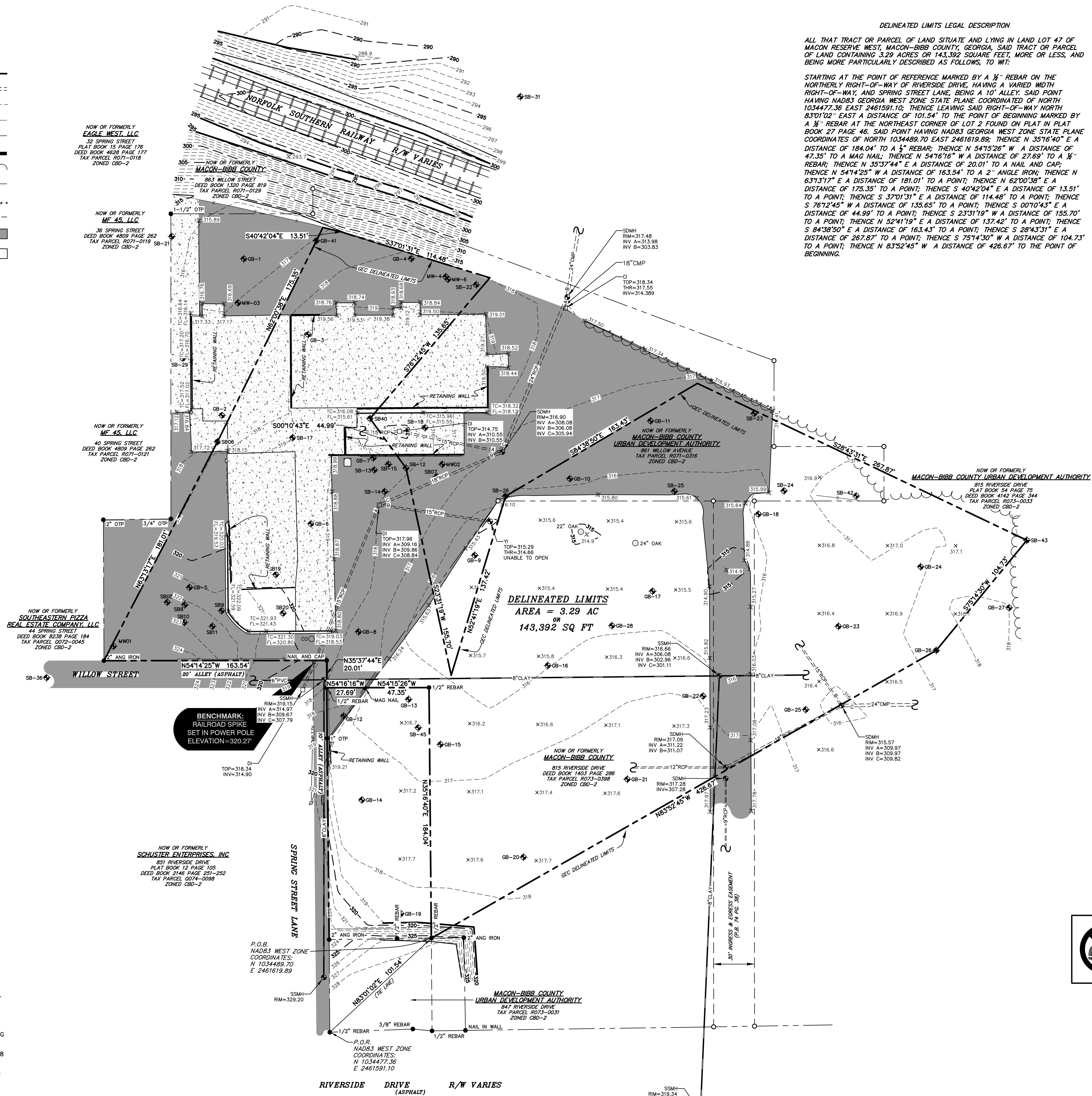
DEED BOOK 1403 PAGE 288 PLAT BOOK 12 PAGE 105
DEED BOOK 2146 PAGE 251-254 PLAT BOOK 27 PAGE 46
DEED BOOK 4142 PAGE 344
DEED BOOK 4412 PAGE 283
DEED BOOK 4628 PAGE 177
DEED BOOK 4809 PAGE 262
DEED BOOK 6089 PAGE 107
DEED BOOK 8084 PAGE 20
DEED BOOK 8238 PAGE 184
DEED BOOK 8919 PAGE 115

PROPERTY SURVEY FOR SCHUSTER ENTERPRISES, INC., PREPARED BY WADDLE & COMPANY, DATED 5/30/17 & REVISED 3/14/18

SITE MAP FOR THERMORETEC, INC. MACON #2 AGL BOUNDARY, PREPARED BY DONALDSON, GARRETT & ASSOCIATES, INC., DATED 4/25/01, REVISED 5/16/01

NOTES

- DONALDSON, GARRETT AND ASSOCIATES, INC. AND THE LAND SURVEYOR WHOSE SEAL IS AFFIXED HEREON DO NOT GUARANTEE THAT ALL EASEMENTS WHICH MAY AFFECT THIS PROPERTY ARE SHOWN.
- THIS DRAWING HAS BEEN GENERATED ELECTRONICALLY. THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT UNLESS IT BEARS THE SEAL AND ORIGINAL SIGNATURE OF A GEORGIA REGISTERED PROFESSIONAL SURVEYOR OF DONALDSON, GARRETT AND ASSOCIATES, INC.
- THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THIS DRAWING WERE COMPILED FROM FIELD OBSERVATIONS AND/OR PHYSICAL MARKINGS FOUND ON THE SUBJECT SITE. THIS INFORMATION MAY BE INACCURATE OR INCOMPLETE. VERIFICATION OF THE UTILITY LOCATIONS SHOULD BE MADE PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
- HORIZONTAL AND VERTICAL DATA IS TIED TO THE NAD83 & NAVD88 DATUMS AND IS BASED UPON RTK GPS OBSERVATIONS UTILIZING THE LEICA GEORGIA REFERENCE NETWORK.
- THE SUBJECT PARCEL IS DESIGNATED AS TAX PARCELS R073-0398 & R071-0316, AND IS ZONED CBD-2.
- A PORTION OF SUBJECT PROPERTY DESIGNATED AS BEING IN FLOOD ZONE AE, PER FEMA FIRM MAPS 13021C01326 & 13021C01346, EFFECTIVE DATE JUNE 7, 2017.
- BOUNDARY LINE SHOWN HEREON WAS TAKEN FROM REFERENCED SURVEYS. NO BOUNDARY WORK PERFORMED BY THIS SURVEYOR.



