



July 21, 2023

Mr. Ben Lewis, PE
Project Engineer
HDR Inc.
1201 Main Street, Suite 800
Columbia, SC 29201

**RE: Phase II Environmental Site Assessment (ESA)
Carolina Crossroads Project – Tract 571
160 Crews Drive
Columbia, Lexington County, South Carolina
FME Project G5662.030 (Rev. 1)**

Dear Mr. Lewis,

F&ME Consultants, Inc. (FME) has performed Phase II Environmental Site Assessment (Phase II ESA) services on a 25-acre property associated with road improvements identified as Tract 571 of the Carolina Crossroads Project in Columbia, Lexington County, South Carolina. The site, identified as Lexington County tax map number (TMS) #003697-07-001, was identified as a possible solid waste disposal facility (SWF) or landfill. The site, located at 160 Crews Drive (i.e., the terminus of Crews Drive) is presently owned by B&K Properties of Columbia LLC. The possible past use as a SWF or landfill was documented in a Phase I Environmental Site Assessment Report (Phase I Report) prepared by Terracon Consultants, Inc. dated February 1, 2022.

The current Phase II ESA assessment was performed at the request of HDR Inc. (Client) and South Carolina Department of Transportation (SCDOT), the “Users” of this report. The Phase II ESA was performed as part of proposed road improvement activities. Refer to the Site Vicinity Map which is included in Attachment #1, Figure 1.

Based on an email from Ms. Maria Yesenia Trejo of HDR to FME on April 18, 2023, FME understands that the entire property is not being acquired as part of this road improvement project. Rather, the taking by SCDOT is only a partial taking to expand the existing right-of-way (ROW). Therefore, Phase II ESA assessment activities were limited to the lands that would be included in the expanded ROW, rather than the entire 25-acre parcel. Refer to Attachment #1 for a depiction of the proposed ROW and areas assessed.

The parcel identified as potential environmental concern in the previous Terracon Phase I ESA generally stemmed from regulatory records which identified the site as the Mustard-Coleman Construction Incorporated facility, a former SWF or landfill. This site was issued a SCDHEC permit



for the collection and disposal of native inorganic nontoxic material. SCDHEC had issued an Industrial Waste Permit No. IWP-086 to Mustard-Coleman Construction for the operation of an inert/cellulosic solid waste landfill. However, additional regulatory or historic information on the disposal at this site was very limited. No additional information relative to the actual waste deposition, compliance, or closure of this SWF or landfill was located. Therefore, HDR and SCDOT requested additional assessment to determine if past operations may adversely affect future road improvements or ROW acquisition.

In order to assess potential soil impacts within or adjacent to the road improvement area, FME installed three (3) soil borings to temporary subsurface soil borings to determine if the noted parcel has been impacted by past disposal release events. FME collected a soil sample from each temporary soil boring location. Refer to the Sampling Plan which includes the sample locations in Attachment #2, Figure 2.

Soil Assessment Methodologies

On June 1, 2023, FME personnel oversaw the installation of a total of three (3) subsurface soil borings the site noted above. Soil borings were installed, and samples were collected via the use of direct-push drilling methods (i.e., Geoprobe) to a maximum depth of ten (10) feet below ground surface (bgs), i.e., within the limits of the new proposed ROW. The Geoprobe drilling equipment was decontaminated between each sample location. Attachment #2, soil boring logs, includes a summary of field sampling locations, depths of borings, soil characteristics, and organic vapor analyzer (OVA) photo-ionization detector (PID) readings from subsurface boring locations. The soil boring logs and field information sheets are available in Attachment #2 of this report.

Each collected soil sample was assessed by an environmental professional from FME for physical evidence of contamination, such as staining or odors. As VOCs are a potential Constituents of Concern (CoC), samples were field screened using a PID. FME's initial soil assessment protocol was to choose the soil interval with the highest PID reading for laboratory analysis to characterize the maximum concentrations of CoC within each subsurface soil boring. For quality assurance/quality control (QA/QC) purposes, a duplicate soil sample (i.e., DUP) was also collected from boring B-3 for quality assurance/quality control (QA/QC) purposes.

Upon completion of sampling activities, each subsurface soil boring location was grouted and properly abandoned after samples were collected and logged. The soil boring logs and field information sheets include more details regarding soils and are available in Attachment #2 of this report.

QA/QC Sample Information

A chain of custody was filled out to document the shipping and handling process to ensure sample integrity. Subsurface soil samples and required QA/QC samples were submitted to Access Analytical Laboratories, a South Carolina Department of Health and Environmental Control (SCDHEC) certified laboratory, for analysis. The complete Laboratory Analytical Package is included

within Attachment #3 of this report. The Laboratory Analytical Package includes the relevant laboratory analytical QC summary results for the samples collected.

Laboratory Results

The complete Laboratory Analytical Package is included in Attachment #3. Very low PID readings (i.e., less than 3 parts per million, or ppm) were detected within some of the soil boring locations. Soil analytical results indicated that no Target Compound List (TCL) VOC were detected within the three (3) soil borings. No groundwater was encountered within the three (3) soil borings, which were each advanced to 10-feet bgs.

Analysis of soil samples indicate no TCL VOC were detected above the laboratory Reporting Limit (RL) within three (3) collected samples or the duplicate collected from the location of B-3.

It should be noted that some petroleum constituents were reported within the equipment blank. The equipment blank is a QA/QC sample designed to indicate that no contamination identified is coming from the equipment being used for the borings and sampling. The equipment blank was prepared in the field using distilled water that is poured over the drive shoe of the probe rod into the laboratory-supplied sample container. In this instance, petroleum constituents, including benzene, toluene, ethylbenzene, and xylenes, were detected within the equipment blank, but were not detected within any of the collected soil samples. These anomalous results may indicate that results were possibly from the decontamination equipment (e.g., brushes and buckets). Again, none of the VOC constituents detected within the equipment blank were identified within any of the collected soil samples.

As no TCL VOC were identified within collected soil samples, no additional assessment of soil is recommended at this time.

Conclusion

No TCL VOC were detected within any of the collected subsurface soil samples and no indications of gross contamination or landfilling were observed within the collected soil samples. Therefore, assessment does not indicate environmental impacts within collected soil samples and no further soil or groundwater assessment is recommended at this time.

Although not anticipated, if any evidence of impacted soils or possible landfilling activities were encountered during roadwork (i.e., odors, foreign material, debris, staining, sheen), FME would recommend contacting an environmental professional to more fully evaluate any observed impacts or evidence of landfilling.

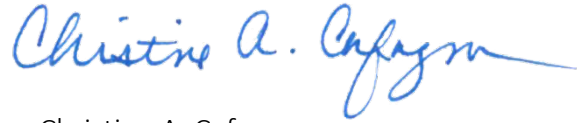
If you have any questions concerning the contents of this correspondence or if we can provide any additional information, please feel free to contact us at 803-254-4540.

Sincerely,

F&ME CONSULTANTS



Rodney W. Wingard
Environmental Manager



Christine A. Cafagna
Senior Environmental Manager

cc: Ms. Maria Yesenia Trejo, HDR

Attachments:

