



SAILORS ENGINEERING ASSOCIATES, INC.

1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

**PHASE II ENVIRONMENTAL SITE ASSESSMENT
4036 CHARLES HARDY PARKWAY
DALLAS, PAULDING COUNTY, GEORGIA**

SEA JOB #222-016



SAILORS ENGINEERING ASSOCIATES, INC.

1675 SPECTRUM DRIVE • LAWRENCEVILLE, GEORGIA 30043 • TEL (770) 962-5922 • FAX 962-7964

October 12, 2023

Mr. Hunter Holliday
Highlands Residential, LLC
2100 Powers Ferry, Suite 350
Atlanta, GA 30339

RE: Phase II Investigation
Charles Hardy Parkway
4036 Charles Hardy Parkway
Dallas, Georgia
SEA Job #222-016

Dear Mr. Holliday:

Sailors Engineering Associates, Inc. (SEA) has conducted a Phase II Investigation for the subject property referenced above and is pleased to provide this report with our findings and conclusions.

GENERAL

Our Phase I Environmental Site Assessment (ESA) dated March 14, 2022 identified the operations of an off-site UST facility and two (2) off-site dry-cleaning facilities as Recognized Environmental Conditions (RECs) with regard to the subject property. SEA also noted several discarded 55-gallon drums located on the subject property near the garage associated with one of the residential homes. To determine if the identified RECs have adversely impacted the subject property, SEA recommended a Phase II investigation including the collection and analysis of soil and groundwater samples.

On September 29, 2023, SEA mobilized to the subject property to conduct a Phase II Investigation. SEA advanced three (3) direct push borings at locations deemed most likely to detect impacts from the above-mentioned RECs. The three borings were advanced to between 17 to 25 feet below the ground surface (bgs) and into the groundwater table where a 1-inch PVC temporary well casing with 10 feet of screened pipe was installed. Following well development, a groundwater sample was collected from each of the temporary monitoring wells and submitted for laboratory analysis of volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs). Two soil samples were also collected from SDP-2 near the discarded drums at 5 and 10 feet bgs. The soil samples were analyzed for VOCs, SVOCs and RCRA metals.

The laboratory results for the groundwater reported one VOC compound, chloroform (0.027 milligrams per liter or mg/L) in SDP-3 and one SVOC compound, caprolactam (0.021 mg/L) in

the SDP-2 sample. Chloroform is a byproduct of the chlorination of municipal drinking water. Based on the results of our Phase I investigation, SEA does not suspect the historic use of chloroform on the subject property. SEA believes the presence of chloroform in the groundwater is most likely the result of a municipal water leak and/or sewage spill in the area. The concentration of chloroform is well below the Type 1 Risk Reduction Standard established under the Georgia Hazardous Site Response Program.

Caprolactam is used in the production of nylon products, such as nylon string. During the sampling of SDP-2, SEA utilized nylon string attached to a disposable $\frac{3}{4}$ inch bailor to develop and sample groundwater from SDP-2. SEA suspects the presence of caprolactam in the groundwater sample is a direct result of the use of nylon string during sampling and is not the result of a release. Caprolactam is not regulated under Georgia's Hazardous Sites Response Program. No other VOCs or SVOCs were reported above method detection limits in the groundwater.

No VOCs or SVOCs were reported in the soil above method detection limits. The two soil samples analyzed for RCRA Metals contained concentrations of barium, chromium and lead above method detection limits. The concentrations of metals detected are consistent with naturally occurring background levels in the soil according to USGS Mineral Resources on-line spatial data and well below the Hazardous Sites Response Program Notification Concentration.

A figure depicting the sample location and a copy of the laboratory data report are attached to this report.

CONCLUSION

Based on the results of our Phase II Investigation, the detection of chloroform and caprolactam in the groundwater is not suspected to be from a release due to the use and/or presence of these chemicals on the subject property. The concentration of chloroform is well below the Type 1 Risk Reduction Standard established under the Georgia Hazardous Site Response Program. Caprolactam is not regulated by Georgia's Hazardous Site Response Program. Therefore, the presence of chloroform and caprolactam is not identified as a REC with regard to the subject property. No other VOCs or SVOCs were identified in the soil or groundwater above detection limits. The concentrations of metals detected in the soil are consistent with naturally occurring background levels in the soil according to USGS Mineral Resources on-line spatial data and well below the Hazardous Sites Response Program Notification Concentration. No impacts from the RECs were identified to have adversely impacted the subject property. No further investigation is warranted.

Phase II Investigation
Charles Hardy Parkway
4036 Charles Hardy Parkway
Dallas, Georgia
SEA Job #222-016

If you have any questions regarding our methods, findings, or conclusions, please contact us at your convenience.



Respectfully submitted,

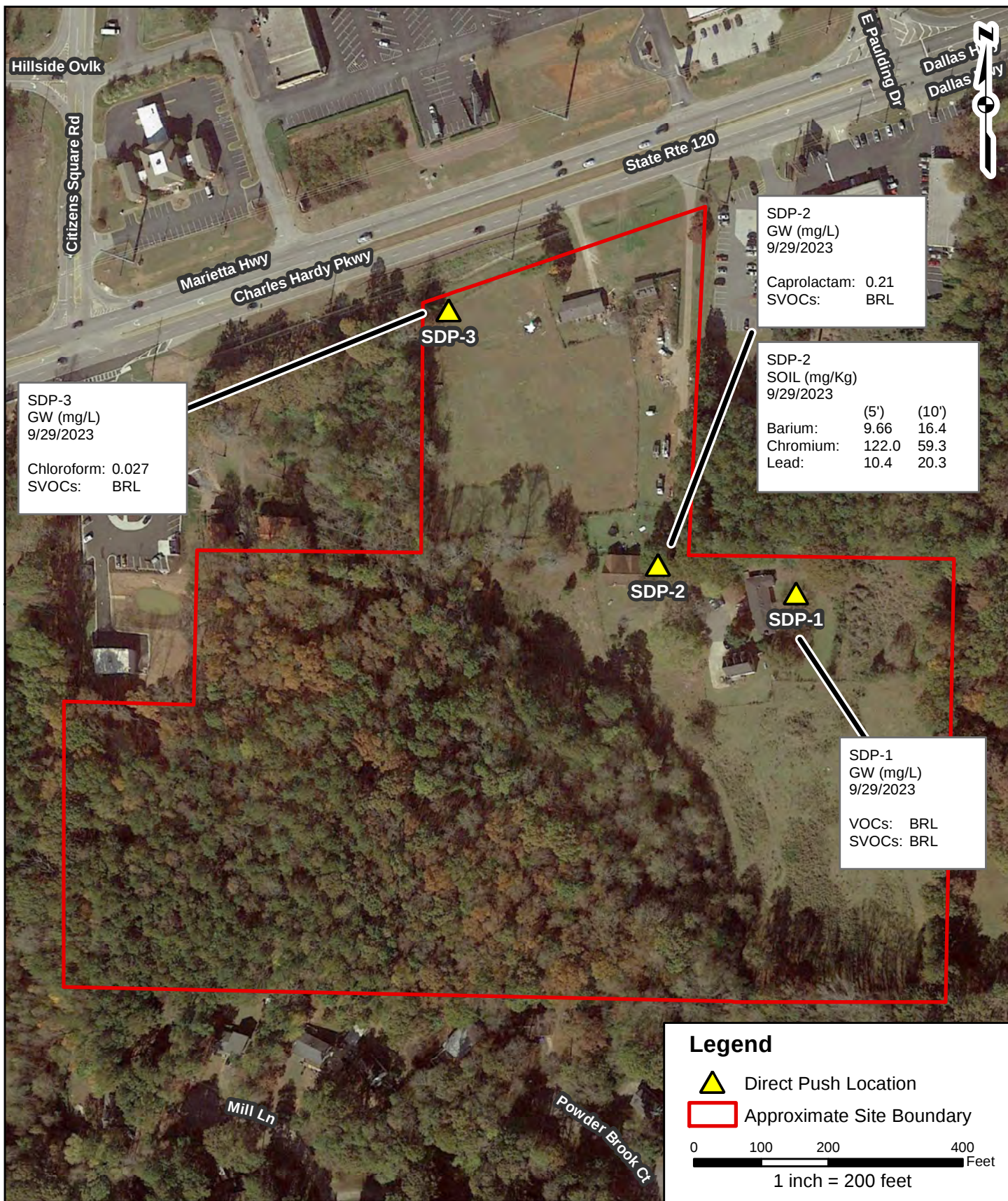
SAILORS ENGINEERING ASSOCIATES, INC.

A handwritten signature in cursive script, appearing to read "Steven Lazzari".

Steven Lazzari
Senior Environmental Scientist

A handwritten signature in cursive script, appearing to read "Michael J. Haller".

Michael J. Haller, P.G.



Imagery Sources: Google/Maxar 2018

SEA
**SAILORS
ENGINEERING
ASSOCIATES, INC.**
ENVIRONMENTAL/GEOTECHNICAL
1675 SPECTRUM DRIVE
LAWRENCEVILLE, GEORGIA 30043
(770) 962-5922 FAX 962-7964

SAMPLE LOCATION PLAN

CHARLES HARDY PKWY PARCELS
4036 Charles Hardy Parkway
Dallas, Paulding/Cobb, GA
SEA Job No. 222-016



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 06, 2023

Michael Haller
Sailors Engineering Associates

1675 Spectrum Drive
Lawrenceville GA 30043

RE: Charles Hardy Pkwy

Dear Michael Haller:

Order No: 2309W06

Analytical Environmental Services, Inc. received 6 samples on September 29, 2023 1:28 pm
for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/23-06/30/24.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective through 06/30/24 and Total Coliforms/ E. coli, effective 04/25/23-04/24/24.

-AIHA LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/25.