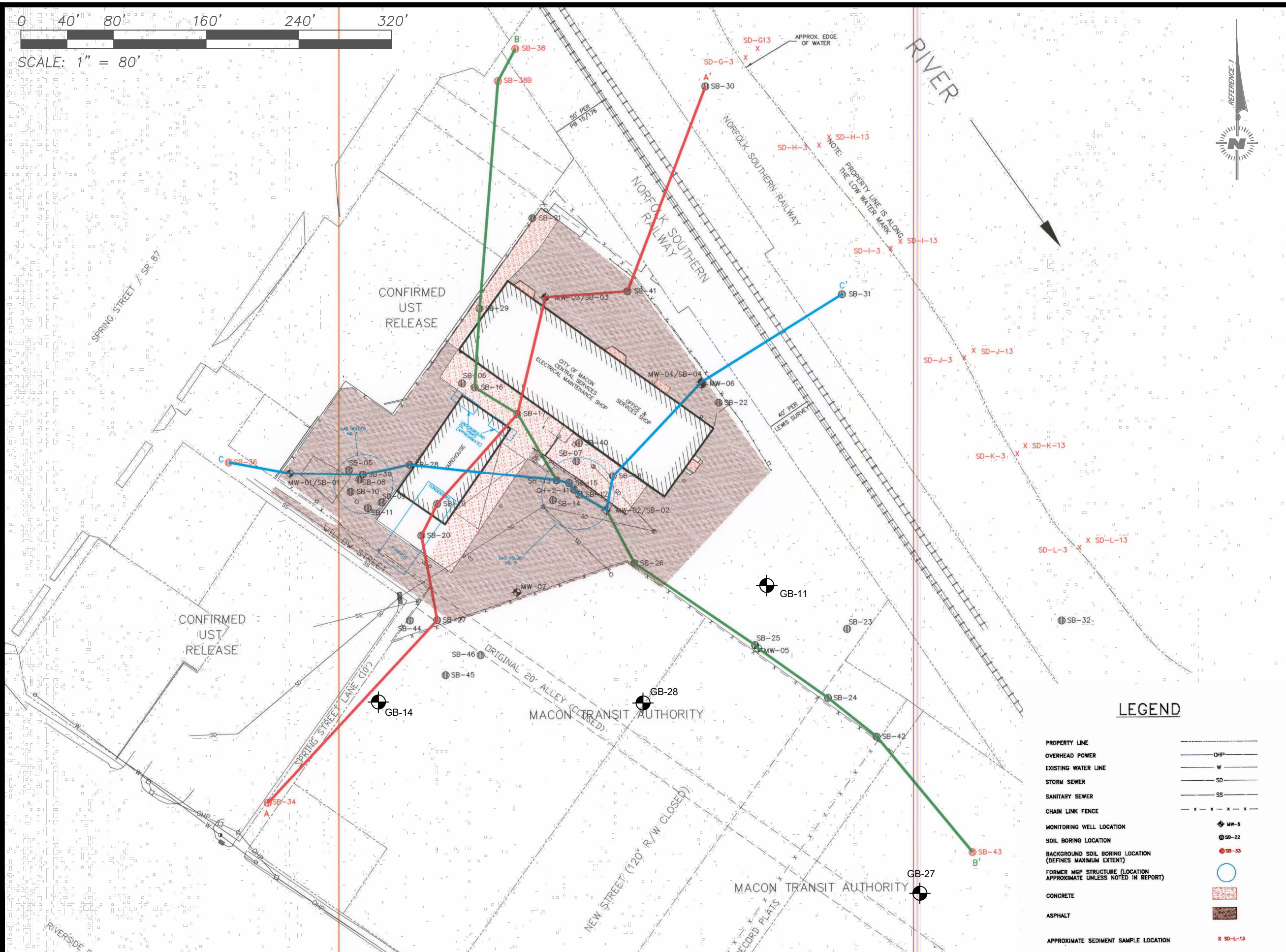
DONALDSON, GARRETT, & ASSOCIATES, INC.
MACON - CHARLOTTE
MACON - BOX 7306
MACON - BOX 1320
(478) 474-5350 Fax: (478) 477-2534
HUB: 77/www.dga.com



TOPOGRAPHIC SURVEY
FOR
MACON-BIBB COUNTY
OF
861 WILLOW STREET & 815 RIVERSIDE DRIVE
LAND LOT 47
MACON-BIBB COUNTY
MACON RESERVE WEST
GEORGIA

DATE	REVISIONS
12-5-18	REVISED TO ADD LEGAL DESCRIPTION AND AREA
3-29-19	CHANGE DELINEATED LIMITS TO EXCLUDE 4-4-19 DELINEATED LIMITS PER DNR REQUEST
4-4-19	DELINEATED LIMITS PER DNR REQUEST

SCALE:
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'
DATE: 6/18/18
DRAWING NO. 816-18-E
PROJ. NO.: 4064-018-D1
ALPH: C1198
DRWN: SLR/ABC
CHKD: ABC
APVD: ABC
RLS No: 3400



Cross-Section Site Map
Former Macon 2 MGP Site
861 Willow Street & 815 Riverside Drive
Macon, Bibb County, Georgia
GEC Project No. 130659.241



514 Hillcrest Industrial Boulevard, Macon, GA 31204 • Phone (478) 757-1806 • Fax (478) 757-1808
5031 Migen Court, Columbus, GA 31907 • Phone (706) 559-0008 • Fax (706) 559-0040

NORTHWEST
B

SOUTHEAST
B'

Explanation

BT=25' - Boring termination (feet below ground surface)

MW-02/SB-02 -- Well/boring/sample designation

Ba 0.178 mg/L - COI detected in groundwater and concentration (August 2003)

▼ — Water Table (measured March 29, 2001)

— — Contact between lithologies (Dashed where inferred)

- Visual observations of Tar-Like material and/or Oil-Like material

- Concentration of VOCs in the soil exceeding upper background limit (UBL)

- Concentration of SVOCs in the soil exceeding UBL

- Concentration of inorganics in soil exceeding UBL

- Not analyzed

- Blank cells indicate sample did not exceed background

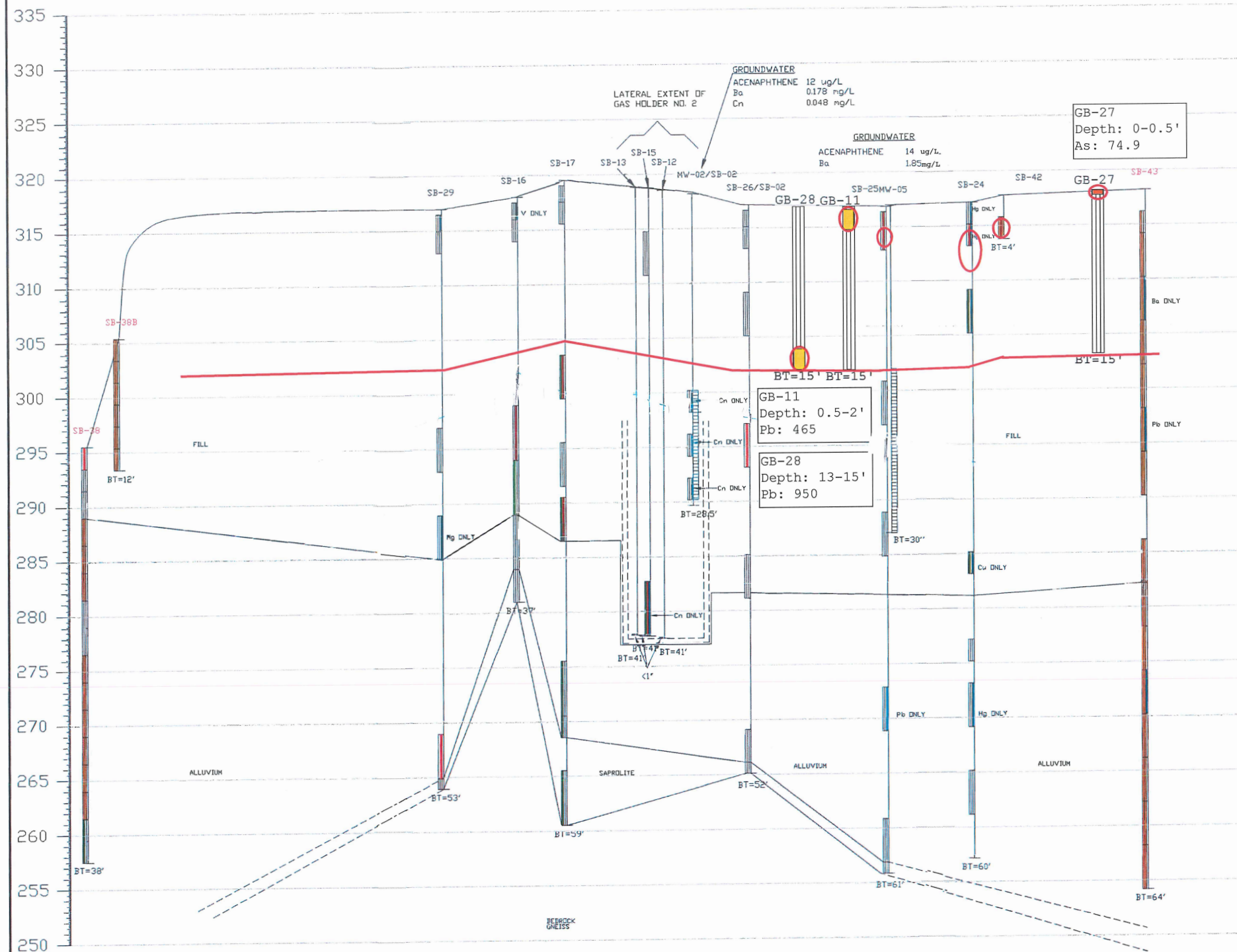
- Screened interval

- Inorganics > Type 2 RRS

- PAHs > Type 1 RRS

○ - Indicates soils exhibiting elevated (PAH, Pb, or As) concentrations were excavated during remedial activities.