Attachment #1 – Figures

Attachment #2 – Soil Boring Logs and Field Information

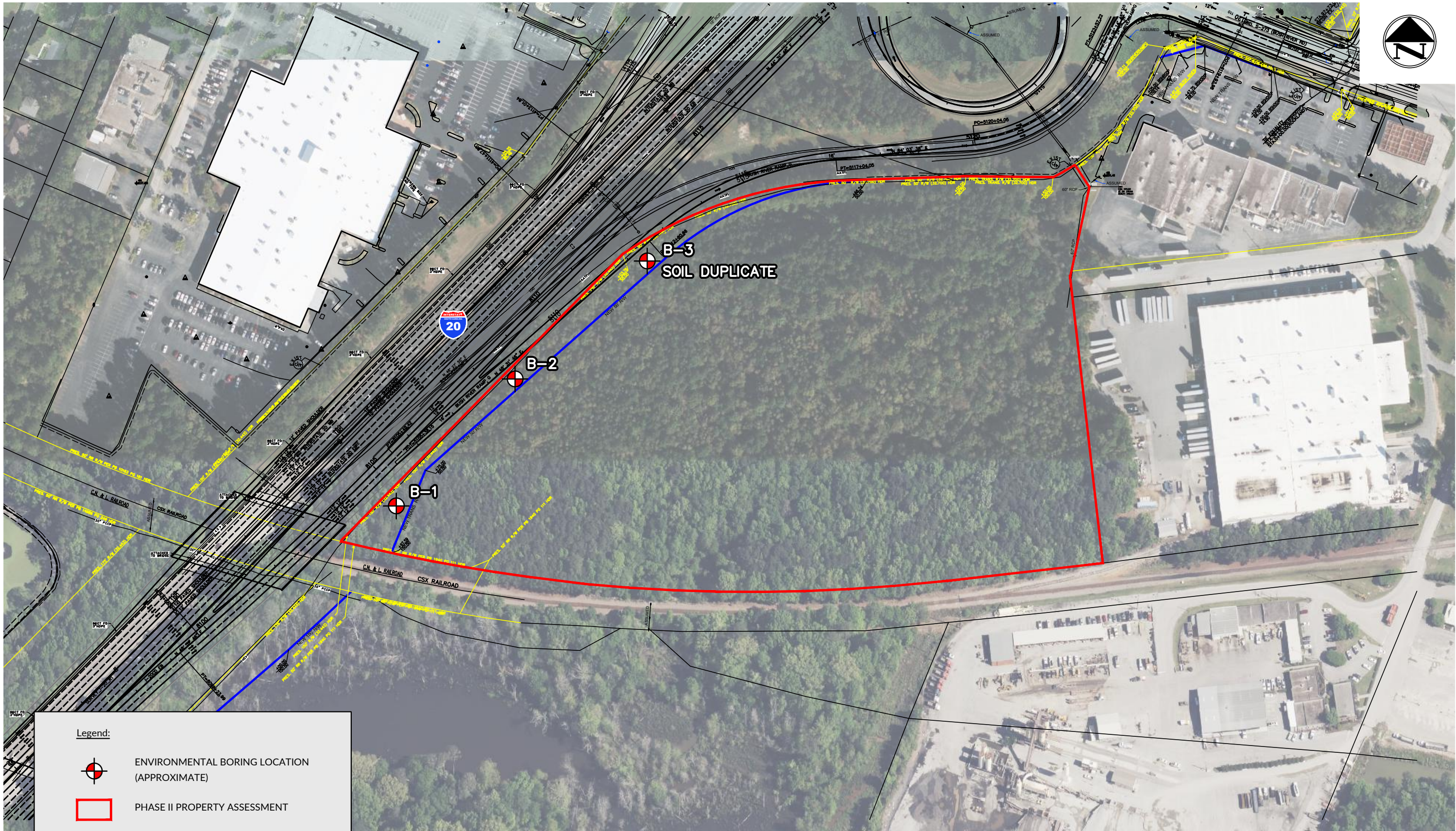
Attachment #3 – Laboratory Analytical Package

Attachment #1





Figures

Figure 1. Site Location Map

Figure 2. Sample Location Plan



Legend:

-  ENVIRONMENTAL BORING LOCATION (APPROXIMATE)
-  PHASE II PROPERTY ASSESSMENT
-  EXISTING R/W
-  PROPOSED R/W

| | | | |
|--------------|-----|------------|----------------|
| DRAWN BY: | CTC | ORIGINAL: | |
| APPROVED BY: | CAC | | June 2, 2023 |
| NOTES: | | REVISIONS: | |
| | | 1 | |
| | | 2 | |
| | | 3 | |
| | | | SCALE: 1"=200' |



F&ME CONSULTANTS, INC.
211 BUSINESS PARK BLVD.
COLUMBIA, SC 29203

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT
CAROLINA CROSSROADS TRACK 571 - 160 CREWS DRIVE
LEXINGTON COUNTY, SOUTH CAROLINA

APPENDIX B - ENVIRONMENTAL BORING PLAN

F&ME CONSULTANTS
PROJECT NUMBER:

G5662.030

FIGURE
NUMBER:

2

Attachment #2

Boring Logs and Field Information



BORING LOG: B-1

PROJECT: Phase II ESA - CCR CM 8 - Track 571

LOCATION: 160 Crews Drive, Lexington, SC

PROJECT NUMBER: G5662.030

DRILLING CONTRACTOR: W. Walker Environmental Services, LLC

DRILLER: Ron Hook

F&ME REPRESENTATIVE: Jeff Leary

DRILLING METHOD: Direct Push - Geoprobe 7822DT

SAMPLING METHOD: 60" Microcore Tube

BORING LOCATION: See Boring Location Dwg.

DATE STARTED: 6/1/2023

DATE COMPLETED: 6/1/2023

WATER LEVEL (T.O.B): None

TOTAL BORING DEPTH: 10.0'

DRILLING DETAILS

MATERIAL DESCRIPTION

Depth
(ft)

Sample Interval
for OVA

OVA
(ppm)

DESCRIPTION

Notes

Depth
(ft)

| | | | | | |
|----|------------|-----|--|--------------------|----|
| | 3"-2.5' | 1.3 | Forrest floor with ~ 3" topsoil/root matter ~1' Red silty/clayey F/M SAND | | |
| | 2.5'-5.0' | 1.7 | ~3' F/M sandy CLAY with a seam of quartz fragments @~4.0' (Slightly Dense) | ~4.0' Recov. Moist | |
| 5 | 5.0'-7.5' | 0.8 | SAME from 5'-9', but no quartz fragments | 5' Recov. Moist | 5 |
| | 7.5'-10.0' | 0.8 | From 9.0'-10.0' Lt. Red clayey/silty F/M SAND | | 10 |
| 10 | | | B.T. @ 10.0' Soil Sample collected from 2.5'-5.0', No water sample | | |
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BORING LOG: B-2

PROJECT: Phase II ESA - CCR CM 8 - Track 571

LOCATION: 160 Crews Drive, Lexington, SC

PROJECT NUMBER: G5662.030

DRILLING CONTRACTOR: W. Walker Environmental Services, LLC

DRILLER: Ron Hook

F&ME REPRESENTATIVE: Jeff Leary

DRILLING METHOD: Direct Push - Geoprobe 7822DT

SAMPLING METHOD: 60" Microcore Tube

BORING LOCATION: See Boring Location Dwg.

DATE STARTED: 6/1/2023

DATE COMPLETED: 6/1/2023

WATER LEVEL (T.O.B) None

TOTAL BORING DEPTH: 10.0'

DRILLING DETAILS

MATERIAL DESCRIPTION

| Depth (ft) | Sample Interval for OVA | OVA (ppm) | DESCRIPTION | Notes | Depth (ft) |
|------------|-------------------------|-----------|--|---------------------|------------|
| | 3"-2.5' | 0.9 | Forrest floor with ~ 3" topsoil/root matter | | |
| | | | | | |
| | 2.5'-5.0' | 0.8 | Red F/M sandy <u>CLAY</u> (slightly dense) | ~4.75' Recov. Moist | |
| 5 | | | | | 5 |
| | 5.0'-7.5' | 1.0 | From 5.0'-7.5' SAME but with a seam around 6' containing some large pieces of quartz fragments | 5' Recov. Moist | |
| | | | | Hard probing | |
| | 7.5'-10.0' | 0.7 | From 7.5'to 10.0' Very lt. red (F) sandy <u>SILT</u> | | |
| 10 | | | B.T. @ 10.0' | | 10 |
| | | | Soil Sample collected from 5.0 - 7.5', No water sample | | |
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BORING LOG: B-3

PROJECT: Phase II ESA - CCR CM 8 - Track 571

LOCATION: 160 Crews Drive, Lexington, SC

PROJECT NUMBER: G5662.030

DRILLING CONTRACTOR: W. Walker Environmental Services, LLC

DRILLER: Ron Hook

F&ME REPRESENTATIVE: Jeff Leary

DRILLING METHOD: Direct Push - Geoprobe 7822DT

SAMPLING METHOD: 60" Microcore Tube

BORING LOCATION: See Boring Location Dwg.