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

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

Sincerely,

Corene Dephillips
Project Manager



Analytical Environmental Services, Inc.
3080 Presidential Drive, Atlanta, GA 30340 Phone: (770) 457-8177

Work Order: 2309WOW
Page of

CHAIN OF CUSTODY

COMPANY: Sailors Eng.		ADDRESS: 1675 Spectrum Dr. Lawrenceville, GA		ANALYSIS REQUESTED								Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers			
PHONE: (770) 952-5922		EMAIL:										REMARKS					
SAMPLED BY: Gaz		SIGNATURE:															
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)										
		DATE	TIME														
1	SDP-1	9-29-23	8:16	X		GW	V	V								4	
2	SDP-2	9-29-23	8:55	X		GW	V	V								4	
3	SDP-3	9-29-23	9:38	X		SW	V	V								4	
4	SDP-2 5'	9-29-23	8:08	X		SS	V	V	V							5	
5	SDP-2 10'	9-29-23	8:12	X		SS	V	V	V							5	
6	Trip Blank																
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION								RECEIPT	
1. Shuk		9-29-23/13:28		1. J. Bell		9/29/23 13:28		PROJECT NAME: Charles Hardy Pkwy								Total # of Containers 22	
2.				2.				PROJECT #: 222-OK								Turnaround Time (TAT) Request in Business Days	
3.				3.				SITE ADDRESS: 4035 Charles Hardy Pkwy								☒ Standard ☐ 4-Day Rush*	
								SEND REPORT TO:								☐ 3-Day Rush* ☐ 2-Day Rush*	
								INVOICE TO (IF DIFFERENT FROM ABOVE):								☐ Next Day Rush* ☐ Other _____	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD												☐ Same-Day Rush*(auth req.) *Surcharges apply for Rush TAT	
				OUT: / / VIA:												REGULATORY PROGRAM (if any):	
				IN: Client FedEx UPS US mail courier												DATA PACKAGE: I O II O III O IV O	
				other: _____													

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST=Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice NaOH = SH O = Other (specify) NA = None

3.18.21 COC

White Copy - Page 2 of 45
Original Yellow Copy - Client

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-001

Client Sample ID: SDP-1
Collection Date: 9/29/2023 8:16:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					(SW3510C)			
1,1'-Biphenyl	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	363803	1	10/03/2023 01:18	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2,4-Dichlorophenol	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2,4-Dimethylphenol	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2,4-Dinitrophenol	BRL	25		ug/L	363803	1	10/03/2023 01:18	YH
2,4-Dinitrotoluene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2,6-Dinitrotoluene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2-Chloronaphthalene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2-Chlorophenol	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2-Methylnaphthalene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2-Methylphenol	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
2-Nitroaniline	BRL	25		ug/L	363803	1	10/03/2023 01:18	YH
2-Nitrophenol	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
3-Nitroaniline	BRL	25		ug/L	363803	1	10/03/2023 01:18	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	363803	1	10/03/2023 01:18	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
4-Chloroaniline	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
4-Methylphenol	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
4-Nitroaniline	BRL	25		ug/L	363803	1	10/03/2023 01:18	YH
4-Nitrophenol	BRL	25		ug/L	363803	1	10/03/2023 01:18	YH
Acenaphthene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Acenaphthylene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Acetophenone	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Anthracene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Atrazine	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Benz(a)anthracene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Benzaldehyde	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Benzo(a)pyrene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Benzo(b)fluoranthene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Benzo(k)fluoranthene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Butyl benzyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Caprolactam	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Carbazole	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Chrysene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Di-n-butyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Di-n-octyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-001

Client Sample ID: SDP-1
Collection Date: 9/29/2023 8:16:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					(SW3510C)			
Dibenz(a,h)anthracene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Dibenzofuran	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Diethyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Dimethyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Fluoranthene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Fluorene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Hexachlorobenzene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Hexachlorobutadiene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Hexachloroethane	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Isophorone	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Naphthalene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Nitrobenzene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Pentachlorophenol	BRL	25		ug/L	363803	1	10/03/2023 01:18	YH
Phenanthrene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Phenol	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Pyrene	BRL	10		ug/L	363803	1	10/03/2023 01:18	YH
Surr: 2,4,6-Tribromophenol	81	48-133		%REC	363803	1	10/03/2023 01:18	YH
Surr: 2-Fluorobiphenyl	74.4	46.7-118		%REC	363803	1	10/03/2023 01:18	YH
Surr: 2-Fluorophenol	46.9	28.5-120		%REC	363803	1	10/03/2023 01:18	YH
Surr: 4-Terphenyl-d14	78	45.2-127		%REC	363803	1	10/03/2023 01:18	YH
Surr: Nitrobenzene-d5	70.8	40.9-119		%REC	363803	1	10/03/2023 01:18	YH
Surr: Phenol-d5	33.4	20-63		%REC	363803	1	10/03/2023 01:18	YH
TCL VOLATILE ORGANICS SW8260D					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,1,2-Trichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,1-Dichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,1-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,2-Dibromoethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,2-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,2-Dichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,2-Dichloropropane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,3-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
1,4-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
2-Butanone	BRL	50		ug/L	363928	1	10/02/2023 10:44	AV
2-Hexanone	BRL	10		ug/L	363928	1	10/02/2023 10:44	AV
4-Methyl-2-pentanone	BRL	10		ug/L	363928	1	10/02/2023 10:44	AV
Acetone	BRL	50		ug/L	363928	1	10/02/2023 10:44	AV

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-001

Client Sample ID: SDP-1
Collection Date: 9/29/2023 8:16:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D				(SW5030B)				
Benzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Bromodichloromethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Bromoform	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Bromomethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Carbon disulfide	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Carbon tetrachloride	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Chlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Chloroethane	BRL	10		ug/L	363928	1	10/02/2023 10:44	AV
Chloroform	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Chloromethane	BRL	10		ug/L	363928	1	10/02/2023 10:44	AV
cis-1,2-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
cis-1,3-Dichloropropene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Cyclohexane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Dibromochloromethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Dichlorodifluoromethane	BRL	10		ug/L	363928	1	10/02/2023 10:44	AV
Ethylbenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Freon-113	BRL	10		ug/L	363928	1	10/02/2023 10:44	AV
Isopropylbenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
m,p-Xylene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Methyl acetate	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Methyl tert-butyl ether	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Methylcyclohexane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Methylene chloride	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
o-Xylene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Styrene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Tetrachloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Toluene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
trans-1,2-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
trans-1,3-Dichloropropene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Trichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Trichlorofluoromethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Vinyl chloride	BRL	2.0		ug/L	363928	1	10/02/2023 10:44	AV
1,2-Dichloroethene, Total	BRL	10		ug/L	363928	1	10/02/2023 10:44	AV
Xylenes, Total	BRL	5.0		ug/L	363928	1	10/02/2023 10:44	AV
Surr: 4-Bromofluorobenzene	98.8	70-126		%REC	363928	1	10/02/2023 10:44	AV
Surr: Dibromofluoromethane	104	77-121		%REC	363928	1	10/02/2023 10:44	AV
Surr: Toluene-d8	100	78.6-119		%REC	363928	1	10/02/2023 10:44	AV

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-002

Client Sample ID: SDP-2
Collection Date: 9/29/2023 8:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					(SW3510C)			
1,1'-Biphenyl	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	363803	1	10/03/2023 14:37	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2,4-Dichlorophenol	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2,4-Dimethylphenol	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2,4-Dinitrophenol	BRL	25		ug/L	363803	1	10/03/2023 14:37	YH
2,4-Dinitrotoluene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2,6-Dinitrotoluene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2-Chloronaphthalene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2-Chlorophenol	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2-Methylnaphthalene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2-Methylphenol	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
2-Nitroaniline	BRL	25		ug/L	363803	1	10/03/2023 14:37	YH
2-Nitrophenol	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
3-Nitroaniline	BRL	25		ug/L	363803	1	10/03/2023 14:37	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	363803	1	10/03/2023 14:37	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
4-Chloroaniline	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
4-Methylphenol	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
4-Nitroaniline	BRL	25		ug/L	363803	1	10/03/2023 14:37	YH
4-Nitrophenol	BRL	25		ug/L	363803	1	10/03/2023 14:37	YH
Acenaphthene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Acenaphthylene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Acetophenone	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Anthracene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Atrazine	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Benz(a)anthracene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Benzaldehyde	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Benzo(a)pyrene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Benzo(b)fluoranthene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Benzo(k)fluoranthene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Butyl benzyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Caprolactam	21	10		ug/L	363803	1	10/03/2023 14:37	YH
Carbazole	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Chrysene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Di-n-butyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Di-n-octyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-002

Client Sample ID: SDP-2
Collection Date: 9/29/2023 8:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					(SW3510C)			
Dibenz(a,h)anthracene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Dibenzofuran	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Diethyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Dimethyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Fluoranthene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Fluorene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Hexachlorobenzene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Hexachlorobutadiene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Hexachloroethane	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Isophorone	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Naphthalene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Nitrobenzene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Pentachlorophenol	BRL	25		ug/L	363803	1	10/03/2023 14:37	YH
Phenanthrene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Phenol	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Pyrene	BRL	10		ug/L	363803	1	10/03/2023 14:37	YH
Surr: 2,4,6-Tribromophenol	77.6	48-133		%REC	363803	1	10/03/2023 14:37	YH
Surr: 2-Fluorobiphenyl	81.1	46.7-118		%REC	363803	1	10/03/2023 14:37	YH
Surr: 2-Fluorophenol	48.2	28.5-120		%REC	363803	1	10/03/2023 14:37	YH
Surr: 4-Terphenyl-d14	82.1	45.2-127		%REC	363803	1	10/03/2023 14:37	YH
Surr: Nitrobenzene-d5	74.3	40.9-119		%REC	363803	1	10/03/2023 14:37	YH
Surr: Phenol-d5	37.7	20-63		%REC	363803	1	10/03/2023 14:37	YH
TCL VOLATILE ORGANICS SW8260D					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,1,2-Trichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,1-Dichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,1-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,2-Dibromoethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,2-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,2-Dichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,2-Dichloropropane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,3-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
1,4-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
2-Butanone	BRL	50		ug/L	363928	1	10/02/2023 11:09	AV
2-Hexanone	BRL	10		ug/L	363928	1	10/02/2023 11:09	AV
4-Methyl-2-pentanone	BRL	10		ug/L	363928	1	10/02/2023 11:09	AV
Acetone	BRL	50		ug/L	363928	1	10/02/2023 11:09	AV