 - Indicates 15-foot activity limitation.



All Concentrations Reported in mg/kg

Approx. HORIZONTAL SCALE 1' = 50'
Approx. VERTICAL SCALE 1' = 5'

Prepared By:

Williams Environmental Services, Inc.
A Subsidiary of Williams Group International, Inc.
500 Chase Park South, Suite 150, Birmingham, Alabama 35244
205-988-8305 Fax: 205-988-5249

CROSS SECTION B - B'

FORMER MACON 2 MGP FACILITY
MACON, GEORGIA

ENGINEERS' SEAL

DESIGNED	-
DRAWN	TCM
CHECKED	-
DATE	09/05/2003
FILENAME	FIGURE-8.DWG
PROJ. NUMBER	1100-2990
FIGURE NO.	8

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia				Boring No: GB-11			
Location: See attached cross section view				Project No: 130659.210			
Driller/Equipment: GEC/ Bobcat mounted Geoprobe				GS Elevation: - -			
Water Level: ---				Drilling Date: August 10, 2015			
				Senior Geologist: C. Holderfield			

Depth (ft)	Soil Symbol	Soil Description	Sample Type	PID (ppm)	Photo Ionization Detector Readings (ppm)					
					10	20	30	40	60	80
		ASPHALT PAVEMENT								
		FILL stiff, brown, Mostly sand and clay with debris: red brick, rubber, rock								
5			UD-1	0						
			UD-2	0						
10										
			UD-3	.1	0.1					
15		BORING TERMINATED AT 15.0ft								

• Boring and sampling performed in accordance with ASTM D 1586.
 • Depths are measured from existing ground surface at time of drilling.
 • Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
 • Do not use depths for determinations of quantities or distances.

NOTES: UD= Undisturbed Sample

ENVIRONMENTAL MGP.GPJ GEC.GDT 1/31/19

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia				Boring No: GB-14			
Location: See attached cross section view				Project No: 130659.210			
Driller/Equipment: GEC/ Bobcat mounted Geoprobe				GS Elevation: - -			
Water Level: ---				Drilling Date: August 6, 2015			
				Senior Geologist: C. Holderfield			

Depth (ft)	Soil Symbol	Soil Description	Sample Type	PID (ppm)	Photo Ionization Detector Readings (ppm)						
					10	20	30	40	60	80	
		TOPSOIL									
		brown, organic, dry									
		FILL									
		light brown, Mostly sand, silt and clay with debris: red brick and fragments. Evidence of burn/charred wood and rock									
5			UD-1	0							
			UD-2	0							
10		FILL									
		loose, black, Evidence of charred materials, glazed tile, rock and odor.									
		Slightly Moist									
			UD-3	0							
15		BORING TERMINATED AT 15.0ft									

ENVIRONMENTAL MGP/GPJ GEC/GDT 1/31/19

- Boring and sampling performed in accordance with ASTM D 1586.
- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES: UD= Undisturbed Sample

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia				Boring No: GB-27			
Location: See attached cross section view				Project No: 130659.210			
Driller/Equipment: GEC/ Bobcat mounted Geoprobe				GS Elevation: - -			
Water Level: ---				Drilling Date: August 10, 2015			
				Senior Geologist: C. Holderfield			

Depth (ft)	Soil Symbol	Soil Description	Sample Type	PID (ppm)	Photo Ionization Detector Readings (ppm)					
					10	20	30	40	60	80
		TOPSOIL								
		brown, organic; dry								
		FILL								
		loose, light brownish-tan, Dry; debris includes concrete red brick and rock								
5		darker brown, charred materials present with fewer rocks	UD-1	0.1						
			UD-2	0						
10										
			UD-3	0						
15		BORING TERMINATED AT 15.0ft								

ENVIRONMENTAL MGP/GPJ GEC/GDT 1/31/19

- Boring and sampling performed in accordance with ASTM D 1586.
- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES: UD= Undisturbed Sample

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia				Boring No: GB-28			
Location: See attached cross section view				Project No: 130659.210			
Driller/Equipment: GEC/ Bobcat mounted Geoprobe				GS Elevation: - -			
Water Level: ---				Drilling Date: August 6, 2015			
				Senior Geologist: C. Holderfield			

Depth (ft)	Soil Symbol	Soil Description	Sample Type	PID (ppm)	Photo Ionization Detector Readings (ppm)						
					10	20	30	40	60	80	
		TOPSOIL									
		brown, organic									
		FILL									
		loose, tan, very fine SAND ; Occasional purple clay and rocks									
5			UD-1	0							
			UD-2	0							
10											
		FILL									
		black, CLAY ; with rocks									
15			UD-3	0							
		BORING TERMINATED AT 15.0ft									

ENVIRONMENTAL MGP/GPJ GEC/GDT 1/31/19








- Boring and sampling performed in accordance with ASTM D 1586.
- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES: UD= Undisturbed Sample

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia				Boring No: SB-17			
Location: See attached cross section view				Project No: 130659.210			
Driller/Equipment: GEC/ Bobcat mounted Geoprobe				GS Elevation: - -			
Water Level: ---				Drilling Date: August 7, 2015			
				Senior Geologist: C. Holderfield			

Depth (ft)	Soil Symbol	Soil Description	Sample Type	PID (ppm)	Photo Ionization Detector Readings (ppm)					
					10	20	30	40	60	80
		CONCRETE								
		FILL stiff, light red, very fine silty SAND ; organics to 1 foot.								
5		FILL soft, brown, silty SAND ; Asphalt and charred material present.								
		FILL stiff, light brown, silty SAND								
10		FILL Contained silt, clay and sand. Debris including rocks, red brick, charred fragments and concrete.	UD-1	0.2	0.2					
										
			UD-2	0.3	0.3					
15		BORING TERMINATED AT 15.0ft								

ENVIRONMENTAL MGP/GPJ GEC/GDT 1/31/19

- Boring and sampling performed in accordance with ASTM D 1586.
- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES: UD= Undisturbed Sample

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia				Boring No: SB-20			
Location: See attached cross section view				Project No: 130659.210			
Driller/Equipment: GEC/ Bobcat mounted Geoprobe				GS Elevation: - -			
Water Level: ---				Drilling Date: August 7, 2015			
				Senior Geologist: C. Holderfield			

Depth (ft)	Soil Symbol	Soil Description	Sample Type	PID (ppm)	Photo Ionization Detector Readings (ppm)							
					10	20	30	40	60	80		
	TOPSOIL											
	organic		UD	0								
	FILL											
	Silty, sandy Clay		UD	0								
		BORING TERMINATED AT 4.0ft										
5												
10												
15												

ENVIRONMENTAL MGP/GPJ GEC/GDT 1/31/19










- Boring and sampling performed in accordance with ASTM D 1586.
- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES: UD= Undisturbed Sample

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia				Boring No: SB-24			
Location: See attached cross section view				Project No: 130659.210			
Driller/Equipment: GEC/ Bobcat mounted Geoprobe				GS Elevation: - -			
Water Level: ---				Drilling Date: August 6, 2015			
				Senior Geologist: C. Holderfield			

Depth (ft)	Soil Symbol	Soil Description	Sample Type	PID (ppm)	Photo Ionization Detector Readings (ppm)					
					10	20	30	40	60	80
		TOPSOIL								
		FILL								
		Rock and hard red clay								
5			UD-1	0						
			UD-2	0						
10			UD-3	0						
										
		black, with moist, organic filled material (wood)	UD-4	0						
15		BORING TERMINATED AT 15.0ft								

· Boring and sampling performed in accordance with ASTM D 1586.