DATE STARTED: 6/1/2023

DATE COMPLETED: 6/1/2023

WATER LEVEL (T.O.B): None

TOTAL BORING DEPTH: 10.0'

DRILLING DETAILS

MATERIAL DESCRIPTION

Depth
(ft)

Sample Interval
for OVA

OVA
(ppm)

DESCRIPTION

Notes

Depth
(ft)

| | | | | | |
|----|------------|-----|--|------------------------|----|
| | 4"-2.5' | 1.1 | Forrest floor with ~ 4" topsoil/root matter From 4"~1.5' Dark Red F/M sandy <u>CLAY</u> | ~4.75' Recov. Moist | |
| | 2.5'-5.0' | 0.8 | From 1.5' to 5.0' SAME but a light red color and with a seam of large pieces of quartz @ ~4.5' | | |
| 5 | 5.0'-7.5' | 2.1 | White & Red with some purple <u>SILT</u> | 5' Recov. Moist | 5 |
| | 7.5'-10.0' | 1.7 | From 9.5'-10.0' some partial weathered rock added/cementitious silt | | |
| 10 | | | B.T. @ 10.0' Soil Sample collected from 5.0'-7.5', No water sample SOIL DUPLICATE SAMPLE | | 10 |
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Attachment #3

Laboratory Deliverable Package

ANALYTICAL REPORT

CLIENT

F&ME Consultants, Inc.
1825 Blanding Street
Columbia SC 29201

ATTENTION

Christine Cafagna

PROJECT ID

I-26 Widening-Crews Drive Phase II ESA

LABORATORY REPORT NUMBER

2306155

DATE

June 07, 2023

Primary Data Review By



Chris Pafford

Project Manager, AES

Secondary Data Review By

Ashley Amick

Project Manager, Access
Analytical

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Analytical Environmental Services Inc. (AES Inc), 3080 Presidential Drive, Atlanta, GA 30340.
- AES is SCDHEC certified laboratory # 98016, NCDENR certified lab # 562, GA certified lab # FL-E87582, NELAP certified laboratory # E87582
- AIHA-LAP, LLC Laboratory ID:100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination.
- Local support services for this project are provided by Access Analytical, Inc. Access Analytical is a representative of AES serving client in the SC/NC/GA areas. All questions regarding this report should be

directed

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-001

Client Sample ID: B-1 (2.5-5.0)
Collection Date: 6/1/2023 11:20:00 AM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260D | | | | (SW5035) | | | | | |
| 1,1,1-Trichloroethane | BRL | | 1.1 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,1,2,2-Tetrachloroethane | BRL | | 0.96 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,1,2-Trichloroethane | BRL | | 1.2 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,1-Dichloroethane | BRL | | 1.4 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,1-Dichloroethene | BRL | | 1.2 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,2,4-Trichlorobenzene | BRL | | 2.0 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,2-Dibromo-3-chloropropane | BRL | | 2.0 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,2-Dibromoethane | BRL | | 0.89 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,2-Dichlorobenzene | BRL | | 1.2 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,2-Dichloroethane | BRL | | 1.4 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,2-Dichloropropane | BRL | | 1.1 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,3-Dichlorobenzene | BRL | | 1.7 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 1,4-Dichlorobenzene | BRL | | 1.6 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 2-Butanone | BRL | | 2.3 | 51 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 2-Hexanone | BRL | | 4.2 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| 4-Methyl-2-pentanone | BRL | | 2.6 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Acetone | BRL | | 25 | 100 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Benzene | BRL | | 0.97 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Bromodichloromethane | BRL | | 1.2 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Bromoform | BRL | | 1.1 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Bromomethane | BRL | | 1.6 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Carbon disulfide | BRL | | 2.3 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Carbon tetrachloride | BRL | | 1.1 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Chlorobenzene | BRL | | 0.97 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Chloroethane | BRL | | 1.7 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Chloroform | BRL | | 1.2 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Chloromethane | BRL | | 1.1 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| cis-1,2-Dichloroethene | BRL | | 1.2 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| cis-1,3-Dichloropropene | BRL | | 0.98 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Cyclohexane | BRL | | 2.0 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Dibromochloromethane | BRL | | 0.96 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Dichlorodifluoromethane | BRL | | 2.0 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Ethylbenzene | BRL | | 1.0 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Freon-113 | BRL | | 1.6 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Isopropylbenzene | BRL | | 1.2 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| m,p-Xylene | BRL | | 2.6 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Methyl acetate | BRL | | 1.7 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Methyl tert-butyl ether | BRL | | 1.4 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Methylcyclohexane | BRL | | 1.9 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Methylene chloride | BRL | | 2.5 | 21 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Naphthalene | BRL | | 2.7 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| o-Xylene | BRL | | 1.4 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Styrene | BRL | | 2.9 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

F Analyzed in the lab which is a deviation from the method

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-001

Client Sample ID: B-1 (2.5-5.0)
Collection Date: 6/1/2023 11:20:00 AM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|---|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260D (SW5035) | | | | | | | | | |
| Tetrachloroethene | BRL | | 1.1 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Toluene | BRL | | 1.2 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| trans-1,2-Dichloroethene | BRL | | 1.1 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| trans-1,3-Dichloropropene | BRL | | 0.92 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Trichloroethene | BRL | | 1.2 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Trichlorofluoromethane | BRL | | 1.4 | 5.1 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Vinyl chloride | BRL | | 1.4 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:07 | RC |
| Surr: 4-Bromofluorobenzene | 100 | | 0 | 63-123 | %REC | 357523 | 1 | 06/05/2023 14:07 | RC |
| Surr: Dibromofluoromethane | 98.3 | | 0 | 72-132 | %REC | 357523 | 1 | 06/05/2023 14:07 | RC |
| Surr: Toluene-d8 | 106 | | 0 | 70-128 | %REC | 357523 | 1 | 06/05/2023 14:07 | RC |
| PERCENT MOISTURE D2216 | | | | | | | | | |
| Percent Moisture | 15.0 | | 0 | 0 | wt% | R517885 | 1 | 06/04/2023 00:00 | JW |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-002

Client Sample ID: B-2 (5.0'-7.5')
Collection Date: 6/1/2023 11:30:00 AM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260D | | | | (SW5035) | | | | | |
| 1,1,1-Trichloroethane | BRL | | 1.0 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,1,2,2-Tetrachloroethane | BRL | | 0.87 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,1,2-Trichloroethane | BRL | | 1.1 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,1-Dichloroethane | BRL | | 1.2 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,1-Dichloroethene | BRL | | 1.0 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,2,4-Trichlorobenzene | BRL | | 1.8 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,2-Dibromo-3-chloropropane | BRL | | 1.8 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,2-Dibromoethane | BRL | | 0.82 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,2-Dichlorobenzene | BRL | | 1.1 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,2-Dichloroethane | BRL | | 1.3 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,2-Dichloropropane | BRL | | 0.99 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,3-Dichlorobenzene | BRL | | 1.5 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 1,4-Dichlorobenzene | BRL | | 1.5 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 2-Butanone | BRL | | 2.1 | 47 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 2-Hexanone | BRL | | 3.8 | 9.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| 4-Methyl-2-pentanone | BRL | | 2.4 | 9.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Acetone | BRL | | 23 | 94 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Benzene | BRL | | 0.88 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Bromodichloromethane | BRL | | 1.1 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Bromoform | BRL | | 1.0 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Bromomethane | BRL | | 1.5 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Carbon disulfide | BRL | | 2.1 | 9.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Carbon tetrachloride | BRL | | 0.99 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Chlorobenzene | BRL | | 0.88 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Chloroethane | BRL | | 1.6 | 9.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Chloroform | BRL | | 1.1 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Chloromethane | BRL | | 0.97 | 9.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| cis-1,2-Dichloroethene | BRL | | 1.1 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| cis-1,3-Dichloropropene | BRL | | 0.89 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Cyclohexane | BRL | | 1.8 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Dibromochloromethane | BRL | | 0.87 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Dichlorodifluoromethane | BRL | | 1.8 | 9.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Ethylbenzene | BRL | | 0.94 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Freon-113 | BRL | | 1.5 | 9.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Isopropylbenzene | BRL | | 1.1 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| m,p-Xylene | BRL | | 2.3 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Methyl acetate | BRL | | 1.5 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Methyl tert-butyl ether | BRL | | 1.3 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Methylcyclohexane | BRL | | 1.7 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Methylene chloride | BRL | | 2.3 | 19 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Naphthalene | BRL | | 2.5 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| o-Xylene | BRL | | 1.2 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Styrene | BRL | | 2.7 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

F Analyzed in the lab which is a deviation from the method

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-002

Client Sample ID: B-2 (5.0'-7.5')
Collection Date: 6/1/2023 11:30:00 AM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|---|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260D (SW5035) | | | | | | | | | |
| Tetrachloroethene | BRL | | 1.0 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Toluene | BRL | | 1.1 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| trans-1,2-Dichloroethene | BRL | | 0.97 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| trans-1,3-Dichloropropene | BRL | | 0.83 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Trichloroethene | BRL | | 1.0 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Trichlorofluoromethane | BRL | | 1.3 | 4.7 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Vinyl chloride | BRL | | 1.3 | 9.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:31 | RC |
| Surr: 4-Bromofluorobenzene | 98.9 | | 0 | 63-123 | %REC | 357523 | 1 | 06/05/2023 14:31 | RC |
| Surr: Dibromofluoromethane | 98.3 | | 0 | 72-132 | %REC | 357523 | 1 | 06/05/2023 14:31 | RC |
| Surr: Toluene-d8 | 101 | | 0 | 70-128 | %REC | 357523 | 1 | 06/05/2023 14:31 | RC |
| PERCENT MOISTURE D2216 | | | | | | | | | |
| Percent Moisture | 12.7 | | 0 | 0 | wt% | R517885 | 1 | 06/04/2023 00:00 | JW |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-003