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-002

Client Sample ID: SDP-2
Collection Date: 9/29/2023 8:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D				(SW5030B)				
Benzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Bromodichloromethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Bromoform	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Bromomethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Carbon disulfide	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Carbon tetrachloride	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Chlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Chloroethane	BRL	10		ug/L	363928	1	10/02/2023 11:09	AV
Chloroform	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Chloromethane	BRL	10		ug/L	363928	1	10/02/2023 11:09	AV
cis-1,2-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
cis-1,3-Dichloropropene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Cyclohexane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Dibromochloromethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Dichlorodifluoromethane	BRL	10		ug/L	363928	1	10/02/2023 11:09	AV
Ethylbenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Freon-113	BRL	10		ug/L	363928	1	10/02/2023 11:09	AV
Isopropylbenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
m,p-Xylene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Methyl acetate	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Methyl tert-butyl ether	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Methylcyclohexane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Methylene chloride	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
o-Xylene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Styrene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Tetrachloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Toluene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
trans-1,2-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
trans-1,3-Dichloropropene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Trichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Trichlorofluoromethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Vinyl chloride	BRL	2.0		ug/L	363928	1	10/02/2023 11:09	AV
1,2-Dichloroethene, Total	BRL	10		ug/L	363928	1	10/02/2023 11:09	AV
Xylenes, Total	BRL	5.0		ug/L	363928	1	10/02/2023 11:09	AV
Surr: 4-Bromofluorobenzene	97.2	70-126		%REC	363928	1	10/02/2023 11:09	AV
Surr: Dibromofluoromethane	103	77-121		%REC	363928	1	10/02/2023 11:09	AV
Surr: Toluene-d8	103	78.6-119		%REC	363928	1	10/02/2023 11:09	AV

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- E Estimated (value above quantitation range)
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- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-003

Client Sample ID: SDP-3
Collection Date: 9/29/2023 9:38:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					(SW3510C)			
1,1'-Biphenyl	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	363803	1	10/03/2023 15:05	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2,4-Dichlorophenol	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2,4-Dimethylphenol	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2,4-Dinitrophenol	BRL	25		ug/L	363803	1	10/03/2023 15:05	YH
2,4-Dinitrotoluene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2,6-Dinitrotoluene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2-Chloronaphthalene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2-Chlorophenol	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2-Methylnaphthalene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2-Methylphenol	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
2-Nitroaniline	BRL	25		ug/L	363803	1	10/03/2023 15:05	YH
2-Nitrophenol	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
3-Nitroaniline	BRL	25		ug/L	363803	1	10/03/2023 15:05	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	363803	1	10/03/2023 15:05	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
4-Chloroaniline	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
4-Methylphenol	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
4-Nitroaniline	BRL	25		ug/L	363803	1	10/03/2023 15:05	YH
4-Nitrophenol	BRL	25		ug/L	363803	1	10/03/2023 15:05	YH
Acenaphthene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Acenaphthylene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Acetophenone	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Anthracene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Atrazine	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Benz(a)anthracene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Benzaldehyde	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Benzo(a)pyrene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Benzo(b)fluoranthene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Benzo(k)fluoranthene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Butyl benzyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Caprolactam	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Carbazole	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Chrysene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Di-n-butyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Di-n-octyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-003

Client Sample ID: SDP-3
Collection Date: 9/29/2023 9:38:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E					(SW3510C)			
Dibenz(a,h)anthracene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Dibenzofuran	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Diethyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Dimethyl phthalate	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Fluoranthene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Fluorene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Hexachlorobenzene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Hexachlorobutadiene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Hexachloroethane	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Isophorone	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Naphthalene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Nitrobenzene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Pentachlorophenol	BRL	25		ug/L	363803	1	10/03/2023 15:05	YH
Phenanthrene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Phenol	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Pyrene	BRL	10		ug/L	363803	1	10/03/2023 15:05	YH
Surr: 2,4,6-Tribromophenol	65.2	48-133		%REC	363803	1	10/03/2023 15:05	YH
Surr: 2-Fluorobiphenyl	79	46.7-118		%REC	363803	1	10/03/2023 15:05	YH
Surr: 2-Fluorophenol	44.4	28.5-120		%REC	363803	1	10/03/2023 15:05	YH
Surr: 4-Terphenyl-d14	83.1	45.2-127		%REC	363803	1	10/03/2023 15:05	YH
Surr: Nitrobenzene-d5	76.1	40.9-119		%REC	363803	1	10/03/2023 15:05	YH
Surr: Phenol-d5	36.5	20-63		%REC	363803	1	10/03/2023 15:05	YH
TCL VOLATILE ORGANICS SW8260D					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,1,2-Trichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,1-Dichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,1-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,2-Dibromoethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,2-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,2-Dichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,2-Dichloropropane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,3-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
1,4-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
2-Butanone	BRL	50		ug/L	363928	1	10/02/2023 11:34	AV
2-Hexanone	BRL	10		ug/L	363928	1	10/02/2023 11:34	AV
4-Methyl-2-pentanone	BRL	10		ug/L	363928	1	10/02/2023 11:34	AV
Acetone	BRL	50		ug/L	363928	1	10/02/2023 11:34	AV

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-003

Client Sample ID: SDP-3
Collection Date: 9/29/2023 9:38:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D				(SW5030B)				
Benzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Bromodichloromethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Bromoform	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Bromomethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Carbon disulfide	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Carbon tetrachloride	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Chlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Chloroethane	BRL	10		ug/L	363928	1	10/02/2023 11:34	AV
Chloroform	27	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Chloromethane	BRL	10		ug/L	363928	1	10/02/2023 11:34	AV
cis-1,2-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
cis-1,3-Dichloropropene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Cyclohexane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Dibromochloromethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Dichlorodifluoromethane	BRL	10		ug/L	363928	1	10/02/2023 11:34	AV
Ethylbenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Freon-113	BRL	10		ug/L	363928	1	10/02/2023 11:34	AV
Isopropylbenzene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
m,p-Xylene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Methyl acetate	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Methyl tert-butyl ether	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Methylcyclohexane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Methylene chloride	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
o-Xylene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Styrene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Tetrachloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Toluene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
trans-1,2-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
trans-1,3-Dichloropropene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Trichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Trichlorofluoromethane	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Vinyl chloride	BRL	2.0		ug/L	363928	1	10/02/2023 11:34	AV
1,2-Dichloroethene, Total	BRL	10		ug/L	363928	1	10/02/2023 11:34	AV
Xylenes, Total	BRL	5.0		ug/L	363928	1	10/02/2023 11:34	AV
Surr: 4-Bromofluorobenzene	97.9	70-126		%REC	363928	1	10/02/2023 11:34	AV
Surr: Dibromofluoromethane	104	77-121		%REC	363928	1	10/02/2023 11:34	AV
Surr: Toluene-d8	101	78.6-119		%REC	363928	1	10/02/2023 11:34	AV

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-004

Client Sample ID: SDP-2 5'
Collection Date: 9/29/2023 8:08:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Mercury by SW7473		(SW7473)						
Mercury	BRL	0.126		mg/Kg-dry	363845	1	10/02/2023 14:04	GR
TCL-SEMIVOLATILE ORGANICS SW8270E		(SW3550C)						
1,1'-Biphenyl	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2,4,5-Trichlorophenol	BRL	2.1		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2,4,6-Trichlorophenol	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2,4-Dichlorophenol	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2,4-Dimethylphenol	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2,4-Dinitrophenol	BRL	2.1		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2,4-Dinitrotoluene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2,6-Dinitrotoluene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2-Chloronaphthalene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2-Chlorophenol	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2-Methylnaphthalene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2-Methylphenol	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2-Nitroaniline	BRL	2.1		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
2-Nitrophenol	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
3,3'-Dichlorobenzidine	BRL	0.84		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
3-Nitroaniline	BRL	2.1		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
4,6-Dinitro-2-methylphenol	BRL	2.1		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
4-Bromophenyl phenyl ether	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
4-Chloro-3-methylphenol	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
4-Chloroaniline	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
4-Chlorophenyl phenyl ether	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
4-Methylphenol	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
4-Nitroaniline	BRL	2.1		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
4-Nitrophenol	BRL	2.1		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Acenaphthene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Acenaphthylene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Acetophenone	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Anthracene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Atrazine	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Benz(a)anthracene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Benzaldehyde	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Benzo(a)pyrene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Benzo(b)fluoranthene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Benzo(g,h,i)perylene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Benzo(k)fluoranthene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Bis(2-chloroethoxy)methane	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Bis(2-chloroethyl)ether	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Bis(2-chloroisopropyl)ether	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Bis(2-ethylhexyl)phthalate	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Butyl benzyl phthalate	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Caprolactam	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Carbazole	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH

Qualifiers:

- * Value exceeds maximum contaminant level
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-004

Client Sample ID: SDP-2 5'
Collection Date: 9/29/2023 8:08:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E		(SW3550C)						
Chrysene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Di-n-butyl phthalate	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Di-n-octyl phthalate	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Dibenz(a,h)anthracene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Dibenzofuran	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Diethyl phthalate	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Dimethyl phthalate	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Fluoranthene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Fluorene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Hexachlorobenzene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Hexachlorobutadiene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Hexachlorocyclopentadiene	BRL	0.83		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Hexachloroethane	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Indeno(1,2,3-cd)pyrene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Isophorone	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
N-Nitrosodi-n-propylamine	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
N-Nitrosodiphenylamine	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Naphthalene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Nitrobenzene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Pentachlorophenol	BRL	2.1		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Phenanthrene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Phenol	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Pyrene	BRL	0.41		mg/Kg-dry	363917	1	10/04/2023 20:56	YH
Surr: 2,4,6-Tribromophenol	60.4	45.5-127		%REC	363917	1	10/04/2023 20:56	YH
Surr: 2-Fluorobiphenyl	69.4	54.6-120		%REC	363917	1	10/04/2023 20:56	YH
Surr: 2-Fluorophenol	72	44-120		%REC	363917	1	10/04/2023 20:56	YH
Surr: 4-Terphenyl-d14	81.2	54-120		%REC	363917	1	10/04/2023 20:56	YH
Surr: Nitrobenzene-d5	87.7	45-120		%REC	363917	1	10/04/2023 20:56	YH
Surr: Phenol-d5	79.6	46.5-120		%REC	363917	1	10/04/2023 20:56	YH
TCL VOLATILE ORGANICS SW8260D		(SW5035)						
1,1,1-Trichloroethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,1,2,2-Tetrachloroethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,1,2-Trichloroethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,1-Dichloroethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,1-Dichloroethene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,2,4-Trichlorobenzene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,2-Dibromo-3-chloropropane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,2-Dibromoethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,2-Dichlorobenzene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,2-Dichloroethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,2-Dichloropropane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,3-Dichlorobenzene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,4-Dichlorobenzene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
2-Butanone	BRL	0.048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-004