· Depths are measured from existing ground surface at time of drilling.

· Depths are shown to illustrate general arrangements of the strata encountered at the boring location.

· Do not use depths for determinations of quantities or distances.

NOTES: UD= Undisturbed Sample

ENVIRONMENTAL MGP/GPJ GEC/GDT 1/31/19

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia				Boring No: SB-25			
Location: See attached cross section view				Project No: 130659.210			
Driller/Equipment: GEC/ Bobcat mounted Geoprobe				GS Elevation: - -			
Water Level: ---				Drilling Date: August 10, 2015			
				Senior Geologist: C. Holderfield			

Depth (ft)	Soil Symbol	Soil Description	Sample Type	PID (ppm)	Photo Ionization Detector Readings (ppm)						
					10	20	30	40	60	80	
		TOPSOIL									
		organic	UD-1	0							
		FILL brown, Silt and sand; rocks and brick found throughout									
		FILL loose, tan-white, Sand, silt and clay; occasional rocks	UD-2	0							
5			UD-3	0							
			UD-4	0							
10											
		FILL soft, brown, Sand, silt and clay; occasional small rocks									
			UD-5	0							
15											
		BORING TERMINATED AT 15.0ft									

ENVIRONMENTAL MGP/GPJ GEC/GDT 1/31/19

- Boring and sampling performed in accordance with ASTM D 1586.
- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES: UD= Undisturbed Sample

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia			Boring No: SB-27		
Location: See attached cross section view			Project No: 130659.210		
Driller/Equipment: Williams/ Unknown			GS Elevation: - -		
Water Level: ---			Drilling Date: August 25, 2003		
			Senior Geologist: Unknown		

Depth (ft)	Soil Symbol	Soil Description			
		TOPSOIL			
		FILL			
		Soil Description Based Upon Observations During Excavation Activities Only			
		Sandy CLAY, glass and miscellaneous debris			
5					
10					
15		BORING TERMINATED AT 12.0ft			

ENVIRONMENTAL MGP/GPJ GEC/GDT 1/31/19

- Boring and sampling performed in accordance with ASTM D 1586.
- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia						Boring No: SB-42					
Location: See attached cross section view						Project No: 130659.210					
Driller/Equipment: GEC/ Bobcat mounted Geoprobe						GS Elevation: - -					
Water Level: ---						Drilling Date: August 6, 2015					
						Senior Geologist: C. Holderfield					

Depth (ft)	Soil Symbol	Soil Description	Sample Type	PID (ppm)	Photo Ionization Detector Readings (ppm)							
					10	20	30	40	60	80		
		TOPSOIL										
		brown, organic										
		FILL										
		Sand and rocks present										
			UD-1	0								
		FILL										
5		loose, light brown, sandy; dry	UD-2	0								
		FILL										
		reddish brown, silty; rock fragments. Black charred material present at 14.5'	UD-3	0								
10												
			UD-4	0								
15		BORING TERMINATED AT 15.0ft										

ENVIRONMENTAL MGP/GPJ GEC/GDT 1/31/19

- Boring and sampling performed in accordance with ASTM D 1586.
- Depths are measured from existing ground surface at time of drilling.
- Depths are shown to illustrate general arrangements of the strata encountered at the boring location.
- Do not use depths for determinations of quantities or distances.

NOTES: UD= Undisturbed Sample

SOIL BORING RECORD

Page 1 of 1

Project: Former Macon 2 MGP Facility Macon, Bibb County, Georgia			Boring No: SB-45		
Location: See attached cross section view			Project No: 130659.210		
Driller/Equipment: Williams/ Unknown			GS Elevation: - -		
Water Level: ---			Drilling Date: August 25, 2003		
			Senior Geologist: Unknown		

Depth (ft)	Soil Symbol	Soil Description			
		TOPSOIL			
		FILL			
		Soil Description Based Upon Observations During Excavation Activities Only			
		Sandy CLAY, glass, bottles, wood, and rocks			
5					
10					
15		BORING TERMINATED AT 12.0ft			
<ul style="list-style-type: none"> · Boring and sampling performed in accordance with ASTM D 1586. · Depths are measured from existing ground surface at time of drilling. · Depths are shown to illustrate general arrangements of the strata encountered at the boring location. · Do not use depths for determinations of quantities or distances. 					

ENVIRONMENTAL MGP.GPJ GEC.GDT 1/31/19

514 Hillcrest Industrial Blvd., Macon, GA 31204
 5031 Milgen Court, Columbus, GA 31907

GEC
GEOTECHNICAL & ENVIRONMENTAL
C O N S U L T A N T S



A&D Environmental Services

A member of The RossWay Group®



Tuft Springs Road
Macon, GA 31206
www.adenviro.com

Marc Kurz
Project Chemist
mkurz@adenviro.com
Mobile Phone: (478) 955-3216

February 4, 2019

Carrie Holderfield, P.G., PMP
Geotechnical & Environmental Consultants, Inc.
514 Hillcrest Industrial Boulevard
Macon, Georgia 31204

cholderfield@geoconsultants.com

Subject: Clean Backfill Source
Former MGP Site #2
Riverside Drive and Spring Street
Macon, GA

Dear Ms. Holderfield:

This letter is provided based on your verbal request for information concerning clean backfill material that was provided for the above referenced site. The project involved excavating impacted soils and backfilling the excavations with clean backfill.

A&D collected a sample of the clean backfill source on June 8, 2017. A copy of the laboratory analytical for the clean backfill sample is attached. The backfill material was collected from a source located at 4040 Lazy Lane, Macon, GA 31217 (as noted on the Chain of Custody). This backfill material was also used by A&D Environmental as a backfill source for another project known as Triangle Chemical Corporation. Triangle Chemical Corporation is identified in the subject line of the attached analytical report and in the project name section of the Chain of Custody Report. The same source of clean backfill was used at the Former MGP Site #2. To clarify, the source of clean fill has nothing to do with the Triangle Chemical site other than that it was used at that site and the Former MGP Site #2 at Riverside and Spring Street.

Please let me know if you have any further questions or need additional information.

Sincerely,

Marc Kurz
Project Chemist
A&D Environmental Services, LLC



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

July 03, 2017

Marc Kurz
A&D Environmental
100 Waste Research Drive
Macon, GA 31206
TEL: (478) 788-8899
FAX:

RE: Triangle Chemical Company

Dear Marc Kurz:

Order No.: 17060760

Summit Environmental Technologies, Inc. received 1 sample(s) on 6/14/2017 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Holly Florea

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 07256CA, Colorado, Connecticut PH-0108, Delaware, Florida NELAC E87688, Georgia E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Louisiana 04061, Maryland 339, Minnesota 409711, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Oklahoma 9940, Oregon OH200001, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-11-5, Utah OH009232011-1, Virginia 00440 and 1581, Washington C891



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Website: <http://www.settek.com>

Case Narrative

WO#: 17060760
Date: 7/3/2017

CLIENT: A&D Environmental
Project: Triangle Chemical Company

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. State Certificates and Scopes of Accreditation are attached as applicable. Results provided in this report for any parameter not listed on the Scope of Accreditation should be considered "not certified."