Client Sample ID: B-3 (5.0'-7.5')
Collection Date: 6/1/2023 11:40:00 AM
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260D | | | | (SW5035) | | | | | |
| 1,1,1-Trichloroethane | BRL | | 0.96 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,1,2,2-Tetrachloroethane | BRL | | 0.83 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,1,2-Trichloroethane | BRL | | 1.0 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,1-Dichloroethane | BRL | | 1.2 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,1-Dichloroethene | BRL | | 0.99 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,2,4-Trichlorobenzene | BRL | | 1.7 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,2-Dibromo-3-chloropropane | BRL | | 1.7 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,2-Dibromoethane | BRL | | 0.77 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,2-Dichlorobenzene | BRL | | 1.0 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,2-Dichloroethane | BRL | | 1.2 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,2-Dichloropropane | BRL | | 0.94 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,3-Dichlorobenzene | BRL | | 1.4 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 1,4-Dichlorobenzene | BRL | | 1.4 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 2-Butanone | BRL | | 2.0 | 44 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 2-Hexanone | BRL | | 3.6 | 8.9 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| 4-Methyl-2-pentanone | BRL | | 2.3 | 8.9 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Acetone | BRL | | 21 | 89 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Benzene | BRL | | 0.83 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Bromodichloromethane | BRL | | 1.0 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Bromoform | BRL | | 0.98 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Bromomethane | BRL | | 1.4 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Carbon disulfide | BRL | | 2.0 | 8.9 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Carbon tetrachloride | BRL | | 0.94 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Chlorobenzene | BRL | | 0.83 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Chloroethane | BRL | | 1.5 | 8.9 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Chloroform | BRL | | 1.0 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Chloromethane | BRL | | 0.92 | 8.9 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| cis-1,2-Dichloroethene | BRL | | 1.0 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| cis-1,3-Dichloropropene | BRL | | 0.84 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Cyclohexane | BRL | | 1.7 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Dibromochloromethane | BRL | | 0.83 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Dichlorodifluoromethane | BRL | | 1.7 | 8.9 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Ethylbenzene | BRL | | 0.89 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Freon-113 | BRL | | 1.4 | 8.9 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Isopropylbenzene | BRL | | 1.0 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| m,p-Xylene | BRL | | 2.2 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Methyl acetate | BRL | | 1.5 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Methyl tert-butyl ether | BRL | | 1.3 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Methylcyclohexane | BRL | | 1.6 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Methylene chloride | BRL | | 2.1 | 18 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Naphthalene | BRL | | 2.4 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| o-Xylene | BRL | | 1.2 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Styrene | BRL | | 2.5 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

F Analyzed in the lab which is a deviation from the method

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative

| | | | |
|---------------------|--|--------------------------|----------------------|
| Client: | F&ME Consultants, Inc. | Client Sample ID: | B-3 (5.0'-7.5') |
| Project Name | I-26 Widening-Crews Drive Phase II ESA | Collection Date: | 6/1/2023 11:40:00 AM |
| Lab ID: | 2306155-003 | Matrix: | Soil |

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|---|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260D (SW5035) | | | | | | | | | |
| Tetrachloroethene | BRL | | 0.98 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Toluene | BRL | | 1.0 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| trans-1,2-Dichloroethene | BRL | | 0.91 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| trans-1,3-Dichloropropene | BRL | | 0.79 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Trichloroethene | BRL | | 0.99 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Trichlorofluoromethane | BRL | | 1.3 | 4.4 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Vinyl chloride | BRL | | 1.2 | 8.9 | ug/Kg-dry | 357523 | 1 | 06/05/2023 14:55 | RC |
| Surr: 4-Bromofluorobenzene | 99.3 | | 0 | 63-123 | %REC | 357523 | 1 | 06/05/2023 14:55 | RC |
| Surr: Dibromofluoromethane | 96.8 | | 0 | 72-132 | %REC | 357523 | 1 | 06/05/2023 14:55 | RC |
| Surr: Toluene-d8 | 100 | | 0 | 70-128 | %REC | 357523 | 1 | 06/05/2023 14:55 | RC |
| PERCENT MOISTURE D2216 | | | | | | | | | |
| Percent Moisture | 16.2 | | 0 | 0 | wt% | R517885 | 1 | 06/04/2023 00:00 | JW |

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

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-004

Client Sample ID: DUP
Collection Date: 6/1/2023
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260D | | | | (SW5035) | | | | | |
| 1,1,1-Trichloroethane | BRL | | 1.1 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,1,2,2-Tetrachloroethane | BRL | | 0.94 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,1,2-Trichloroethane | BRL | | 1.1 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,1-Dichloroethane | BRL | | 1.3 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,1-Dichloroethene | BRL | | 1.1 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,2,4-Trichlorobenzene | BRL | | 1.9 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,2-Dibromo-3-chloropropane | BRL | | 1.9 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,2-Dibromoethane | BRL | | 0.88 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,2-Dichlorobenzene | BRL | | 1.2 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,2-Dichloroethane | BRL | | 1.4 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,2-Dichloropropane | BRL | | 1.1 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,3-Dichlorobenzene | BRL | | 1.6 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 1,4-Dichlorobenzene | BRL | | 1.6 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 2-Butanone | BRL | | 2.3 | 50 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 2-Hexanone | BRL | | 4.1 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| 4-Methyl-2-pentanone | BRL | | 2.6 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Acetone | BRL | | 24 | 100 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Benzene | BRL | | 0.95 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Bromodichloromethane | BRL | | 1.2 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Bromoform | BRL | | 1.1 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Bromomethane | BRL | | 1.6 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Carbon disulfide | BRL | | 2.2 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Carbon tetrachloride | BRL | | 1.1 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Chlorobenzene | BRL | | 0.95 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Chloroethane | BRL | | 1.7 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Chloroform | BRL | | 1.2 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Chloromethane | BRL | | 1.0 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| cis-1,2-Dichloroethene | BRL | | 1.2 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| cis-1,3-Dichloropropene | BRL | | 0.96 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Cyclohexane | BRL | | 2.0 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Dibromochloromethane | BRL | | 0.94 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Dichlorodifluoromethane | BRL | | 2.0 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Ethylbenzene | BRL | | 1.0 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Freon-113 | BRL | | 1.6 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Isopropylbenzene | BRL | | 1.1 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| m,p-Xylene | BRL | | 2.5 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Methyl acetate | BRL | | 1.7 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Methyl tert-butyl ether | BRL | | 1.4 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Methylcyclohexane | BRL | | 1.8 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Methylene chloride | BRL | | 2.4 | 20 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Naphthalene | BRL | | 2.7 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| o-Xylene | BRL | | 1.3 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Styrene | BRL | | 2.9 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

F Analyzed in the lab which is a deviation from the method

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-004

Client Sample ID: DUP
Collection Date: 6/1/2023
Matrix: Soil

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|---|--------|------|------|-----------------|-----------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS SW8260D (SW5035) | | | | | | | | | |
| Tetrachloroethene | BRL | | 1.1 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Toluene | BRL | | 1.2 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| trans-1,2-Dichloroethene | BRL | | 1.0 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| trans-1,3-Dichloropropene | BRL | | 0.90 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Trichloroethene | BRL | | 1.1 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Trichlorofluoromethane | BRL | | 1.4 | 5.0 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Vinyl chloride | BRL | | 1.4 | 10 | ug/Kg-dry | 357523 | 1 | 06/05/2023 15:19 | RC |
| Surr: 4-Bromofluorobenzene | 100 | | 0 | 63-123 | %REC | 357523 | 1 | 06/05/2023 15:19 | RC |
| Surr: Dibromofluoromethane | 98.5 | | 0 | 72-132 | %REC | 357523 | 1 | 06/05/2023 15:19 | RC |
| Surr: Toluene-d8 | 102 | | 0 | 70-128 | %REC | 357523 | 1 | 06/05/2023 15:19 | RC |
| PERCENT MOISTURE D2216 | | | | | | | | | |
| Percent Moisture | 16.2 | | 0 | 0 | wt% | R517885 | 1 | 06/04/2023 00:00 | JW |

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- F Analyzed in the lab which is a deviation from the method

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-005

Client Sample ID: Equip Blank
Collection Date: 6/1/2023 8:02:00 AM
Matrix: Aqueous