Client Sample ID: SDP-2 5'
Collection Date: 9/29/2023 8:08:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D			(SW5035)					
2-Hexanone	BRL	0.0097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
4-Methyl-2-pentanone	BRL	0.0097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Acetone	BRL	0.097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Benzene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Bromodichloromethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Bromoform	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Bromomethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Carbon disulfide	BRL	0.0097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Carbon tetrachloride	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Chlorobenzene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Chloroethane	BRL	0.0097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Chloroform	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Chloromethane	BRL	0.0097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
cis-1,2-Dichloroethene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
cis-1,3-Dichloropropene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Cyclohexane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Dibromochloromethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Dichlorodifluoromethane	BRL	0.0097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Ethylbenzene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Freon-113	BRL	0.0097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Isopropylbenzene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
m,p-Xylene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Methyl acetate	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Methyl tert-butyl ether	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Methylcyclohexane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Methylene chloride	BRL	0.019		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
o-Xylene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Styrene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Tetrachloroethene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Toluene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
trans-1,2-Dichloroethene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
trans-1,3-Dichloropropene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Trichloroethene	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Trichlorofluoromethane	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Vinyl chloride	BRL	0.0097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
1,2-Dichloroethene, Total	BRL	0.0097		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Xylenes, Total	BRL	0.0048		mg/Kg-dry	363943	1	10/02/2023 19:23	RC
Surr: 4-Bromofluorobenzene	90.5	65.7-125		%REC	363943	1	10/02/2023 19:23	RC
Surr: Dibromofluoromethane	103	74.3-126		%REC	363943	1	10/02/2023 19:23	RC
Surr: Toluene-d8	104	72.7-124		%REC	363943	1	10/02/2023 19:23	RC
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	2.25		mg/Kg-dry	363946	1	10/04/2023 13:31	ST
Barium	16.4	4.51		mg/Kg-dry	363946	1	10/04/2023 13:31	ST
Cadmium	BRL	2.25		mg/Kg-dry	363946	1	10/04/2023 13:31	ST

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-004

Client Sample ID: SDP-2 5'
Collection Date: 9/29/2023 8:08:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL	SW6010D				(SW3050B)			
Chromium	59.3	2.25		mg/Kg-dry	363946	1	10/04/2023 13:31	ST
Lead	6.63	4.51		mg/Kg-dry	363946	1	10/04/2023 13:31	ST
Selenium	BRL	3.16		mg/Kg-dry	363946	1	10/04/2023 13:31	ST
Silver	BRL	2.25		mg/Kg-dry	363946	1	10/04/2023 13:31	ST
PERCENT MOISTURE	D2216							
Percent Moisture	20.3	0		wt%	R527362	1	10/01/2023 00:00	JW

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-005

Client Sample ID: SDP-2 10'
Collection Date: 9/29/2023 8:12:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Mercury by SW7473		(SW7473)						
Mercury	BRL	0.148		mg/Kg-dry	363845	1	10/02/2023 14:12	GR
TCL-SEMIVOLATILE ORGANICS SW8270E		(SW3550C)						
1,1'-Biphenyl	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2,4,5-Trichlorophenol	BRL	2.5		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2,4,6-Trichlorophenol	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2,4-Dichlorophenol	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2,4-Dimethylphenol	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2,4-Dinitrophenol	BRL	2.5		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2,4-Dinitrotoluene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2,6-Dinitrotoluene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2-Chloronaphthalene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2-Chlorophenol	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2-Methylnaphthalene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2-Methylphenol	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2-Nitroaniline	BRL	2.5		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
2-Nitrophenol	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
3,3'-Dichlorobenzidine	BRL	0.99		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
3-Nitroaniline	BRL	2.5		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
4,6-Dinitro-2-methylphenol	BRL	2.5		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
4-Bromophenyl phenyl ether	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
4-Chloro-3-methylphenol	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
4-Chloroaniline	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
4-Chlorophenyl phenyl ether	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
4-Methylphenol	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
4-Nitroaniline	BRL	2.5		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
4-Nitrophenol	BRL	2.5		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Acenaphthene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Acenaphthylene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Acetophenone	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Anthracene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Atrazine	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Benz(a)anthracene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Benzaldehyde	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Benzo(a)pyrene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Benzo(b)fluoranthene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Benzo(g,h,i)perylene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Benzo(k)fluoranthene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Bis(2-chloroethoxy)methane	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Bis(2-chloroethyl)ether	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Bis(2-chloroisopropyl)ether	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Bis(2-ethylhexyl)phthalate	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Butyl benzyl phthalate	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Caprolactam	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Carbazole	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH

Qualifiers:

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- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-005

Client Sample ID: SDP-2 10'
Collection Date: 9/29/2023 8:12:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270E		(SW3550C)						
Chrysene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Di-n-butyl phthalate	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Di-n-octyl phthalate	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Dibenz(a,h)anthracene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Dibenzofuran	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Diethyl phthalate	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Dimethyl phthalate	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Fluoranthene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Fluorene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Hexachlorobenzene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Hexachlorobutadiene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Hexachlorocyclopentadiene	BRL	0.98		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Hexachloroethane	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Indeno(1,2,3-cd)pyrene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Isophorone	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
N-Nitrosodi-n-propylamine	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
N-Nitrosodiphenylamine	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Naphthalene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Nitrobenzene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Pentachlorophenol	BRL	2.5		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Phenanthrene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Phenol	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Pyrene	BRL	0.49		mg/Kg-dry	363917	1	10/04/2023 21:22	YH
Surr: 2,4,6-Tribromophenol	56.4	45.5-127		%REC	363917	1	10/04/2023 21:22	YH
Surr: 2-Fluorobiphenyl	64.8	54.6-120		%REC	363917	1	10/04/2023 21:22	YH
Surr: 2-Fluorophenol	66	44-120		%REC	363917	1	10/04/2023 21:22	YH
Surr: 4-Terphenyl-d14	78.7	54-120		%REC	363917	1	10/04/2023 21:22	YH
Surr: Nitrobenzene-d5	81.6	45-120		%REC	363917	1	10/04/2023 21:22	YH
Surr: Phenol-d5	71.5	46.5-120		%REC	363917	1	10/04/2023 21:22	YH
TCL VOLATILE ORGANICS SW8260D		(SW5035)						
1,1,1-Trichloroethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,1,2,2-Tetrachloroethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,1,2-Trichloroethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,1-Dichloroethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,1-Dichloroethene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,2,4-Trichlorobenzene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,2-Dibromo-3-chloropropane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,2-Dibromoethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,2-Dichlorobenzene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,2-Dichloroethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,2-Dichloropropane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,3-Dichlorobenzene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,4-Dichlorobenzene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
2-Butanone	BRL	0.046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-005

Client Sample ID: SDP-2 10'
Collection Date: 9/29/2023 8:12:00 AM
Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D			(SW5035)					
2-Hexanone	BRL	0.0092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
4-Methyl-2-pentanone	BRL	0.0092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Acetone	BRL	0.092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Benzene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Bromodichloromethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Bromoform	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Bromomethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Carbon disulfide	BRL	0.0092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Carbon tetrachloride	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Chlorobenzene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Chloroethane	BRL	0.0092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Chloroform	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Chloromethane	BRL	0.0092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
cis-1,2-Dichloroethene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
cis-1,3-Dichloropropene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Cyclohexane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Dibromochloromethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Dichlorodifluoromethane	BRL	0.0092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Ethylbenzene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Freon-113	BRL	0.0092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Isopropylbenzene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
m,p-Xylene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Methyl acetate	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Methyl tert-butyl ether	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Methylcyclohexane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Methylene chloride	BRL	0.018		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
o-Xylene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Styrene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Tetrachloroethene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Toluene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
trans-1,2-Dichloroethene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
trans-1,3-Dichloropropene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Trichloroethene	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Trichlorofluoromethane	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Vinyl chloride	BRL	0.0092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
1,2-Dichloroethene, Total	BRL	0.0092		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Xylenes, Total	BRL	0.0046		mg/Kg-dry	363943	1	10/02/2023 19:48	RC
Surr: 4-Bromofluorobenzene	87.3	65.7-125		%REC	363943	1	10/02/2023 19:48	RC
Surr: Dibromofluoromethane	105	74.3-126		%REC	363943	1	10/02/2023 19:48	RC
Surr: Toluene-d8	104	72.7-124		%REC	363943	1	10/02/2023 19:48	RC
METALS, TOTAL SW6010D			(SW3050B)					
Arsenic	BRL	2.54		mg/Kg-dry	363946	1	10/04/2023 13:34	ST
Barium	9.66	5.07		mg/Kg-dry	363946	1	10/04/2023 13:34	ST
Cadmium	BRL	2.03		mg/Kg-dry	363946	1	10/04/2023 13:34	ST

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client:	Sailors Engineering Associates	Client Sample ID:	SDP-2 10'
Project Name:	Charles Hardy Pkwy	Collection Date:	9/29/2023 8:12:00 AM
Lab ID:	2309W06-005	Matrix:	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL	SW6010D				(SW3050B)			
Chromium	122	2.54		mg/Kg-dry	363946	1	10/04/2023 13:34	ST
Lead	10.4	5.07		mg/Kg-dry	363946	1	10/04/2023 13:34	ST
Selenium	BRL	3.04		mg/Kg-dry	363946	1	10/04/2023 13:34	ST
Silver	BRL	2.03		mg/Kg-dry	363946	1	10/04/2023 13:34	ST
PERCENT MOISTURE	D2216							
Percent Moisture	32.6	0		wt%	R527362	1	10/01/2023 00:00	JW