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Prep Comments for SVPrep_BNATot_TCLP(3510), Sample 17060760-001A: Prep's Prep Method hold time was exceeded by 6 day(s)

Prep Comments for SVPrep_CPest_TCLP(3510), Sample 17060760-001A: Prep's Prep Method hold time was exceeded by 6 day(s)

Prep Comments for SVPrep_TCLP(8151), Sample 17060760-001A: Prep's Prep Method hold time was exceeded by 6 days.

Analytical Comments for tc1p-voc-mstr_tc1p(8260), Sample 17060760-001AMS, Batch ID R71408 : no msd due to autosampler error

Original



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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Case Narrative

WO#: 17060760
Date: 7/3/2017

CLIENT: A&D Environmental
Project: Triangle Chemical Company

Analytical Comments for tclp-svoc-cpest_tclp(8081), Sample 17060760-001a, Batch ID 27567 :
Sample was analyzed past holding time.

Analytical Comments for svoc-cpest_npw(8081), Sample ccv-00000, Batch ID R71492 : CCV recovery
for Endrin aldehyde was biased low; not an analyte of interest

Analytical Comments for tclp-svoc-herb_tclp(8151), Sample 17060760-001a, Batch ID 27583 : Sample
was analyzed past holding time.

Analytical Comments for SVOC-BNA_TCLP(8270), Sample 17060760-001A, Batch ID 27566 :
Sample was analyzed past holding time.

Original



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Workorder Sample Summary

WO#: **17060760**
03-Jul-17

CLIENT: A&D Environmental
Project: Triangle Chemical Company

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
17060760-001	TCC-Fillsoil		6/8/2017 12:00:00 PM	6/14/2017 11:30:00 AM	Solid



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

Summit Environmental Technologies, Inc.
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WO#: 17060760
Date Reported: 7/3/2017
Company: A&D Environmental
Address: 100 Waste Research Drive
Macon GA 31206
Received: 6/14/2017
Project#: Triangle Chemic

TCLP Metals Analysis (SW1311/6010)

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result Units	Matrix	Method	DF	RegLvl	Run	Analyst
TCC-Fillsoil	001	6/8/2017	TCLP Arsenic(As)	0.500	ND mg/L	Solid	EPA 6010 C	1	5.00	6/16/2017	VVK
TCC-Fillsoil	001	6/8/2017	TCLP Barium(Ba)	5.00	ND mg/L	Solid	EPA 6010 C	1	100	6/16/2017	VVK
TCC-Fillsoil	001	6/8/2017	TCLP Cadmium(Cd)	0.100	ND mg/L	Solid	EPA 6010 C	1	1.00	6/16/2017	VVK
TCC-Fillsoil	001	6/8/2017	TCLP Chromium(Cr)	0.200	ND mg/L	Solid	EPA 6010 C	1	5.00	6/16/2017	VVK
TCC-Fillsoil	001	6/8/2017	TCLP Lead(Pb)	0.500	ND mg/L	Solid	EPA 6010 C	1	5.00	6/16/2017	VVK
TCC-Fillsoil	001	6/8/2017	TCLP Selenium(Se)	0.500	ND mg/L	Solid	EPA 6010 C	1	1.00	6/16/2017	VVK
TCC-Fillsoil	001	6/8/2017	TCLP Silver(Ag)	0.500	ND mg/L	Solid	EPA 6010 C	1	5.00	6/16/2017	VVK

TCLP Mercury Analysis (SW1311/7470)

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result Units	Matrix	Method	DF	RegLvl	Run	Analyst
TCC-Fillsoil	001	6/8/2017	TCLP Mercury	0.00200	ND mg/L	Solid	EPA 7470 A	1	0.200	6/16/2017	ALJ

TCLP Pesticides Analysis (SW1311/8081)

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result Units	Matrix	Method	DF	RegLvl	Run	Analyst
TCC-Fillsoil	001	6/8/2017	Chlordane, total	0.0100	ND mg/L	Solid	EPA 8081 B	1	0.0300	6/28/2017	JBN
TCC-Fillsoil	001	6/8/2017	Toxaphene	0.0200	ND mg/L	Solid	EPA 8081 B	1	0.500	6/28/2017	JBN
TCC-Fillsoil	001	6/8/2017	Endrin	0.00100	ND mg/L	Solid	EPA 8081 B	1	0.0200	6/28/2017	JBN
TCC-Fillsoil	001	6/8/2017	gamma-BHC	0.00100	ND mg/L	Solid	EPA 8081 B	1	0.400	6/28/2017	JBN
TCC-Fillsoil	001	6/8/2017	Heptachlor	0.00100	ND mg/L	Solid	EPA 8081 B	1	0.00800	6/28/2017	JBN
TCC-Fillsoil	001	6/8/2017	Heptachlor epoxide	0.00100	ND mg/L	Solid	EPA 8081 B	1	0.00800	6/28/2017	JBN
TCC-Fillsoil	001	6/8/2017	Methoxychlor	0.00100	ND mg/L	Solid	EPA 8081 B	1	10.0	6/28/2017	JBN

TCLP Herbicides Analysis (SW1311/8151)

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result Units	Matrix	Method	DF	RegLvl	Run	Analyst
TCC-Fillsoil	001	6/8/2017	2,4-D	1.00	ND mg/L	Solid	EPA 8151 A	1	10.0	6/29/2017	JBN
TCC-Fillsoil	001	6/8/2017	2,4,5-TP	0.500	ND mg/L	Solid	EPA 8151 A	1	1.00	6/29/2017	JBN



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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

WO#: 17060760
Date Reported: 7/3/2017
Company: A&D Environmental
Address: 100 Waste Research Drive
Macon GA 31206
Received: 6/14/2017
Project#: Triangle Chemic

TCLP Volatiles Analysis (SW1311/8260)

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
TCC-Fillsoil	001	6/8/2017	1,1-Dichloroethene	0.100	ND	mg/L	Solid	EPA 8260 B	1	0.700	6/28/2017	MES
TCC-Fillsoil	001	6/8/2017	1,2-Dichloroethane	0.100	ND	mg/L	Solid	EPA 8260 B	1	0.500	6/28/2017	MES
TCC-Fillsoil	001	6/8/2017	MEK	2.00	ND	mg/L	Solid	EPA 8260 B	1	200	6/28/2017	MES
TCC-Fillsoil	001	6/8/2017	Benzene	0.100	ND	mg/L	Solid	EPA 8260 B	1	0.500	6/28/2017	MES
TCC-Fillsoil	001	6/8/2017	Carbon tetrachloride	0.100	ND	mg/L	Solid	EPA 8260 B	1	0.500	6/28/2017	MES
TCC-Fillsoil	001	6/8/2017	Chlorobenzene	0.100	ND	mg/L	Solid	EPA 8260 B	1	100	6/28/2017	MES
TCC-Fillsoil	001	6/8/2017	Chloroform	0.100	ND	mg/L	Solid	EPA 8260 B	1	6.00	6/28/2017	MES
TCC-Fillsoil	001	6/8/2017	Tetrachloroethene	0.100	ND	mg/L	Solid	EPA 8260 B	1	0.700	6/28/2017	MES
TCC-Fillsoil	001	6/8/2017	Trichloroethene	0.100	ND	mg/L	Solid	EPA 8260 B	1	0.500	6/28/2017	MES
TCC-Fillsoil	001	6/8/2017	Vinyl chloride	0.200	ND	mg/L	Solid	EPA 8260 B	1	0.200	6/28/2017	MES

TCLP Semi-Volatiles Analysis (SW1311/8270)