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|----------------|------------------|-------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS | | | SW8260D | (SW5030B) | | | | | |
| 1,1,1-Trichloroethane | BRL | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,1,2,2-Tetrachloroethane | BRL | | 0.21 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,1,2-Trichloroethane | BRL | | 0.25 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,1-Dichloroethane | BRL | | 0.28 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,1-Dichloroethene | BRL | | 0.31 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,2,4-Trichlorobenzene | BRL | | 0.33 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,2-Dibromo-3-chloropropane | BRL | | 0.62 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,2-Dibromoethane | BRL | | 0.20 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,2-Dichlorobenzene | BRL | | 0.47 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,2-Dichloroethane | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,2-Dichloropropane | BRL | | 0.73 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,3-Dichlorobenzene | BRL | | 0.34 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 1,4-Dichlorobenzene | BRL | | 0.55 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 2-Butanone | BRL | | 6.7 | 10 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 2-Hexanone | BRL | | 2.1 | 10 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| 4-Methyl-2-pentanone | BRL | | 2.2 | 10 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Acetone | BRL | | 5.8 | 20 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Benzene | 1.2 | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Bromodichloromethane | BRL | | 0.28 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Bromoform | BRL | | 0.62 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Bromomethane | BRL | | 0.52 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Carbon disulfide | BRL | | 0.65 | 5.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Carbon tetrachloride | BRL | | 0.45 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Chlorobenzene | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Chloroethane | BRL | | 0.36 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Chloroform | BRL | | 0.28 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Chloromethane | BRL | | 0.31 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| cis-1,2-Dichloroethene | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| cis-1,3-Dichloropropene | BRL | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Cyclohexane | BRL | | 0.66 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Dibromochloromethane | BRL | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Dichlorodifluoromethane | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Ethylbenzene | 0.57 | J | 0.24 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Freon-113 | BRL | | 0.28 | 5.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Isopropylbenzene | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| m,p-Xylene | 1.8 | | 0.49 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Methyl acetate | BRL | | 0.88 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Methyl tert-butyl ether | BRL | | 0.23 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Methylcyclohexane | BRL | | 0.27 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Methylene chloride | BRL | | 2.4 | 5.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Naphthalene | BRL | | 1.8 | 5.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| o-Xylene | 1.1 | | 0.27 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Styrene | BRL | | 0.32 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

F Analyzed in the lab which is a deviation from the method

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative

| | | | |
|---------------------|--|--------------------------|---------------------|
| Client: | F&ME Consultants, Inc. | Client Sample ID: | Equip Blank |
| Project Name | I-26 Widening-Crews Drive Phase II ESA | Collection Date: | 6/1/2023 8:02:00 AM |
| Lab ID: | 2306155-005 | Matrix: | Aqueous |

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|----------------|------|------------------|-------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS | | SW8260D | | (SW5030B) | | | | | |
| Tetrachloroethene | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Toluene | 6.3 | | 0.33 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| trans-1,2-Dichloroethene | BRL | | 0.31 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| trans-1,3-Dichloropropene | BRL | | 0.29 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Trichloroethene | BRL | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Trichlorofluoromethane | BRL | | 0.24 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Vinyl chloride | BRL | | 0.33 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 14:07 | AV |
| Surr: 4-Bromofluorobenzene | 96.4 | | 0 | 70-126 | %REC | 357557 | 1 | 06/05/2023 14:07 | AV |
| Surr: Dibromofluoromethane | 103 | | 0 | 77-121 | %REC | 357557 | 1 | 06/05/2023 14:07 | AV |
| Surr: Toluene-d8 | 98.5 | | 0 | 78.6-119 | %REC | 357557 | 1 | 06/05/2023 14:07 | AV |

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

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-006

Client Sample ID: Trip Blank
Collection Date: 6/1/2023
Matrix: Trip Blank

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|------|----------------|------------------|-------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS | | | SW8260D | (SW5030B) | | | | | |
| 1,1,1-Trichloroethane | BRL | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,1,2,2-Tetrachloroethane | BRL | | 0.21 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,1,2-Trichloroethane | BRL | | 0.25 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,1-Dichloroethane | BRL | | 0.28 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,1-Dichloroethene | BRL | | 0.31 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,2,4-Trichlorobenzene | BRL | | 0.33 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,2-Dibromo-3-chloropropane | BRL | | 0.62 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,2-Dibromoethane | BRL | | 0.20 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,2-Dichlorobenzene | BRL | | 0.47 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,2-Dichloroethane | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,2-Dichloropropane | BRL | | 0.73 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,3-Dichlorobenzene | BRL | | 0.34 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 1,4-Dichlorobenzene | BRL | | 0.55 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 2-Butanone | BRL | | 6.7 | 10 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 2-Hexanone | BRL | | 2.1 | 10 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| 4-Methyl-2-pentanone | BRL | | 2.2 | 10 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Acetone | 14 | J | 5.8 | 20 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Benzene | BRL | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Bromodichloromethane | BRL | | 0.28 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Bromoform | BRL | | 0.62 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Bromomethane | BRL | | 0.52 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Carbon disulfide | BRL | | 0.65 | 5.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Carbon tetrachloride | BRL | | 0.45 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Chlorobenzene | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Chloroethane | BRL | | 0.36 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Chloroform | BRL | | 0.28 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Chloromethane | BRL | | 0.31 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| cis-1,2-Dichloroethene | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| cis-1,3-Dichloropropene | BRL | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Cyclohexane | BRL | | 0.66 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Dibromochloromethane | BRL | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Dichlorodifluoromethane | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Ethylbenzene | BRL | | 0.24 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Freon-113 | BRL | | 0.28 | 5.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Isopropylbenzene | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| m,p-Xylene | BRL | | 0.49 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Methyl acetate | BRL | | 0.88 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Methyl tert-butyl ether | BRL | | 0.23 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Methylcyclohexane | BRL | | 0.27 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Methylene chloride | BRL | | 2.4 | 5.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Naphthalene | BRL | | 1.8 | 5.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| o-Xylene | BRL | | 0.27 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Styrene | BRL | | 0.32 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

F Analyzed in the lab which is a deviation from the method

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Lab ID: 2306155-006

Client Sample ID: Trip Blank
Collection Date: 6/1/2023
Matrix: Trip Blank

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | DF | Date Analyzed | Analyst |
|--|--------|----------------|------|------------------|-------|---------|----|------------------|---------|
| Volatile Organic Compounds by GC/MS | | SW8260D | | (SW5030B) | | | | | |
| Tetrachloroethene | BRL | | 0.29 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Toluene | BRL | | 0.33 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| trans-1,2-Dichloroethene | BRL | | 0.31 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| trans-1,3-Dichloropropene | BRL | | 0.29 | 2.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Trichloroethene | BRL | | 0.26 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Trichlorofluoromethane | BRL | | 0.24 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Vinyl chloride | BRL | | 0.33 | 1.0 | ug/L | 357557 | 1 | 06/05/2023 13:42 | AV |
| Surr: 4-Bromofluorobenzene | 95 | | 0 | 70-126 | %REC | 357557 | 1 | 06/05/2023 13:42 | AV |
| Surr: Dibromofluoromethane | 102 | | 0 | 77-121 | %REC | 357557 | 1 | 06/05/2023 13:42 | AV |
| Surr: Toluene-d8 | 98.9 | | 0 | 78.6-119 | %REC | 357557 | 1 | 06/05/2023 13:42 | AV |

Qualifiers: * Value exceeds maximum contaminant level

BRL Not detected at MDL

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

F Analyzed in the lab which is a deviation from the method

E Estimated value above quantitation range

S Spike Recovery outside limits due to matrix

J Estimated value detected below Reporting Limit

> Greater than Result value

< Less than Result value

Narr See case narrative

SUMMARY OF ANALYTES DETECTED

| Analyses | Result | Qual | MDL | Reporting Limit | Units | BatchID | Dilution |
|---|--------|------|------|-----------------|-------|---------|----------|
| Client Sample ID: B-1 (2.5-5.0) Lab ID: 2306155-001 Collection Date: 6/1/2023 11:20:00 AM Matrix: Soil | | | | | | | |
| PERCENT MOISTURE D2216 | | | | | | | |
| Percent Moisture | 15.0 | 0 | 0 | 0 | wt% | R517885 | 1 |
| Client Sample ID: B-2 (5.0'-7.5') Lab ID: 2306155-002 Collection Date: 6/1/2023 11:30:00 AM Matrix: Soil | | | | | | | |
| PERCENT MOISTURE D2216 | | | | | | | |
| Percent Moisture | 12.7 | 0 | 0 | 0 | wt% | R517885 | 1 |
| Client Sample ID: B-3 (5.0'-7.5') Lab ID: 2306155-003 Collection Date: 6/1/2023 11:40:00 AM Matrix: Soil | | | | | | | |
| PERCENT MOISTURE D2216 | | | | | | | |
| Percent Moisture | 16.2 | 0 | 0 | 0 | wt% | R517885 | 1 |
| Client Sample ID: DUP Lab ID: 2306155-004 Collection Date: 6/1/2023 Matrix: Soil | | | | | | | |
| PERCENT MOISTURE D2216 | | | | | | | |
| Percent Moisture | 16.2 | 0 | 0 | 0 | wt% | R517885 | 1 |
| Client Sample ID: Equip Blank Lab ID: 2306155-005 Collection Date: 6/1/2023 8:02:00 AM Matrix: Aqueous | | | | | | | |
| Volatile Organic Compounds by GC/MS SW8260D (SW5030B) | | | | | | | |
| Benzene | 1.2 | | 0.26 | 1.0 | ug/L | 357557 | 1 |
| Ethylbenzene | 0.57 | J | 0.24 | 1.0 | ug/L | 357557 | 1 |
| m,p-Xylene | 1.8 | | 0.49 | 1.0 | ug/L | 357557 | 1 |
| o-Xylene | 1.1 | | 0.27 | 1.0 | ug/L | 357557 | 1 |
| Toluene | 6.3 | | 0.33 | 1.0 | ug/L | 357557 | 1 |
| Client Sample ID: Trip Blank Lab ID: 2306155-006 Collection Date: 6/1/2023 Matrix: Trip Blank | | | | | | | |
| Volatile Organic Compounds by GC/MS SW8260D (SW5030B) | | | | | | | |
| Acetone | 14 | J | 5.8 | 20 | ug/L | 357557 | 1 |