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-006

Client Sample ID: Trip Blank
Collection Date: 9/29/2023
Matrix: Trip Blank

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,1,2-Trichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,1-Dichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,1-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,2-Dibromoethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,2-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,2-Dichloroethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,2-Dichloropropane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,3-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
1,4-Dichlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
2-Butanone	BRL	50		ug/L	363928	1	10/02/2023 10:19	AV
2-Hexanone	BRL	10		ug/L	363928	1	10/02/2023 10:19	AV
4-Methyl-2-pentanone	BRL	10		ug/L	363928	1	10/02/2023 10:19	AV
Acetone	BRL	50		ug/L	363928	1	10/02/2023 10:19	AV
Benzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Bromodichloromethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Bromoform	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Bromomethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Carbon disulfide	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Carbon tetrachloride	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Chlorobenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Chloroethane	BRL	10		ug/L	363928	1	10/02/2023 10:19	AV
Chloroform	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Chloromethane	BRL	10		ug/L	363928	1	10/02/2023 10:19	AV
cis-1,2-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
cis-1,3-Dichloropropene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Cyclohexane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Dibromochloromethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Dichlorodifluoromethane	BRL	10		ug/L	363928	1	10/02/2023 10:19	AV
Ethylbenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Freon-113	BRL	10		ug/L	363928	1	10/02/2023 10:19	AV
Isopropylbenzene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
m,p-Xylene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Methyl acetate	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Methyl tert-butyl ether	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Methylcyclohexane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Methylene chloride	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
o-Xylene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Styrene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Tetrachloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Toluene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
trans-1,2-Dichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Lab ID: 2309W06-006

Client Sample ID: Trip Blank
Collection Date: 9/29/2023
Matrix: Trip Blank

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260D				(SW5030B)				
trans-1,3-Dichloropropene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Trichloroethene	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Trichlorofluoromethane	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Vinyl chloride	BRL	2.0		ug/L	363928	1	10/02/2023 10:19	AV
1,2-Dichloroethene, Total	BRL	10		ug/L	363928	1	10/02/2023 10:19	AV
Xylenes, Total	BRL	5.0		ug/L	363928	1	10/02/2023 10:19	AV
Surr: 4-Bromofluorobenzene	98.4	70-126		%REC	363928	1	10/02/2023 10:19	AV
Surr: Dibromofluoromethane	104	77-121		%REC	363928	1	10/02/2023 10:19	AV
Surr: Toluene-d8	102	78.6-119		%REC	363928	1	10/02/2023 10:19	AV

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Sailors Engineering Associates**

AES Work Order Number: **2309W06**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☒ Courier ☐ Other ☐

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	☒	☐	☐	damaged ☐ leaking ☐ other ☐	
4. Custody seals present on shipping container?	☒	☐	☐		
5. Custody seals intact on shipping container?	☒	☐	☐		
6. Cooler temperature(s) within limits of 0-6°C? [See item 12 for temperature recordings.]	☒	☐	☐		
7. Chain of Custody (COC) present?	☒	☐	☐		
8. Chain of Custody signed, dated, and timed when relinquished and received?	☒	☐	☐		
9. Sampler name and/or signature on COC?	☒	☐	☐		
10. Were all samples received within holding time?	☒	☐	☐		
11. TAT marked on the COC?	☒	☐	☐	If no TAT indicated, proceeded with standard TAT per Terms & Conditions.	

12. Cooler 1 Temperature 0.2 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

13. Comments: _____

I certify that I have completed sections 1-13 (dated initials). ZB 9/29/23

	Yes	No	N/A	Details	Comments
14. Temperature blanks present?	☒	☐	☐		
15. Were sample containers intact upon receipt?	☒	☐	☐		
16. Custody seals present on sample containers?	☒	☐	☐		
17. Custody seals intact on sample containers?	☒	☐	☐		
18. Do sample container labels match the COC?	☒	☐	☐	incomplete info ☐ illegible ☐ no label ☐ other ☐	
19. Are analyses requested indicated on the COC?	☒	☐	☐		
20. Were all of the samples listed on the COC received?	☒	☐	☐	samples received but not listed on COC ☐ samples listed on COC not received ☐	
21. Was the sample collection date/time noted?	☒	☐	☐		
22. Did we receive sufficient sample volume for indicated analyses?	☒	☐	☐		
23. Were samples received in appropriate containers?	☒	☐	☐		
24. Were VOA samples received without headspace (< 1/4" bubble)?	☒	☐	☐		
25. Were trip blanks submitted?	☒	☐	☐	listed on COC ☒ not listed on COC ☐	

26. Comments: _____

I certify that I have completed sections 14-26 (dated initials). AB 9/29/23
This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
27. Have containers needing chemical preservation been checked?*	☒	☐	☐		
28. Containers meet preservation guidelines?	☒	☐	☐		
29. Was pH adjusted at Sample Receipt?	☐	☐	☒		

***Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH. This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.**

I certify that I have completed sections 27-29(dated initials). AB 9/29/23

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT**BatchID: 363803**

Sample ID: MB-363803	Client ID:					Units: ug/L	Prep Date: 10/02/2023	Run No: 527518			
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E					BatchID: 363803	Analysis Date: 10/02/2023	Seq No: 12502876			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1'-Biphenyl	BRL	10
2,4,5-Trichlorophenol	BRL	25
2,4,6-Trichlorophenol	BRL	10
2,4-Dichlorophenol	BRL	10
2,4-Dimethylphenol	BRL	10
2,4-Dinitrophenol	BRL	25
2,4-Dinitrotoluene	BRL	10
2,6-Dinitrotoluene	BRL	10
2-Chloronaphthalene	BRL	10
2-Chlorophenol	BRL	10
2-Methylnaphthalene	BRL	10
2-Methylphenol	BRL	10
2-Nitroaniline	BRL	25
2-Nitrophenol	BRL	10
3,3'-Dichlorobenzidine	BRL	10
3-Nitroaniline	BRL	25
4,6-Dinitro-2-methylphenol	BRL	25
4-Bromophenyl phenyl ether	BRL	10
4-Chloro-3-methylphenol	BRL	10
4-Chloroaniline	BRL	10
4-Chlorophenyl phenyl ether	BRL	10
4-Methylphenol	BRL	10
4-Nitroaniline	BRL	25
4-Nitrophenol	BRL	25
Acenaphthene	BRL	10
Acenaphthylene	BRL	10
Acetophenone	BRL	10

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363803

Sample ID: MB-363803	Client ID:				Units: ug/L	Prep Date: 10/02/2023	Run No: 527518				
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E				BatchID: 363803	Analysis Date: 10/02/2023	Seq No: 12502876				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	BRL	10
Atrazine	BRL	10
Benz(a)anthracene	BRL	10
Benzaldehyde	BRL	10
Benzo(a)pyrene	BRL	10
Benzo(b)fluoranthene	BRL	10
Benzo(g,h,i)perylene	BRL	10
Benzo(k)fluoranthene	BRL	10
Bis(2-chloroethoxy)methane	BRL	10
Bis(2-chloroethyl)ether	BRL	10
Bis(2-chloroisopropyl)ether	BRL	10
Bis(2-ethylhexyl)phthalate	BRL	10
Butyl benzyl phthalate	BRL	10
Caprolactam	BRL	10
Carbazole	BRL	10
Chrysene	BRL	10
Di-n-butyl phthalate	BRL	10
Di-n-octyl phthalate	BRL	10
Dibenz(a,h)anthracene	BRL	10
Dibenzofuran	BRL	10
Diethyl phthalate	BRL	10
Dimethyl phthalate	BRL	10
Fluoranthene	BRL	10
Fluorene	BRL	10
Hexachlorobenzene	BRL	10
Hexachlorobutadiene	BRL	10
Hexachlorocyclopentadiene	BRL	10

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

ANALYTICAL QC SUMMARY REPORT

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

BatchID: 363803

Sample ID: MB-363803	Client ID:					Units: ug/L	Prep Date: 10/02/2023	Run No: 527518			
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E					BatchID: 363803	Analysis Date: 10/02/2023	Seq No: 12502876			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachloroethane	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Isophorone	BRL	10									
N-Nitrosodi-n-propylamine	BRL	10									
N-Nitrosodiphenylamine	BRL	10									
Naphthalene	BRL	10									
Nitrobenzene	BRL	10									
Pentachlorophenol	BRL	25									
Phenanthrene	BRL	10									
Phenol	BRL	10									
Pyrene	BRL	10									
Surr: 2,4,6-Tribromophenol	74.72	0	100.0		74.7	48	133				
Surr: 2-Fluorobiphenyl	39.38	0	50.00		78.8	46.7	118				
Surr: 2-Fluorophenol	51.28	0	100.0		51.3	28.5	120				
Surr: 4-Terphenyl-d14	44.26	0	50.00		88.5	45.2	127				
Surr: Nitrobenzene-d5	33.59	0	50.00		67.2	40.9	119				
Surr: Phenol-d5	34.02	0	100.0		34.0	20	63				

Sample ID: LCS-363803	Client ID:					Units: ug/L	Prep Date: 10/02/2023	Run No: 527518			
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E					BatchID: 363803	Analysis Date: 10/02/2023	Seq No: 12502877			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	90.57	10	100.0		90.6	60.9	131				
2-Chlorophenol	73.13	10	100.0		73.1	53.5	130				
4-Chloro-3-methylphenol	79.65	10	100.0		79.6	62	123				
4-Nitrophenol	41.39	25	100.0		41.4	20	120				
Acenaphthene	89.43	10	100.0		89.4	65.2	128				
N-Nitrosodi-n-propylamine	81.02	10	100.0		81.0	54.6	129				

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT**BatchID: 363803**

Sample ID: LCS-363803	Client ID:					Units: ug/L	Prep Date: 10/02/2023	Run No: 527518			
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS	SW8270E				BatchID: 363803	Analysis Date: 10/02/2023	Seq No: 12502877			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Pentachlorophenol	57.49	25	100.0		57.5	50.2	130				
Phenol	33.63	10	100.0		33.6	21.9	130				
Pyrene	105.4	10	100.0		105	62	132				
Surr: 2,4,6-Tribromophenol	88.61	0	100.0		88.6	48	133				
Surr: 2-Fluorobiphenyl	43.60	0	50.00		87.2	46.7	118				
Surr: 2-Fluorophenol	46.49	0	100.0		46.5	28.5	120				
Surr: 4-Terphenyl-d14	48.36	0	50.00		96.7	45.2	127				
Surr: Nitrobenzene-d5	38.10	0	50.00		76.2	40.9	119				
Surr: Phenol-d5	40.07	0	100.0		40.1	20	63				