Client ID#	Lab ID#	Collected	Analyte	Rep Lmt	Result	Units	Matrix	Method	DF	RegLvl	Run	Analyst
TCC-Fillsoil	001	6/8/2017	1,4-Dichlorobenzene	0.0800	ND	mg/L	Solid	EPA 8270 C	2	7.50	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	2,4,5-Trichlorophenol	0.200	ND	mg/L	Solid	EPA 8270 C	2	400	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	2,4,6-Trichlorophenol	0.200	ND	mg/L	Solid	EPA 8270 C	2	2.00	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	2,4-Dinitrotoluene	0.100	ND	mg/L	Solid	EPA 8270 C	2	0.130	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	Cresols, Total	4.00	ND	mg/L	Solid	EPA 8270 C	2	200	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	Hexachloro-1,3-butadiene	0.100	ND	mg/L	Solid	EPA 8270 C	2	0.500	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	Hexachlorobenzene	0.100	ND	mg/L	Solid	EPA 8270 C	2	0.130	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	Hexachloroethane	0.0800	ND	mg/L	Solid	EPA 8270 C	2	3.00	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	Nitrobenzene	0.0800	ND	mg/L	Solid	EPA 8270 C	2	2.00	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	Pentachlorophenol	0.200	ND	mg/L	Solid	EPA 8270 C	2	100	7/1/2017	CxA
TCC-Fillsoil	001	6/8/2017	Pyridine	0.200	ND	mg/L	Solid	EPA 8270 C	2	5.00	7/1/2017	CxA



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QC SUMMARY REPORT

WO#: 17060760
03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27377

Sample ID: MB-27377	SampType: MBLK	TestCode: Mtl-TCLP-7(6) Units: mg/L			Prep Date: 6/16/2017			RunNo: 70899			
Client ID: PBW	Batch ID: 27377	TestNo: SW6010C		SW3010A	Analysis Date: 6/16/2017			SeqNo: 1173621			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Arsenic(As)	ND	0.500									
TCLP Barium(Ba)	ND	5.00									
TCLP Cadmium(Cd)	ND	0.100									
TCLP Chromium(Cr)	ND	0.200									
TCLP Lead(Pb)	ND	0.500									
TCLP Selenium(Se)	ND	0.500									
TCLP Silver(Ag)	ND	0.500									

Sample ID: LCS-27377	SampType: LCS	TestCode: Mtl-TCLP-7(6) Units: mg/L				Prep Date: 6/16/2017			RunNo: 70899		
Client ID: LCSW	Batch ID: 27377	TestNo: SW6010C		SW3010A		Analysis Date: 6/16/2017			SeqNo: 1173622		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Arsenic(As)	1.95	0.500	2.000	0	97.4	80	120				
TCLP Barium(Ba)	ND	5.00	2.000	0	98.2	80	120				
TCLP Cadmium(Cd)	1.96	0.100	2.000	0	98.0	80	120				
TCLP Chromium(Cr)	1.97	0.200	2.000	0	98.4	80	120				
TCLP Lead(Pb)	1.96	0.500	2.000	0	98.2	80	120				
TCLP Selenium(Se)	1.96	0.500	2.000	0	98.2	80	120				
TCLP Silver(Ag)	0.978	0.500	1.000	0	97.8	80	120				

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

Original



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QC SUMMARY REPORT

WO#: 17060760

03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27381

Sample ID: MB-27381	SampType: MBLK	TestCode: HG_TCLP(74	Units: PPM	Prep Date: 6/16/2017	RunNo: 70926						
Client ID: PBW	Batch ID: 27381	TestNo: SW7470A	SW7470A	Analysis Date: 6/16/2017	SeqNo: 1172938						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	ND	0.00200									

Sample ID: LCS-27381	SampType: LCS	TestCode: HG_TCLP(74	Units: PPM	Prep Date: 6/16/2017	RunNo: 70926						
Client ID: LCSW	Batch ID: 27381	TestNo: SW7470A	SW7470A	Analysis Date: 6/16/2017	SeqNo: 1172939						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.00400	0.00200	0.00400	0	100	80	120				

Sample ID: 17060756-001AMS	SampType: MS	TestCode: HG_TCLP(74	Units: PPM	Prep Date: 6/16/2017	RunNo: 70926						
Client ID: BatchQC	Batch ID: 27381	TestNo: SW7470A	SW7470A	Analysis Date: 6/16/2017	SeqNo: 1172943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.00382	0.00200	0.00400	0.0000300	94.8	75	125				

Sample ID: 17060756-001AMSD	SampType: MSD	TestCode: HG_TCLP(74	Units: PPM	Prep Date: 6/16/2017	RunNo: 70926						
Client ID: BatchQC	Batch ID: 27381	TestNo: SW7470A	SW7470A	Analysis Date: 6/16/2017	SeqNo: 1172944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TCLP Mercury	0.00383	0.00200	0.00400	0.0000300	95.0	75	125	0.00382	0.261	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

Original



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Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 17060760
03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27381

Sample ID: 17060756-001AMSD	SampType: MSD	TestCode: HG_TCLP(74	Units: PPM	Prep Date: 6/16/2017	RunNo: 70926						
Client ID: BatchQC	Batch ID: 27381	TestNo: SW7470A	SW7470A	Analysis Date: 6/16/2017	SeqNo: 1172944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
	MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
	P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

Original



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Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 17060760

03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27566

Sample ID: MB-27566	SampType: MBLK	TestCode: SVOC-BNA_T Units: mg/L			Prep Date: 6/28/2017				RunNo: 71552		
Client ID: PBW	Batch ID: 27566	TestNo: SW8270C		SW3510C	Analysis Date: 6/30/2017				SeqNo: 1187011		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.0400									
2,4,5-Trichlorophenol	ND	0.100									
2,4,6-Trichlorophenol	ND	0.100									
2,4-Dinitrotoluene	ND	0.0200									
Cresols, Total	ND	2.00									
Hexachloro-1,3-butadiene	ND	0.00800									
Hexachlorobenzene	ND	0.0200									
Hexachloroethane	ND	0.0400									
Nitrobenzene	ND	0.0400									
Pentachlorophenol	ND	0.100									
Pyridine	ND	0.100									

Sample ID: LCS-27566	SampType: LCS	TestCode: SVOC-BNA_T Units: mg/L				Prep Date: 6/28/2017			RunNo: 71552		
Client ID: LCSW	Batch ID: 27566	TestNo: SW8270C		SW3510C		Analysis Date: 6/30/2017			SeqNo: 1187012		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.612	0.0400	0.8000	0	76.5	19.1	126				
2,4,5-Trichlorophenol	0.773	0.100	0.8000	0	96.7	11.7	151				
2,4,6-Trichlorophenol	0.774	0.100	0.8000	0	96.7	12.4	150				
2,4-Dinitrotoluene	0.823	0.0200	0.8000	0	103	20.6	140				
Cresols, Total	ND	2.00	1.600	0	80.0	10	129				
Hexachloro-1,3-butadiene	0.741	0.00800	0.8000	0	92.6	14.7	137				

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

Original



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QC SUMMARY REPORT

WO#: 17060760

03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27566

Sample ID: LCS-27566	SampType: LCS	TestCode: SVOC-BNA_T Units: mg/L				Prep Date: 6/28/2017			RunNo: 71552		
Client ID: LCSW	Batch ID: 27566	TestNo: SW8270C		SW3510C		Analysis Date: 6/30/2017			SeqNo: 1187012		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobenzene	0.805	0.0200	0.8000	0	101	12	139				
Hexachloroethane	0.585	0.0400	0.8000	0	73.1	14.8	132				
Nitrobenzene	0.517	0.0400	0.8000	0	64.7	15.6	138				
Pentachlorophenol	0.775	0.100	0.8000	0	96.9	10	156				
Pvridine	ND	0.100	0.8000	0	8.75	1	130				