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

Clear

Save as

1. Client Name: **Access Analytical, Inc**

AES Work Order Number: **2306155**

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

| | Yes | No | N/A | Details | Comments |
|---|----------------------------------|----------------------------------|----------------------------------|---|----------|
| 3. Shipping container/cooler received in good condition? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/> | |
| 4. Custody seals present on shipping container? | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | | |
| 5. Custody seals intact on shipping container? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | |
| 6. Temperature blanks present? | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | | |
| 7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.] | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | Cooling initiated for recently collected samples / ice present <input type="checkbox"/> | |
| 8. Chain of Custody (COC) present? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 9. Chain of Custody signed, dated, and timed when relinquished and received? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 10. Sampler name and/or signature on COC? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 11. Were all samples received within holding time? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 12. TAT marked on the COC? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/> | |

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

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MW 6/2/23

| | Yes | No | N/A | Details | Comments |
|---|----------------------------------|----------------------------------|----------------------------------|---|----------|
| 16. Were sample containers intact upon receipt? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 17. Custody seals present on sample containers? | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> | | |
| 18. Custody seals intact on sample containers? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | |
| 19. Do sample container labels match the COC? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/> | |
| 20. Are analyses requested indicated on the COC? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 21. Were all of the samples listed on the COC received? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/> | |
| 22. Was the sample collection date/time noted? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 23. Did we receive sufficient sample volume for indicated analyses? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 24. Were samples received in appropriate containers? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 25. Were VOA samples received without headspace (< 1/4" bubble)? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | |
| 26. Were trip blanks submitted? | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/> | |

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MW 6/2/23

This section only applies to samples where pH can be checked at Sample Receipt.

| | Yes | No | N/A | Details | Comments |
|---|-----------------------|-----------------------|----------------------------------|---------|----------|
| 28. Have containers needing chemical preservation been checked? * | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | |
| 29. Containers meet preservation guidelines? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | |
| 30. Was pH adjusted at Sample Receipt? | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | |

* 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 28-30 (dated initials). MW 6/2/23

Locked

Client: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357523

| | | | | | | | | | | | |
|-----------------------------|--|------------------------|-----------|-------------|------|----------------------------------|-------------------------|-------------|------|-----------|------|
| Sample ID: MB-357523 | Client ID: | Units: ug/Kg | | | | Prep Date: 06/05/2023 | Run No: 517991 | | | | |
| SampleType: MBLK | TestCode: Volatile Organic Compounds by GC/MS SW8260D | BatchID: 357523 | | | | Analysis Date: 06/05/2023 | Seq No: 12226985 | | | | |
| 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-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 |
| Chloromethane | 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357523

| Sample ID: MB-357523 | Client ID: | Units: ug/Kg | | | | Prep Date: 06/05/2023 | Run No: 517991 | | | | |
|-----------------------------|--|------------------------|-----------|-------------|------|----------------------------------|-------------------------|-------------|------|-----------|------|
| SampleType: MBLK | TestCode: Volatile Organic Compounds by GC/MS SW8260D | BatchID: 357523 | | | | Analysis Date: 06/05/2023 | Seq No: 12226985 | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
| 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 | | | | | | | | | |
| Naphthalene | 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 | 10 | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 50.14 | 0 | 50.00 | | 100 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 49.05 | 0 | 50.00 | | 98.1 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 49.27 | 0 | 50.00 | | 98.5 | 70 | 130 | | | | |

| | | | | | | |
|-------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357523

| | | | | | | | | | | | |
|------------------------------|--|------------------------|-----------|-------------|------|----------------------------------|-------------------------|-------------|------|-----------|------|
| Sample ID: LCS-357523 | Client ID: | Units: ug/Kg | | | | Prep Date: 06/05/2023 | Run No: 517991 | | | | |
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260D | BatchID: 357523 | | | | Analysis Date: 06/05/2023 | Seq No: 12226986 | | | | |
| 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 | 55.60 | 5.0 | 50.00 | | 111 | 70 | 130 | | | | |
| 1,1,2,2-Tetrachloroethane | 47.93 | 5.0 | 50.00 | | 95.9 | 70 | 130 | | | | |
| 1,1,2-Trichloroethane | 54.67 | 5.0 | 50.00 | | 109 | 70 | 130 | | | | |
| 1,1-Dichloroethane | 54.55 | 5.0 | 50.00 | | 109 | 70 | 130 | | | | |
| 1,1-Dichloroethene | 58.01 | 5.0 | 50.00 | | 116 | 70 | 130 | | | | |
| 1,2,4-Trichlorobenzene | 45.84 | 5.0 | 50.00 | | 91.7 | 70 | 130 | | | | |
| 1,2-Dibromo-3-chloropropane | 46.11 | 5.0 | 50.00 | | 92.2 | 70 | 130 | | | | |
| 1,2-Dibromoethane | 51.73 | 5.0 | 50.00 | | 103 | 70 | 130 | | | | |
| 1,2-Dichlorobenzene | 48.21 | 5.0 | 50.00 | | 96.4 | 70 | 130 | | | | |
| 1,2-Dichloroethane | 52.01 | 5.0 | 50.00 | | 104 | 70 | 130 | | | | |
| 1,2-Dichloropropane | 53.52 | 5.0 | 50.00 | | 107 | 70 | 130 | | | | |
| 1,3-Dichlorobenzene | 48.08 | 5.0 | 50.00 | | 96.2 | 70 | 130 | | | | |
| 1,4-Dichlorobenzene | 47.78 | 5.0 | 50.00 | | 95.6 | 70 | 130 | | | | |
| Benzene | 52.16 | 5.0 | 50.00 | | 104 | 70 | 130 | | | | |
| Bromodichloromethane | 54.17 | 5.0 | 50.00 | | 108 | 70 | 130 | | | | |
| Bromoform | 48.88 | 5.0 | 50.00 | | 97.8 | 70 | 130 | | | | |
| Carbon tetrachloride | 53.75 | 5.0 | 50.00 | | 108 | 70 | 130 | | | | |
| Chlorobenzene | 51.72 | 5.0 | 50.00 | | 103 | 70 | 130 | | | | |
| Chloroform | 53.63 | 5.0 | 50.00 | | 107 | 70 | 130 | | | | |
| cis-1,2-Dichloroethene | 54.17 | 5.0 | 50.00 | | 108 | 70 | 130 | | | | |
| cis-1,3-Dichloropropene | 54.11 | 5.0 | 50.00 | | 108 | 70 | 130 | | | | |
| Dibromochloromethane | 52.20 | 5.0 | 50.00 | | 104 | 70 | 130 | | | | |
| Ethylbenzene | 50.04 | 5.0 | 50.00 | | 100 | 70 | 130 | | | | |
| Isopropylbenzene | 47.44 | 5.0 | 50.00 | | 94.9 | 70 | 130 | | | | |
| m,p-Xylene | 100.3 | 5.0 | 100.0 | | 100 | 70 | 130 | | | | |
| Methylene chloride | 61.76 | 20 | 50.00 | | 124 | 70 | 130 | | | | |
| Naphthalene | 46.24 | 5.0 | 50.00 | | 92.5 | 70 | 130 | | | | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT**BatchID: 357523**