Sample ID: 2309U90-001AMS	Client ID:					Units: ug/L	Prep Date: 10/02/2023	Run No: 527518			
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS	SW8270E	BatchID: 363803				Analysis Date: 10/02/2023	Seq No: 12502879			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	82.59	10	100.0		82.6	50.5	132				
2-Chlorophenol	60.87	10	100.0		60.9	45	120				
4-Chloro-3-methylphenol	68.77	10	100.0		68.8	43.2	124				
4-Nitrophenol	38.41	25	100.0		38.4	23.5	120				
Acenaphthene	81.35	10	100.0		81.4	50.2	126				
N-Nitrosodi-n-propylamine	74.73	10	100.0		74.7	52.5	120				
Pentachlorophenol	44.59	25	100.0		44.6	43	120				
Phenol	28.11	10	100.0		28.1	23.1	120				
Pyrene	96.16	10	100.0		96.2	51.5	130				
Surr: 2,4,6-Tribromophenol	71.00	0	100.0		71.0	48	133				
Surr: 2-Fluorobiphenyl	40.37	0	50.00		80.7	46.7	118				
Surr: 2-Fluorophenol	40.61	0	100.0		40.6	28.5	120				
Surr: 4-Terphenyl-d14	45.52	0	50.00		91.0	45.2	127				
Surr: Nitrobenzene-d5	37.14	0	50.00		74.3	40.9	119				

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363803

Sample ID: 2309U90-001AMS	Client ID:	Units: ug/L				Prep Date: 10/02/2023	Run No: 527518				
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 363803				Analysis Date: 10/02/2023	Seq No: 12502879				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Phenol-d5 21.86 0 100.0 21.9 20 63

Sample ID: 2309U90-001AMSD	Client ID:				Units: ug/L	Prep Date: 10/02/2023	Run No: 527518				
SampleType: MSD	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E				BatchID: 363803	Analysis Date: 10/02/2023	Seq No: 12502882				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	79.13	10	100.0		79.1	50.5	132	82.59	4.28	33.5	
2-Chlorophenol	63.27	10	100.0		63.3	45	120	60.87	3.87	43.1	
4-Chloro-3-methylphenol	66.39	10	100.0		66.4	43.2	124	68.77	3.52	48.6	
4-Nitrophenol	35.31	25	100.0		35.3	23.5	120	38.41	8.41	43.4	
Acenaphthene	80.37	10	100.0		80.4	50.2	126	81.35	1.21	37	
N-Nitrosodi-n-propylamine	74.29	10	100.0		74.3	52.5	120	74.73	0.591	39.2	
Pentachlorophenol	41.03	25	100.0		41.0	43	120	44.59	8.32	39.4	S
Phenol	29.35	10	100.0		29.4	23.1	120	28.11	4.32	45	
Pyrene	88.52	10	100.0		88.5	51.5	130	96.16	8.27	42.3	
Surr: 2,4,6-Tribromophenol	65.06	0	100.0		65.1	48	133	71.00	0	0	
Surr: 2-Fluorobiphenyl	39.62	0	50.00		79.2	46.7	118	40.37	0	0	
Surr: 2-Fluorophenol	34.58	0	100.0		34.6	28.5	120	40.61	0	0	
Surr: 4-Terphenyl-d14	41.23	0	50.00		82.5	45.2	127	45.52	0	0	
Surr: Nitrobenzene-d5	37.37	0	50.00		74.7	40.9	119	37.14	0	0	
Surr: Phenol-d5	35.02	0	100.0		35.0	20	63	21.86	0	0	

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363845

Sample ID: MB-363845	Client ID:	Units: mg/Kg				Prep Date: 10/02/2023	Run No: 527449				
SampleType: MBLK	TestCode: Total Mercury by SW7473	BatchID: 363845				Analysis Date: 10/02/2023	Seq No: 12500220				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: LCS-363845		Client ID:			Units: mg/Kg		Prep Date: 10/02/2023		Run No: 527449		
SampleType: LCS		TestCode: Total Mercury by SW7473			BatchID: 363845		Analysis Date: 10/02/2023		Seq No: 12500221		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.8731 0.100 1.000 87.3 80 120

Sample ID: 2309W06-005CMS	Client ID: SDP-2 10'	Units: mg/Kg-dry			Prep Date: 10/02/2023	Run No: 527449					
SampleType: MS	TestCode: Total Mercury by SW7473	BatchID: 363845			Analysis Date: 10/02/2023	Seq No: 12500237					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.8447 0.124 1.211 69.8 80 120 S

Sample ID: 2309W06-005CMSD		Client ID: SDP-2 10'				Units: mg/Kg-dry		Prep Date: 10/02/2023		Run No: 527449	
SampleType: MSD		TestCode: Total Mercury by SW7473				BatchID: 363845		Analysis Date: 10/02/2023		Seq No: 12500238	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.9017 0.124 1.211 74.5 80 120 0.8447 6.53 20 S

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363917

Sample ID: MB-363917	Client ID:	Units: ug/Kg				Prep Date: 10/03/2023	Run No: 527660				
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 363917				Analysis Date: 10/04/2023	Seq No: 12506870				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1'-Biphenyl	BRL	330
2,4,5-Trichlorophenol	BRL	1700
2,4,6-Trichlorophenol	BRL	330
2,4-Dichlorophenol	BRL	330
2,4-Dimethylphenol	BRL	330
2,4-Dinitrophenol	BRL	1700
2,4-Dinitrotoluene	BRL	330
2,6-Dinitrotoluene	BRL	330
2-Chloronaphthalene	BRL	330
2-Chlorophenol	BRL	330
2-Methylnaphthalene	BRL	330
2-Methylphenol	BRL	330
2-Nitroaniline	BRL	1700
2-Nitrophenol	BRL	330
3,3'-Dichlorobenzidine	BRL	670
3-Nitroaniline	BRL	1700
4,6-Dinitro-2-methylphenol	BRL	1700
4-Bromophenyl phenyl ether	BRL	330
4-Chloro-3-methylphenol	BRL	330
4-Chloroaniline	BRL	330
4-Chlorophenyl phenyl ether	BRL	330
4-Methylphenol	BRL	330
4-Nitroaniline	BRL	1700
4-Nitrophenol	BRL	1700
Acenaphthene	BRL	330
Acenaphthylene	BRL	330
Acetophenone	BRL	330

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363917

Sample ID: MB-363917	Client ID:					Units: ug/Kg	Prep Date: 10/03/2023	Run No: 527660			
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E					BatchID: 363917	Analysis Date: 10/04/2023	Seq No: 12506870			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	BRL	330
Atrazine	BRL	330
Benz(a)anthracene	BRL	330
Benzaldehyde	BRL	330
Benzo(a)pyrene	BRL	330
Benzo(b)fluoranthene	BRL	330
Benzo(g,h,i)perylene	BRL	330
Benzo(k)fluoranthene	BRL	330
Bis(2-chloroethoxy)methane	BRL	330
Bis(2-chloroethyl)ether	BRL	330
Bis(2-chloroisopropyl)ether	BRL	330
Bis(2-ethylhexyl)phthalate	BRL	330
Butyl benzyl phthalate	BRL	330
Caprolactam	BRL	330
Carbazole	BRL	330
Chrysene	BRL	330
Di-n-butyl phthalate	BRL	330
Di-n-octyl phthalate	BRL	330
Dibenz(a,h)anthracene	BRL	330
Dibenzofuran	BRL	330
Diethyl phthalate	BRL	330
Dimethyl phthalate	BRL	330
Fluoranthene	BRL	330
Fluorene	BRL	330
Hexachlorobenzene	BRL	330
Hexachlorobutadiene	BRL	330
Hexachlorocyclopentadiene	BRL	660

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363917

Sample ID: MB-363917	Client ID:	Units: ug/Kg			Prep Date: 10/03/2023	Run No: 527660					
SampleType: MBLK	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 363917			Analysis Date: 10/04/2023	Seq No: 12506870					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachloroethane	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Isophorone	BRL	330									
N-Nitrosodi-n-propylamine	BRL	330									
N-Nitrosodiphenylamine	BRL	330									
Naphthalene	BRL	330									
Nitrobenzene	BRL	330									
Pentachlorophenol	BRL	1700									
Phenanthrene	BRL	330									
Phenol	BRL	330									
Pyrene	BRL	330									
Surr: 2,4,6-Tribromophenol	2120	0	3333		63.6	45.5	127				
Surr: 2-Fluorobiphenyl	1234	0	1667		74.0	54.6	120				
Surr: 2-Fluorophenol	2676	0	3333		80.3	44	120				
Surr: 4-Terphenyl-d14	1522	0	1667		91.3	54	120				
Surr: Nitrobenzene-d5	1586	0	1667		95.2	45	120				
Surr: Phenol-d5	2861	0	3333		85.8	46.5	120				

Sample ID: LCS-363917	Client ID:	Units: ug/Kg				Prep Date: 10/03/2023	Run No: 527660				
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E	BatchID: 363917				Analysis Date: 10/04/2023	Seq No: 12508554				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2906	330	3333		87.2	50	121				
2-Chlorophenol	2639	330	3333		79.2	51.5	120				
4-Chloro-3-methylphenol	3380	330	3333		101	53.1	120				
4-Nitrophenol	3159	1700	3333		94.8	46.6	120				
Acenaphthene	2749	330	3333		82.5	55	120				
N-Nitrosodi-n-propylamine	3435	330	3333		103	50.5	122				

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT**BatchID: 363917**

Sample ID: LCS-363917	Client ID:					Units: ug/Kg	Prep Date: 10/03/2023	Run No: 527660			
SampleType: LCS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E					BatchID: 363917	Analysis Date: 10/04/2023	Seq No: 12508554			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Pentachlorophenol	1930	1700	3333		57.9	51.4	120				
Phenol	2670	330	3333		80.1	50.4	120				
Pyrene	3222	330	3333		96.6	62	121				
Surr: 2,4,6-Tribromophenol	2352	0	3333		70.6	45.5	127				
Surr: 2-Fluorobiphenyl	1398	0	1667		83.9	54.6	120				
Surr: 2-Fluorophenol	2934	0	3333		88.0	44	120				
Surr: 4-Terphenyl-d14	1580	0	1667		94.8	54	120				
Surr: Nitrobenzene-d5	1799	0	1667		108	45	120				
Surr: Phenol-d5	3173	0	3333		95.2	46.5	120				