Sample ID: 17061358-002AMS	SampType: MS	TestCode: SVOC-BNA_T Units: mg/L				Prep Date: 6/28/2017			RunNo: 71552		
Client ID: BatchQC	Batch ID: 27566	TestNo: SW8270C		SW3510C		Analysis Date: 6/30/2017			SeqNo: 1187014		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.338	0.0800	0.8000	0	42.3	15.2	124				QMR
2,4,5-Trichlorophenol	0.351	0.200	0.8000	0	43.8	30.6	152				mQMR
2,4,6-Trichlorophenol	0.340	0.200	0.8000	0	42.5	27.6	150				QMR
2,4-Dinitrotoluene	0.0940	0.0400	0.8000	0	11.8	58	141				SQMR
Cresols, Total	ND	4.00	1.600	0.1568	7.78	27.6	132				SQMR
Hexachloro-1,3-butadiene	0.366	0.0160	0.8000	0	45.8	-5.3	156				QMR
Hexachlorobenzene	0.492	0.0400	0.8000	0	61.5	54.3	142				QMR
Hexachloroethane	0.257	0.0800	0.8000	0	32.2	1.92	131				QMR
Nitrobenzene	0.304	0.0800	0.8000	0	38.0	21	135				QMR
Pentachlorophenol	ND	0.200	0.8000	0	21.0	47.4	134				SmQMR
Pyridine	ND	0.200	0.8000	0	24.6	-10.3	64.2				

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 17060760

03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27566

Sample ID: 17061358-002AMSD	SampType: MSD	TestCode: SVOC-BNA_T Units: mg/L				Prep Date: 6/28/2017			RunNo: 71552		
Client ID: BatchQC	Batch ID: 27566	TestNo: SW8270C		SW3510C		Analysis Date: 6/30/2017			SeqNo: 1187015		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.708	0.0800	0.8000	0	88.6	15.2	124	0.3384	70.7	30	R
2,4,5-Trichlorophenol	0.860	0.200	0.8000	0	108	30.6	152	0.3508	84.1	30	Rm
2,4,6-Trichlorophenol	0.993	0.200	0.8000	0	124	27.6	150	0.3396	98.0	30	Rm
2,4-Dinitrotoluene	1.21	0.0400	0.8000	0	151	58	141	0.09400	171	30	RS
Cresols, Total	ND	4.00	1.600	0.1568	98.7	27.6	132	0	0	30	R
Hexachloro-1,3-butadiene	0.890	0.0160	0.8000	0	111	-5.3	156	0.3660	83.5	30	R
Hexachlorobenzene	1.06	0.0400	0.8000	0	133	54.3	142	0.4920	73.6	30	R
Hexachloroethane	0.707	0.0800	0.8000	0	88.4	1.92	131	0.2572	93.3	30	R
Nitrobenzene	0.574	0.0800	0.8000	0	71.8	21	135	0.3040	61.5	30	R
Pentachlorophenol	0.719	0.200	0.8000	0	89.9	47.4	134	0.1684	124	30	R
Pyridine	0.239	0.200	0.8000	0	29.9	-10.3	64.2	0.1972	19.2	30	

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC	Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P	Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 17060760
03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27567

Sample ID: mb-27567	SampType: mbk	TestCode: tcip-svoc-cpe	Units: mg/L	Prep Date: 6/28/2017	RunNo: 71492						
Client ID: PBW	Batch ID: 27567	TestNo: SW8081A	SW3510C	Analysis Date: 6/28/2017	SeqNo: 1185944						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlordane, total	ND	0.0100									
Toxaphene	ND	0.0200									
Endrin	ND	0.00100									
gamma-BHC	ND	0.00100									
Heptachlor	ND	0.00100									
Heptachlor epoxide	ND	0.00100									
Methoxychlor	ND	0.00100									

Sample ID: lcs-27567	SampType: lcs	TestCode: tcip-svoc-cpe	Units: mg/L	Prep Date: 6/28/2017	RunNo: 71492						
Client ID: LCSW	Batch ID: 27567	TestNo: SW8081A	SW3510C	Analysis Date: 6/28/2017	SeqNo: 1185945						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endrin	0.0109	0.00100	0.0100	0	109	20	157				
gamma-BHC	0.00926	0.00100	0.0100	0	92.6	22	137				
Heptachlor	0.0106	0.00100	0.0100	0	106	24	121				
Heptachlor epoxide	0.00969	0.00100	0.0100	0	96.9	27	152				
Methoxychlor	0.0113	0.00100	0.0100	0	113	10	199				

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 17060760

03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27567

Sample ID: 17061358-003ams	SampType: ms	TestCode: tclp-svoc-cpe Units: mg/L				Prep Date: 6/28/2017			RunNo: 71492		
Client ID: BatchQC	Batch ID: 27567	TestNo: SW8081A		SW3510C		Analysis Date: 6/28/2017			SeqNo: 1185946		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endrin	0.00745	0.00100	0.0100	0	74.5	20	157				m
gamma-BHC	0.00652	0.00100	0.0100	0	65.2	22	137				m
Heptachlor	0.00614	0.00100	0.0100	0	61.4	24	121				m
Heptachlor epoxide	0.00685	0.00100	0.0100	0	68.5	27	152				m
Methoxychlor	0.00652	0.00100	0.0100	0	65.2	10	199				m

Sample ID: 17061358-003amsd	SampType: msd	TestCode: tclp-svoc-cpe Units: mg/L				Prep Date: 6/28/2017			RunNo: 71492		
Client ID: BatchQC	Batch ID: 27567	TestNo: SW8081A		SW3510C		Analysis Date: 6/28/2017			SeqNo: 1185947		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endrin	0.00813	0.00100	0.0100	0	81.3	20	157	0.00745	8.83	30	m
gamma-BHC	0.00698	0.00100	0.0100	0	69.8	22	137	0.00652	6.72	30	m
Heptachlor	0.00695	0.00100	0.0100	0	69.5	24	121	0.00614	12.5	30	m
Heptachlor epoxide	0.00721	0.00100	0.0100	0	72.1	27	152	0.00685	5.11	30	m
Methoxychlor	0.00826	0.00100	0.0100	0	82.6	10	199	0.00652	23.6	30	m

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 17060760

03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27583

Sample ID: mb-27583	SampType: mbk	TestCode: tcip-svoc-her	Units: mg/L	Prep Date: 6/28/2017	RunNo: 71509						
Client ID: PBW	Batch ID: 27583	TestNo: SW8151A	SW8151A	Analysis Date: 6/29/2017	SeqNo: 1186159						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	ND	1.00		0	0						m
2,4,5-TP	ND	0.500		0	0						

Sample ID: lcs-27583	SampType: lcs	TestCode: tcip-svoc-her	Units: mg/L	Prep Date: 6/28/2017	RunNo: 71509						
Client ID: LCSW	Batch ID: 27583	TestNo: SW8151A	SW8151A	Analysis Date: 6/29/2017	SeqNo: 1186160						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	ND	1.00	0.500	0	93.4	62.6	125				
2,4,5-TP	ND	0.500	0.500	0	84.9	52.5	128				

Sample ID: 17060760-001ams	SampType: ms	TestCode: tcip-svoc-her	Units: mg/L	Prep Date: 6/28/2017	RunNo: 71509						
Client ID: TCC-Fillsoil	Batch ID: 27583	TestNo: SW8151A	SW8151A	Analysis Date: 6/29/2017	SeqNo: 1186161						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	ND	1.00	0.500	0	88.3	37	105				H
2,4,5-TP	ND	0.500	0.500	0	80.8	38	106				H

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 17060760
03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: 27583

Sample ID: 17060760-001amsd	SampType: msd	TestCode: tc1p-svoc-her	Units: mg/L	Prep Date: 6/28/2017	RunNo: 71509						
Client ID: TCC-Fillsoil	Batch ID: 27583	TestNo: SW8151A	SW8151A	Analysis Date: 6/29/2017	SeqNo: 1186162						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	ND	1.00	0.500	0	95.9	37	105	0	0	30	H
2,4,5-TP	ND	0.500	0.500	0	87.9	38	106	0	0	30	H

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
	MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
	P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 17060760