| | | | | | | | | | | | |
|------------------------------|--|-----------|-----------|-------------|------|------------------------|----------------------------------|-------------------------|------|-----------|------|
| Sample ID: LCS-357523 | Client ID: | | | | | Units: ug/Kg | Prep Date: 06/05/2023 | Run No: 517991 | | | |
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS SW8260D | | | | | BatchID: 357523 | Analysis Date: 06/05/2023 | Seq No: 12226986 | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|------|----|-----|--|--|--|--|
| o-Xylene | 50.79 | 5.0 | 50.00 | | 102 | 70 | 130 | | | | |
| Styrene | 52.10 | 5.0 | 50.00 | | 104 | 70 | 130 | | | | |
| Tetrachloroethene | 49.09 | 5.0 | 50.00 | | 98.2 | 70 | 130 | | | | |
| Toluene | 52.73 | 5.0 | 50.00 | | 105 | 70 | 130 | | | | |
| trans-1,2-Dichloroethene | 58.01 | 5.0 | 50.00 | | 116 | 70 | 130 | | | | |
| trans-1,3-Dichloropropene | 54.44 | 5.0 | 50.00 | | 109 | 70 | 130 | | | | |
| Trichloroethene | 55.16 | 5.0 | 50.00 | | 110 | 70 | 130 | | | | |
| Vinyl chloride | 54.50 | 10 | 50.00 | | 109 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 50.89 | 0 | 50.00 | | 102 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 49.52 | 0 | 50.00 | | 99.0 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 50.05 | 0 | 50.00 | | 100 | 70 | 130 | | | | |

| | | | | | | | | | | | |
|----------------------------------|--|-----------|-----------|-------------|------|-------------------------|----------------------------------|-------------------------|------|-----------|------|
| Sample ID: 2306068-001AMS | Client ID: | | | | | Units: ug/Kg-dry | Prep Date: 06/05/2023 | Run No: 517991 | | | |
| SampleType: MS | TestCode: Volatile Organic Compounds by GC/MS SW8260D | | | | | BatchID: 357523 | Analysis Date: 06/06/2023 | Seq No: 12228545 | | | |
| 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 | 74.93 | 7.9 | 78.66 | | 95.3 | 60 | 122 | | | | |
| 1,1,2,2-Tetrachloroethane | 66.56 | 7.9 | 78.66 | | 84.6 | 61.3 | 132 | | | | |
| 1,1,2-Trichloroethane | 76.99 | 7.9 | 78.66 | | 97.9 | 61.6 | 129 | | | | |
| 1,1-Dichloroethane | 73.75 | 7.9 | 78.66 | | 93.8 | 57.8 | 124 | | | | |
| 1,1-Dichloroethene | 73.80 | 7.9 | 78.66 | | 93.8 | 55.6 | 135 | | | | |
| 1,2,4-Trichlorobenzene | 63.33 | 7.9 | 78.66 | | 80.5 | 55.3 | 138 | | | | |
| 1,2-Dibromo-3-chloropropane | 68.12 | 7.9 | 78.66 | | 86.6 | 53.1 | 136 | | | | |
| 1,2-Dibromoethane | 71.40 | 7.9 | 78.66 | | 90.8 | 63.5 | 129 | | | | |
| 1,2-Dichlorobenzene | 66.50 | 7.9 | 78.66 | | 84.5 | 60.3 | 127 | | | | |
| 1,2-Dichloroethane | 77.22 | 7.9 | 78.66 | | 98.2 | 58.6 | 127 | | | | |
| 1,2-Dichloropropane | 74.46 | 7.9 | 78.66 | | 94.7 | 59.2 | 124 | | | | |
| 1,3-Dichlorobenzene | 66.01 | 7.9 | 78.66 | | 83.9 | 62.6 | 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357523

| | | | | | | | | | | | |
|----------------------------|--------|---|-----------|-------------|------|------------------|------------|---------------------------|------|------------------|------|
| Sample ID: 2306068-001AMS | | Client ID: | | | | Units: ug/Kg-dry | | Prep Date: 06/05/2023 | | Run No: 517991 | |
| SampleType: MS | | TestCode: Volatile Organic Compounds by GC/MS SW8260D | | | | BatchID: 357523 | | Analysis Date: 06/06/2023 | | Seq No: 12228545 | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
| 1,4-Dichlorobenzene | 65.30 | 7.9 | 78.66 | | 83.0 | 62.4 | 121 | | | | |
| Benzene | 74.44 | 7.9 | 78.66 | | 94.6 | 55.2 | 133 | | | | |
| Bromodichloromethane | 75.98 | 7.9 | 78.66 | | 96.6 | 57.9 | 126 | | | | |
| Bromoform | 73.69 | 7.9 | 78.66 | | 93.7 | 57.7 | 132 | | | | |
| Carbon tetrachloride | 74.99 | 7.9 | 78.66 | | 95.3 | 25.5 | 148 | | | | |
| Chlorobenzene | 68.51 | 7.9 | 78.66 | | 87.1 | 60.2 | 127 | | | | |
| Chloroform | 74.53 | 7.9 | 78.66 | | 94.8 | 56.8 | 120 | | | | |
| cis-1,2-Dichloroethene | 76.67 | 7.9 | 78.66 | | 97.5 | 61.3 | 124 | | | | |
| cis-1,3-Dichloropropene | 77.71 | 7.9 | 78.66 | | 98.8 | 56.1 | 131 | | | | |
| Dibromochloromethane | 72.18 | 7.9 | 78.66 | | 91.8 | 60.1 | 130 | | | | |
| Ethylbenzene | 68.62 | 7.9 | 78.66 | | 87.2 | 58.3 | 135 | | | | |
| Isopropylbenzene | 64.45 | 7.9 | 78.66 | | 81.9 | 59.9 | 135 | | | | |
| m,p-Xylene | 138.5 | 7.9 | 157.3 | | 88.1 | 60.2 | 133 | | | | |
| Methylene chloride | 71.72 | 31 | 78.66 | 4.457 | 85.5 | 57 | 124 | | | | |
| Naphthalene | 65.16 | 7.9 | 78.66 | | 82.8 | 59.3 | 134 | | | | |
| o-Xylene | 69.48 | 7.9 | 78.66 | | 88.3 | 61 | 133 | | | | |
| Styrene | 54.27 | 7.9 | 78.66 | | 69.0 | 62.8 | 134 | | | | |
| Tetrachloroethene | 67.00 | 7.9 | 78.66 | | 85.2 | 61.5 | 126 | | | | |
| Toluene | 74.02 | 7.9 | 78.66 | | 94.1 | 60.2 | 132 | | | | |
| trans-1,2-Dichloroethene | 74.31 | 7.9 | 78.66 | | 94.5 | 60.4 | 124 | | | | |
| trans-1,3-Dichloropropene | 74.88 | 7.9 | 78.66 | | 95.2 | 61.2 | 130 | | | | |
| Trichloroethene | 75.07 | 7.9 | 78.66 | | 95.4 | 60 | 132 | | | | |
| Vinyl chloride | 77.74 | 16 | 78.66 | | 98.8 | 57 | 127 | | | | |
| Surr: 4-Bromofluorobenzene | 82.76 | 0 | 78.66 | | 105 | 63 | 123 | | | | |
| Surr: Dibromofluoromethane | 77.59 | 0 | 78.66 | | 98.6 | 72 | 132 | | | | |
| Surr: Toluene-d8 | 80.43 | 0 | 78.66 | | 102 | 70 | 128 | | | | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357523

| | | | | | | | | | | | |
|-----------------------------|--------|---|-----------|------------------|------|---------------------------|------------|------------------|------|-----------|------|
| Sample ID: 2306068-002ADUP | | Client ID: | | Units: ug/Kg-dry | | Prep Date: 06/05/2023 | | Run No: 517991 | | | |
| SampleType: DUP | | TestCode: Volatile Organic Compounds by GC/MS SW8260D | | BatchID: 357523 | | Analysis Date: 06/06/2023 | | Seq No: 12228544 | | | |
| 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 | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,1,2,2-Tetrachloroethane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,1,2-Trichloroethane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,1-Dichloroethane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,1-Dichloroethene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,2,4-Trichlorobenzene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,2-Dibromo-3-chloropropane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,2-Dibromoethane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,2-Dichlorobenzene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,2-Dichloroethane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,2-Dichloropropane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,3-Dichlorobenzene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 1,4-Dichlorobenzene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| 2-Butanone | BRL | 64 | | | | | | 0 | 0 | 20 | |
| 2-Hexanone | BRL | 13 | | | | | | 0 | 0 | 20 | |
| 4-Methyl-2-pentanone | BRL | 13 | | | | | | 0 | 0 | 20 | |
| Acetone | 68.30 | 130 | | | | | | 0 | 0 | 20 | J |
| Benzene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Bromodichloromethane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Bromoform | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Bromomethane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Carbon disulfide | BRL | 13 | | | | | | 0 | 0 | 20 | |
| Carbon tetrachloride | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Chlorobenzene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Chloroethane | BRL | 13 | | | | | | 0 | 0 | 20 | |
| Chloroform | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Chloromethane | BRL | 13 | | | | | | 0 | 0 | 20 | |