Sample ID: 2310011-003BMS	Client ID:					Units: mg/Kg-dry	Prep Date: 10/03/2023	Run No: 527660			
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E					BatchID: 363917	Analysis Date: 10/04/2023	Seq No: 12508556			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2.549	0.35	3.571		71.4	43.2	118				
2-Chlorophenol	2.224	0.35	3.571		62.3	44.9	120				
4-Chloro-3-methylphenol	2.855	0.35	3.571		79.9	47.5	120				
4-Nitrophenol	2.910	1.8	3.571		81.5	32.4	120				
Acenaphthene	2.478	0.35	3.571		69.4	45	120				
N-Nitrosodi-n-propylamine	2.921	0.35	3.571		81.8	50	120				
Pentachlorophenol	BRL	1.8	3.571		45.4	46.5	120				S
Phenol	2.285	0.35	3.571		64.0	45.5	120				
Pyrene	3.059	0.35	3.571		85.6	49	117				
Surr: 2,4,6-Tribromophenol	2.080	0	3.571		58.2	45.5	127				
Surr: 2-Fluorobiphenyl	1.229	0	1.786		68.8	54.6	120				
Surr: 2-Fluorophenol	2.331	0	3.571		65.3	44	120				
Surr: 4-Terphenyl-d14	1.349	0	1.786		75.5	54	120				
Surr: Nitrobenzene-d5	1.489	0	1.786		83.4	45	120				

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363917

Sample ID: 2310011-003BMS	Client ID:				Units: mg/Kg-dry	Prep Date: 10/03/2023	Run No: 527660				
SampleType: MS	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E				BatchID: 363917	Analysis Date: 10/04/2023	Seq No: 12508556				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Phenol-d5	2.645	0	3.571		74.1	46.5	120				
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Sample ID: 2310011-003BMSD	Client ID:				Units: mg/Kg-dry	Prep Date: 10/03/2023	Run No: 527660				
SampleType: MSD	TestCode: TCL-SEMIVOLATILE ORGANICS SW8270E				BatchID: 363917	Analysis Date: 10/04/2023	Seq No: 12508557				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	2.421	0.35	3.571		67.8	43.2	118	2.549	5.13	34.6	
2-Chlorophenol	2.131	0.35	3.571		59.7	44.9	120	2.224	4.26	34.7	
4-Chloro-3-methylphenol	2.821	0.35	3.571		79.0	47.5	120	2.855	1.21	31.9	
4-Nitrophenol	2.593	1.8	3.571		72.6	32.4	120	2.910	11.5	44	
Acenaphthene	2.323	0.35	3.571		65.0	45	120	2.478	6.46	31	
N-Nitrosodi-n-propylamine	2.794	0.35	3.571		78.2	50	120	2.921	4.44	32.9	
Pentachlorophenol	BRL	1.8	3.571		41.6	46.5	120	1.621	0	34.7	S
Phenol	2.218	0.35	3.571		62.1	45.5	120	2.285	2.98	35.2	
Pyrene	2.974	0.35	3.571		83.3	49	117	3.059	2.81	32	
Surr: 2,4,6-Tribromophenol	1.899	0	3.571		53.2	45.5	127	2.080	0	0	
Surr: 2-Fluorobiphenyl	1.149	0	1.786		64.4	54.6	120	1.229	0	0	
Surr: 2-Fluorophenol	2.181	0	3.571		61.1	44	120	2.331	0	0	
Surr: 4-Terphenyl-d14	1.278	0	1.786		71.6	54	120	1.349	0	0	
Surr: Nitrobenzene-d5	1.434	0	1.786		80.3	45	120	1.489	0	0	
Surr: Phenol-d5	2.608	0	3.571		73.0	46.5	120	2.645	0	0	

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363928

Sample ID: MB-363928	Client ID:	Units: ug/L	Prep Date: 10/02/2023	Run No: 527489							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260D	BatchID: 363928	Analysis Date: 10/02/2023	Seq No: 12501946							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloroethene, Total	BRL	10
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	50
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	5.0
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363928

Sample ID: MB-363928	Client ID:					Units: ug/L	Prep Date: 10/02/2023		Run No: 527489		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260D					BatchID: 363928	Analysis Date: 10/02/2023		Seq No: 12501946		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	49.59	0	50.00		99.2	70	126				
Surr: Dibromofluoromethane	52.94	0	50.00		106	77	121				
Surr: Toluene-d8	50.62	0	50.00		101	78.6	119				

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT**BatchID: 363928**

Sample ID: LCS-363928	Client ID:					Units: ug/L	Prep Date: 10/02/2023	Run No: 527489			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260D					BatchID: 363928	Analysis Date: 10/02/2023	Seq No: 12501961			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	23.56	5.0	20.00		118	71	130				
Benzene	20.33	5.0	20.00		102	78.8	120				
Chlorobenzene	19.64	5.0	20.00		98.2	80	118				
Toluene	20.17	5.0	20.00		101	76.6	125				
Trichloroethene	20.63	5.0	20.00		103	75.3	127				
Surr: 4-Bromofluorobenzene	49.91	0	50.00		99.8	70	126				
Surr: Dibromofluoromethane	51.97	0	50.00		104	77	121				
Surr: Toluene-d8	50.45	0	50.00		101	78.6	119				

Sample ID: 2309W31-001AMS	Client ID:					Units: ug/L	Prep Date: 10/02/2023	Run No: 527489			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260D					BatchID: 363928	Analysis Date: 10/02/2023	Seq No: 12501993			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	135500	25000	100000		135	69	142				
Benzene	113000	25000	100000		113	71.4	135				
Chlorobenzene	105400	25000	100000		105	77.7	129				
Toluene	110500	25000	100000		110	70.3	136				
Trichloroethene	117400	25000	100000		117	77	134				
Surr: 4-Bromofluorobenzene	252700	0	250000		101	70	126				
Surr: Dibromofluoromethane	263900	0	250000		106	77	121				
Surr: Toluene-d8	251200	0	250000		100	78.6	119				

Sample ID: 2309W31-001AMSD	Client ID:					Units: ug/L	Prep Date: 10/02/2023	Run No: 527489			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260D					BatchID: 363928	Analysis Date: 10/02/2023	Seq No: 12501995			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	120100	25000	100000		120	69	142	135500	12.0	39.2	
Benzene	106200	25000	100000		106	71.4	135	113000	6.16	31.6	

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363928

Sample ID: 2309W31-001AMSD	Client ID:	Units: ug/L				Prep Date: 10/02/2023	Run No: 527489				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260D	BatchID: 363928				Analysis Date: 10/02/2023	Seq No: 12501995				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	101800	25000	100000		102	77.7	129	105400	3.52	34.3	
Toluene	106100	25000	100000		106	70.3	136	110500	4.11	32	
Trichloroethene	109700	25000	100000		110	77	134	117400	6.83	35.3	
Surr: 4-Bromofluorobenzene	250000	0	250000		100	70	126	252700	0	0	
Surr: Dibromofluoromethane	260900	0	250000		104	77	121	263900	0	0	
Surr: Toluene-d8	254500	0	250000		102	78.6	119	251200	0	0	

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363943

Sample ID: MB-363943	Client ID:	Units: ug/Kg				Prep Date: 10/02/2023	Run No: 527509				
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260D	BatchID: 363943				Analysis Date: 10/02/2023	Seq No: 12502429				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0
1,1,2,2-Tetrachloroethane	BRL	5.0
1,1,2-Trichloroethane	BRL	5.0
1,1-Dichloroethane	BRL	5.0
1,1-Dichloroethene	BRL	5.0
1,2,4-Trichlorobenzene	BRL	5.0
1,2-Dibromo-3-chloropropane	BRL	5.0
1,2-Dibromoethane	BRL	5.0
1,2-Dichlorobenzene	BRL	5.0
1,2-Dichloroethane	BRL	5.0
1,2-Dichloroethene, Total	BRL	10
1,2-Dichloropropane	BRL	5.0
1,3-Dichlorobenzene	BRL	5.0
1,4-Dichlorobenzene	BRL	5.0
2-Butanone	BRL	50
2-Hexanone	BRL	10
4-Methyl-2-pentanone	BRL	10
Acetone	BRL	100
Benzene	BRL	5.0
Bromodichloromethane	BRL	5.0
Bromoform	BRL	5.0
Bromomethane	BRL	5.0
Carbon disulfide	BRL	10
Carbon tetrachloride	BRL	5.0
Chlorobenzene	BRL	5.0
Chloroethane	BRL	10
Chloroform	BRL	5.0

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363943

Sample ID: MB-363943	Client ID:					Units: ug/Kg	Prep Date: 10/02/2023		Run No: 527509		
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260D					BatchID: 363943	Analysis Date: 10/02/2023		Seq No: 12502429		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	44.97	0	50.00		89.9	65.7	125				
Surr: Dibromofluoromethane	53.70	0	50.00		107	74.3	126				
Surr: Toluene-d8	53.07	0	50.00		106	72.7	124				

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT**BatchID: 363943**

Sample ID: LCS-363943	Client ID:					Units: ug/Kg	Prep Date: 10/02/2023	Run No: 527509			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260D					BatchID: 363943	Analysis Date: 10/02/2023	Seq No: 12502430			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.41	5.0	50.00		101	70	130				
Benzene	54.22	5.0	50.00		108	70	130				
Chlorobenzene	52.08	5.0	50.00		104	70	130				
Toluene	54.10	5.0	50.00		108	70	130				
Trichloroethene	57.25	5.0	50.00		114	70	130				
Surr: 4-Bromofluorobenzene	50.71	0	50.00		101	65.7	125				
Surr: Dibromofluoromethane	52.59	0	50.00		105	74.3	126				
Surr: Toluene-d8	53.37	0	50.00		107	72.7	124				

Sample ID: 2309U96-016AMS	Client ID:					Units: mg/Kg-dry	Prep Date: 10/02/2023	Run No: 527509			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260D					BatchID: 363943	Analysis Date: 10/03/2023	Seq No: 12503511			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.02510	0.0039	0.0388		64.7	54.8	128				
Benzene	0.03011	0.0039	0.0388		77.7	63	124				
Chlorobenzene	0.02799	0.0039	0.0388		72.2	57.9	129				
Toluene	0.02853	0.0039	0.0388		73.6	61.4	128				
Trichloroethene	0.02940	0.0039	0.0388		75.8	57.2	130				
Surr: 4-Bromofluorobenzene	0.03703	0	0.0388		95.5	65.7	125				
Surr: Dibromofluoromethane	0.04081	0	0.0388		105	74.3	126				
Surr: Toluene-d8	0.04108	0	0.0388		106	72.7	124				