03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: R71408a

Sample ID: Ics 20ppb 1236	SampType: LCS	TestCode: tc1p-voc-mstr	Units: mg/L	Prep Date:				RunNo: 71408			
Client ID: LCSW	Batch ID: R71408a	TestNo: SW8260B		Analysis Date: 6/28/2017				SeqNo: 1182588			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0188	0.0100	0.0200	0	93.8	79.4	131				
1,2-Dichloroethane	0.0210	0.0100	0.0200	0	105	73.6	137				
MEK	0.110	0.0500	0.100	0	110	55.1	163				
Benzene	0.0216	0.0100	0.0200	0	108	73.1	132				
Carbon tetrachloride	0.0214	0.0100	0.0200	0	107	63.7	139				
Chlorobenzene	0.0215	0.0100	0.0200	0	108	72.3	139				
Chloroform	0.0213	0.0100	0.0200	0	107	79.3	129				
Tetrachloroethene	0.0220	0.0100	0.0200	0	110	56.2	187				
Trichloroethene	0.0215	0.0100	0.0200	0	108	64.1	138				
Vinyl chloride	0.0108	0.0100	0.0200	0	54.2	22.1	147				

Sample ID: Icsd 20ppb 1236	SampType: LCSD	TestCode: tc1p-voc-mstr	Units: mg/L	Prep Date:					RunNo: 71408		
Client ID: LCSS02	Batch ID: R71408a	TestNo: SW8260B	Analysis Date: 6/28/2017					SeqNo: 1182591			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0182	0.0100	0.0200	0	91.2	79.4	131	0.0188	2.70	25	
1,2-Dichloroethane	0.0211	0.0100	0.0200	0	106	73.6	137	0.0210	0.665	25	
MEK	0.110	0.0500	0.100	0	110	55.1	163	0.110	0.700	25	
Benzene	0.0210	0.0100	0.0200	0	105	73.1	132	0.0216	2.73	25	
Carbon tetrachloride	0.0198	0.0100	0.0200	0	99.1	63.7	139	0.0214	7.81	25	
Chlorobenzene	0.0207	0.0100	0.0200	0	103	72.3	139	0.0215	4.13	25	
Chloroform	0.0210	0.0100	0.0200	0	105	79.3	129	0.0213	1.70	25	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

Original



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QC SUMMARY REPORT

WO#: 17060760

03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

BatchID: R71408a

Sample ID: lcsl 20ppb 1236	SampType: LCSD	TestCode: tc1p-voc-mstr	Units: mg/L	Prep Date:	RunNo: 71408						
Client ID: LCSS02	Batch ID: R71408a	TestNo: SW8260B		Analysis Date: 6/28/2017	SeqNo: 1182591						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene	0.0216	0.0100	0.0200	0	108	56.2	187	0.0220	1.74	25	
Trichloroethene	0.0209	0.0100	0.0200	0	104	64.1	138	0.0215	2.92	25	
Vinyl chloride	0.0107	0.0100	0.0200	0	53.4	22.1	147	0.0108	1.49	25	

Sample ID: mblk	SampType: MBLK	TestCode: tc1p-voc-mstr	Units: mg/L	Prep Date:	RunNo: 71408						
Client ID: PBW	Batch ID: R71408a	TestNo: SW8260B		Analysis Date: 6/28/2017	SeqNo: 1182594						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.100									
1,2-Dichloroethane	ND	0.100									
MEK	ND	2.00									
Benzene	ND	0.100									
Carbon tetrachloride	ND	0.100									
Chlorobenzene	ND	0.100									
Chloroform	ND	0.100									
Tetrachloroethene	ND	0.100									
Trichloroethene	ND	0.100									
Vinyl chloride	ND	0.200									

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	M Manual Integration used to determine
MC Value is below Minimum Compound Limit.	ND Not Detected	O RSD is greater than RSDlimit
P Second column confirmation exceeds	PL Permit Limit	R RPD outside accepted recovery limits

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B/MB+	The analyte was detected in the associated blank.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor
DF	Dilution Factor	RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



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DATES REPORT

WO#: 17060760

03-Jul-17

Client: A&D Environmental
Project: Triangle Chemical Company

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
17060760-001A	TCC-Fillsoil	6/8/2017 12:00:00 PM	Solid	TCLP Herbicides Analysis (SW1311/86/15/2017 6:32:19 PM	6/28/2017 12:45:00 PM	6/29/2017 8:52:00 PM	
				TCLP Mercury Analysis (SW1311/7476/15/2017 6:32:19 PM	6/16/2017 10:30:00 AM	6/16/2017 4:15:00 PM	
				TCLP Metals Analysis (SW1311/6010/6/15/2017 6:32:19 PM	6/16/2017 10:38:47 AM	6/16/2017 2:28:51 PM	
				TCLP Pesticides Analysis (SW1311/806/15/2017 6:32:19 PM	6/28/2017 8:00:00 AM	6/28/2017 9:01:00 PM	
				TCLP Semi-Volatiles Analysis (SW1311/8270)	6/15/2017 6:32:19 PM	6/28/2017 7:00:00 AM	7/1/2017 12:51:00 AM
				TCLP Volatiles Analysis (SW1311/826			6/28/2017 4:17:00 PM

Original



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Tel: 330.253.8211 Fax: 330.253.4489

Analysis Request/Chain of Custody

For Summit Environmental Technologies, Inc. use only

Page 1 of 1 SET No. 127060

Company Name (Please Print) ADD Environmental Services		Project Name Triangle Chemical Company	
Company Address 100 Waste Research Blvd Macon, GA 31206		Project Address 4040 Lutz Ln Ave Macon, GA 31217	
Client Phone No. 478-788-8899		Report to + a Collins@adenviro.com	
Client Fax No. 478-788-8899		PO#	
Client Email mkurz@adenviro.com		Quote No. Danny	
Contact Person Marc Kurz / Andrew Collins		17-0217	
Sampled by Marc Kurz		Check if Ohio VAP samples <input checked="" type="checkbox"/>	

Relinquished by:	Date	Time	Received by:	Date	Time	Remarks
01 TCC - Fill Soil	6/8/12	12:00pm	X	S	X	1 X
17060760-001SL						

Summit Environmental Technologies, Inc. Cooler Receipt Form

Client: AD Initials of person inspecting cooler and samples: SL
 Order Number: 17060760
 Date Received: 6-14-17 Time Received: 1130 Date cooler(s) opened and samples inspected: 6-14-17
 Number of Coolers/Boxes: 1 N/A
 Shipper: FED EX UPS DHL Airborne US Postal Walk-in Pickup Other:
 Packaging: Peanuts Bubble Wrap Paper Foam None Other:
 Tape on cooler/box: Y N N/A
 Custody Seals intact Y N N/A
 C-O-C in plastic Y N N/A
 Ice Y Blue ice present / absent / melted N/A
 Sample Temperature IR Gun #16020459 CF 0.0 °C 5.6 °C N/A
 Radiological Testing Instrument serial #35127 Y N N/A
 (see page 2 for scan results)
 **Use 1 sheet per sample for Radiological Testing. If sample is HOT, the Radiological Safety Officer must be notified immediately.
 C-O-C filled out properly Y N N/A
 Samples in separate bags Y N N/A
 Sample containers intact* Y N N/A
 *If no, list broken sample(s): _____
 Sample label(s) complete (ID, date, etc.) Y N N/A
 Label(s) agree with C-O-C Y N N/A
 Correct containers used Y N N/A
 Sufficient sample received Y N N/A
 Samples received within holding time Y N N/A
 Bubbles absent from 40 mL vials** Y N N/A
 ** Samples with bubbles <6mm are acceptable. Indicate bubble size if >6mm. _____
 Was client contacted about samples Y N
 Will client send new samples Y N
 Client contact: _____
 Date/Time: _____
 Logged in by: _____
 Comments: _____