Sample ID: 2309U96-018ADUP	Client ID:					Units: mg/Kg-dry	Prep Date: 10/02/2023	Run No: 527509			
SampleType: DUP	TestCode: TCL VOLATILE ORGANICS SW8260D					BatchID: 363943	Analysis Date: 10/03/2023	Seq No: 12503510			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	0.0041						0	0	20	
1,1,2,2-Tetrachloroethane	BRL	0.0041						0	0	20	

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363943

Sample ID: 2309U96-018ADUP	Client ID:					Units: mg/Kg-dry	Prep Date: 10/02/2023	Run No: 527509			
SampleType: DUP	TestCode: TCL VOLATILE ORGANICS SW8260D					BatchID: 363943	Analysis Date: 10/03/2023	Seq No: 12503510			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,2-Trichloroethane	BRL	0.0041						0	0	20	
1,1-Dichloroethane	BRL	0.0041						0	0	20	
1,1-Dichloroethene	BRL	0.0041						0	0	20	
1,2,4-Trichlorobenzene	BRL	0.0041						0	0	20	
1,2-Dibromo-3-chloropropane	BRL	0.0041						0	0	20	
1,2-Dibromoethane	BRL	0.0041						0	0	20	
1,2-Dichlorobenzene	BRL	0.0041						0	0	20	
1,2-Dichloroethane	BRL	0.0041						0	0	20	
1,2-Dichloroethene, Total	BRL	0.0083						0	0	0	
1,2-Dichloropropane	BRL	0.0041						0	0	20	
1,3-Dichlorobenzene	BRL	0.0041						0	0	20	
1,4-Dichlorobenzene	BRL	0.0041						0	0	20	
2-Butanone	BRL	0.041						0	0	20	
2-Hexanone	BRL	0.0083						0	0	20	
4-Methyl-2-pentanone	BRL	0.0083						0	0	20	
Acetone	BRL	0.083						0	0	20	
Benzene	BRL	0.0041						0	0	20	
Bromodichloromethane	BRL	0.0041						0	0	20	
Bromoform	BRL	0.0041						0	0	20	
Bromomethane	BRL	0.0041						0	0	20	
Carbon disulfide	BRL	0.0083						0	0	20	
Carbon tetrachloride	BRL	0.0041						0	0	20	
Chlorobenzene	BRL	0.0041						0	0	20	
Chloroethane	BRL	0.0083						0	0	20	
Chloroform	BRL	0.0041						0	0	20	
Chloromethane	BRL	0.0083						0	0	20	
cis-1,2-Dichloroethene	BRL	0.0041						0	0	20	

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363943

Sample ID: 2309U96-018ADUP	Client ID:	Units: mg/Kg-dry				Prep Date: 10/02/2023		Run No: 527509			
SampleType: DUP	TestCode: TCL VOLATILE ORGANICS SW8260D	BatchID: 363943				Analysis Date: 10/03/2023		Seq No: 12503510			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,3-Dichloropropene	BRL	0.0041						0	0	20	
Cyclohexane	BRL	0.0041						0	0	20	
Dibromochloromethane	BRL	0.0041						0	0	20	
Dichlorodifluoromethane	BRL	0.0083						0	0	20	
Ethylbenzene	BRL	0.0041						0	0	20	
Freon-113	BRL	0.0083						0	0	20	
Isopropylbenzene	BRL	0.0041						0	0	20	
m,p-Xylene	BRL	0.0041						0	0	20	
Methyl acetate	BRL	0.0041						0	0	20	
Methyl tert-butyl ether	BRL	0.0041						0	0	20	
Methylcyclohexane	BRL	0.0041						0	0	20	
Methylene chloride	BRL	0.017						0.003789	0	20	
o-Xylene	BRL	0.0041						0	0	20	
Styrene	BRL	0.0041						0	0	20	
Tetrachloroethene	BRL	0.0041						0	0	20	
Toluene	BRL	0.0041						0	0	20	
trans-1,2-Dichloroethene	BRL	0.0041						0	0	20	
trans-1,3-Dichloropropene	BRL	0.0041						0	0	20	
Trichloroethene	BRL	0.0041						0	0	20	
Trichlorofluoromethane	BRL	0.0041						0	0	20	
Vinyl chloride	BRL	0.0083						0	0	20	
Xylenes, Total	BRL	0.0041						0	0	0	
Surr: 4-Bromofluorobenzene	0.03667	0	0.0414		88.7	65.7	125	0.03782	0	0	
Surr: Dibromofluoromethane	0.04397	0	0.0414		106	74.3	126	0.04520	0	0	
Surr: Toluene-d8	0.04298	0	0.0414		104	72.7	124	0.04350	0	0	

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363946

Sample ID: MB-363946	Client ID:					Units: mg/Kg	Prep Date: 10/04/2023	Run No: 527612			
SampleType: MBLK	TestCode: METALS, TOTAL	SW6010D	BatchID: 363946				Analysis Date: 10/04/2023	Seq No: 12506493			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	2.50
Barium	BRL	5.00
Cadmium	BRL	2.00
Chromium	BRL	2.50
Lead	BRL	5.00
Selenium	BRL	2.00
Silver	BRL	2.00

Sample ID: LCS-363946	Client ID:					Units: mg/Kg	Prep Date: 10/04/2023	Run No: 527612			
SampleType: LCS	TestCode: METALS, TOTAL	SW6010D	BatchID: 363946				Analysis Date: 10/04/2023	Seq No: 12506494			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	48.60	2.50	50.00	97.2	80	120
Barium	51.06	5.00	50.00	102	80	120
Cadmium	49.64	2.50	50.00	99.3	80	120
Chromium	52.05	2.50	50.00	104	80	120
Lead	49.21	5.00	50.00	98.4	80	120
Selenium	43.06	3.50	50.00	86.1	80	120
Silver	5.050	2.50	5.000	101	80	120

Sample ID: 2310083-001AMS	Client ID:				Units: mg/Kg-dry	Prep Date: 10/04/2023	Run No: 527612				
SampleType: MS	TestCode: METALS, TOTAL	SW6010D	BatchID: 363946			Analysis Date: 10/04/2023	Seq No: 12506496				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	33.63	1.82	36.37	1.073	89.5	75	125
Barium	57.41	3.64	36.37	20.36	102	75	125
Cadmium	35.66	1.82	36.37		98.0	75	125
Chromium	46.71	1.82	36.37	7.659	107	75	125

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

Client: Sailors Engineering Associates
Project Name: Charles Hardy Pkwy
Workorder: 2309W06

ANALYTICAL QC SUMMARY REPORT

BatchID: 363946

Sample ID: 2310083-001AMS	Client ID:				Units: mg/Kg-dry	Prep Date: 10/04/2023	Run No: 527612				
SampleType: MS	TestCode: METALS, TOTAL	SW6010D	BatchID: 363946			Analysis Date: 10/04/2023	Seq No: 12506496				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	42.51	3.64	36.37	7.864	95.3	75	125
Selenium	28.84	2.55	36.37		79.3	75	125
Silver	3.661	1.82	3.637		101	75	125

Sample ID: 2310083-001AMSD		Client ID:			Units: mg/Kg-dry			Prep Date: 10/04/2023		Run No: 527612	
SampleType: MSD		TestCode: METALS, TOTAL SW6010D			BatchID: 363946			Analysis Date: 10/04/2023		Seq No: 12506497	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	33.66	1.82	36.41	1.073	89.5	75	125	33.63	0.083	20
Barium	57.58	3.64	36.41	20.36	102	75	125	57.41	0.288	20
Cadmium	36.02	1.82	36.41		98.9	75	125	35.66	1.00	20
Chromium	45.50	1.82	36.41	7.659	104	75	125	46.71	2.62	20
Lead	42.34	3.64	36.41	7.864	94.7	75	125	42.51	0.400	20
Selenium	29.25	2.55	36.41		80.3	75	125	28.84	1.41	20
Silver	3.710	1.82	3.641		102	75	125	3.661	1.32	20

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

End of Report

LOG OF BORING

SHEET 1 OF 1
BORING NO.
SDP-1

CONTRACTED WITH: Highlands Residential LLC

PROJECT NAME: Charles Hardy Parkway Property

JOB NO.
222-016

DATE:
9/29/23

LOCATION: 4036 Charles Hardy Parkway

ELEV. (ft)	DESCRIPTION	DEPTH IN FEET	SAMPLES			NOTES
			No.	TYPE	BLOWS/6"	
	Top soil - 3" Dark sand with some silt					
	Red brown sand with some silt	1				Direct push boring
		5				Well casing - 1" PCV 10' screen 15' riser
		10				
		15				
		20				
			*			* Water table - 22.9'
		25				
	Boring terminated at 25'					
		30				
		35				
		40				

SEA

LOG OF BORING

SHEET 1 OF 1
BORING NO.
SDP-2

CONTRACTED WITH: Highlands Residential LLC

PROJECT NAME: Charles Hardy Parkway Property

JOB NO.
222-016

DATE:
9/29/23

LOCATION: 4036 Charles Hardy Parkway

ELEV. (ft)	DESCRIPTION	DEPTH IN FEET	SAMPLES			NOTES
			No.	TYPE	BLOWS/6"	
	No top soil					
	Red brown sand with a trace of silt	1				Direct push boring
		5	*			Well casing - 1" PCV 10' screen 10' riser
		10	*			* Soil samples collected at 5' and 10'
	Red brown sand with some silt	15				
		20	*			* Water table - 19.01'
	Boring terminated at 20'	25				
		30				
		35				
		40				

SEA

LOG OF BORING

SHEET 1 OF 1
BORING NO.
SDP-3

CONTRACTED WITH: Highlands Residential LLC

PROJECT NAME: Charles Hardy Parkway Property

JOB NO.
222-016

DATE:
9/29/23

LOCATION: 4036 Charles Hardy Parkway

ELEV. (ft)	DESCRIPTION	DEPTH IN FEET	SAMPLES			NOTES
			No.	TYPE	BLOWS/6"	
	No top soil					
	Red brown sand with some silt and clay	1				Direct push boring Well casing - 1" PCV 10' screen 10' riser * Water table - 13.64'
		5				
	Red brown sand with some silt and a trace of clay	10				
			*			
		15				
	Boring terminated at 17'					
		20				
		25				
		30				
		35				
		40				

SEA