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|-------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357523

| | | | | | | | | | | | |
|----------------------------|--------|---|-----------|-------------|------|------------------|------------|---------------------------|------|------------------|------|
| Sample ID: 2306068-002ADUP | | Client ID: | | | | Units: ug/Kg-dry | | Prep Date: 06/05/2023 | | Run No: 517991 | |
| SampleType: DUP | | TestCode: Volatile Organic Compounds by GC/MS SW8260D | | | | BatchID: 357523 | | Analysis Date: 06/06/2023 | | Seq No: 12228544 | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
| cis-1,2-Dichloroethene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| cis-1,3-Dichloropropene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Cyclohexane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Dibromochloromethane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Dichlorodifluoromethane | BRL | 13 | | | | | | 0 | 0 | 20 | |
| Ethylbenzene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Freon-113 | BRL | 13 | | | | | | 0 | 0 | 20 | |
| Isopropylbenzene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| m,p-Xylene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Methyl acetate | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Methyl tert-butyl ether | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Methylcyclohexane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Methylene chloride | 4.813 | 26 | | | | | | 3.660 | 0 | 20 | J |
| Naphthalene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| o-Xylene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Styrene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Tetrachloroethene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Toluene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| trans-1,2-Dichloroethene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| trans-1,3-Dichloropropene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Trichloroethene | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Trichlorofluoromethane | BRL | 6.4 | | | | | | 0 | 0 | 20 | |
| Vinyl chloride | BRL | 13 | | | | | | 0 | 0 | 20 | |
| Surr: 4-Bromofluorobenzene | 62.62 | 0 | 64.17 | | 97.6 | 63 | 123 | 60.67 | 0 | 0 | |
| Surr: Dibromofluoromethane | 61.67 | 0 | 64.17 | | 96.1 | 72 | 132 | 57.77 | 0 | 0 | |
| Surr: Toluene-d8 | 63.16 | 0 | 64.17 | | 98.4 | 70 | 128 | 60.15 | 0 | 0 | |

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|--------------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357557

| | | | | | | | | | | | |
|-----------------------------|--|----------------|-----------|-------------|------|------------------------|----------------------------------|-------------------------|------|-----------|------|
| Sample ID: MB-357557 | Client ID: | | | | | Units: ug/L | Prep Date: 06/05/2023 | Run No: 518037 | | | |
| SampleType: MBLK | TestCode: Volatile Organic Compounds by GC/MS | SW8260D | | | | BatchID: 357557 | Analysis Date: 06/05/2023 | Seq No: 12228283 | | | |
| 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 | 1.0 |
| 1,1,2,2-Tetrachloroethane | BRL | 1.0 |
| 1,1,2-Trichloroethane | BRL | 1.0 |
| 1,1-Dichloroethane | BRL | 1.0 |
| 1,1-Dichloroethene | BRL | 2.0 |
| 1,2,4-Trichlorobenzene | BRL | 1.0 |
| 1,2-Dibromo-3-chloropropane | BRL | 1.0 |
| 1,2-Dibromoethane | BRL | 1.0 |
| 1,2-Dichlorobenzene | BRL | 1.0 |
| 1,2-Dichloroethane | BRL | 1.0 |
| 1,2-Dichloropropane | BRL | 1.0 |
| 1,3-Dichlorobenzene | BRL | 1.0 |
| 1,4-Dichlorobenzene | BRL | 1.0 |
| 2-Butanone | BRL | 10 |
| 2-Hexanone | BRL | 10 |
| 4-Methyl-2-pentanone | BRL | 10 |
| Acetone | BRL | 20 |
| Benzene | BRL | 1.0 |
| Bromodichloromethane | BRL | 1.0 |
| Bromoform | BRL | 1.0 |
| Bromomethane | BRL | 1.0 |
| Carbon disulfide | BRL | 5.0 |
| Carbon tetrachloride | BRL | 2.0 |
| Chlorobenzene | BRL | 1.0 |
| Chloroethane | BRL | 1.0 |
| Chloroform | BRL | 1.0 |
| Chloromethane | BRL | 1.0 |

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|-------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357557

| | | | | | | | | | | | |
|-----------------------------|--|----------------|------------------------|-------------|--------------------|----------------------------------|-------------------------|-------------|------|-----------|------|
| Sample ID: MB-357557 | Client ID: | | | | Units: ug/L | Prep Date: 06/05/2023 | Run No: 518037 | | | | |
| SampleType: MBLK | TestCode: Volatile Organic Compounds by GC/MS | SW8260D | BatchID: 357557 | | | Analysis Date: 06/05/2023 | Seq No: 12228283 | | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
| cis-1,2-Dichloroethene | BRL | 1.0 | | | | | | | | | |
| cis-1,3-Dichloropropene | BRL | 1.0 | | | | | | | | | |
| Cyclohexane | BRL | 2.0 | | | | | | | | | |
| Dibromochloromethane | BRL | 1.0 | | | | | | | | | |
| Dichlorodifluoromethane | BRL | 1.0 | | | | | | | | | |
| Ethylbenzene | BRL | 1.0 | | | | | | | | | |
| Freon-113 | BRL | 5.0 | | | | | | | | | |
| Isopropylbenzene | BRL | 1.0 | | | | | | | | | |
| m,p-Xylene | BRL | 1.0 | | | | | | | | | |
| Methyl acetate | BRL | 2.0 | | | | | | | | | |
| Methyl tert-butyl ether | BRL | 1.0 | | | | | | | | | |
| Methylcyclohexane | BRL | 2.0 | | | | | | | | | |
| Methylene chloride | BRL | 5.0 | | | | | | | | | |
| Naphthalene | BRL | 5.0 | | | | | | | | | |
| o-Xylene | BRL | 1.0 | | | | | | | | | |
| Styrene | BRL | 1.0 | | | | | | | | | |
| Tetrachloroethene | BRL | 1.0 | | | | | | | | | |
| Toluene | BRL | 1.0 | | | | | | | | | |
| trans-1,2-Dichloroethene | BRL | 2.0 | | | | | | | | | |
| trans-1,3-Dichloropropene | BRL | 2.0 | | | | | | | | | |
| Trichloroethene | BRL | 1.0 | | | | | | | | | |
| Trichlorofluoromethane | BRL | 1.0 | | | | | | | | | |
| Vinyl chloride | BRL | 1.0 | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 47.14 | 0 | 50.00 | | 94.3 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 51.42 | 0 | 50.00 | | 103 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 49.42 | 0 | 50.00 | | 98.8 | 70 | 130 | | | | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT**BatchID: 357557**

| Sample ID: LCS-357557 | Client ID: | | | | Units: ug/L | Prep Date: 06/05/2023 | Run No: 518037 | | | | |
|------------------------------|--|----------------|------------------------|-------------|--------------------|----------------------------------|-------------------------|-------------|------|-----------|------|
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS | SW8260D | BatchID: 357557 | | | Analysis Date: 06/05/2023 | Seq No: 12228284 | | | | |
| 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 | 17.23 | 1.0 | 20.00 | | 86.2 | 70 | 130 | | | | |
| 1,1,2,2-Tetrachloroethane | 16.69 | 1.0 | 20.00 | | 83.4 | 70 | 130 | | | | |
| 1,1,2-Trichloroethane | 18.37 | 1.0 | 20.00 | | 91.8 | 70 | 130 | | | | |
| 1,1-Dichloroethane | 15.70 | 1.0 | 20.00 | | 78.5 | 70 | 130 | | | | |
| 1,1-Dichloroethene | 17.91 | 2.0 | 20.00 | | 89.6 | 60 | 140 | | | | |
| 1,2,4-Trichlorobenzene | 18.71 | 1.0 | 20.00 | | 93.6 | 70 | 130 | | | | |
| 1,2-Dibromo-3-chloropropane | 19.20 | 1.0 | 20.00 | | 96.0 | 70 | 130 | | | | |
| 1,2-Dibromoethane | 19.15 | 1.0 | 20.00 | | 95.8 | 70 | 130 | | | | |
| 1,2-Dichlorobenzene | 18.47 | 1.0 | 20.00 | | 92.4 | 70 | 130 | | | | |
| 1,2-Dichloroethane | 19.22 | 1.0 | 20.00 | | 96.1 | 70 | 130 | | | | |
| 1,2-Dichloropropane | 16.18 | 1.0 | 20.00 | | 80.9 | 70 | 130 | | | | |
| 1,3-Dichlorobenzene | 19.10 | 1.0 | 20.00 | | 95.5 | 70 | 130 | | | | |
| 1,4-Dichlorobenzene | 18.94 | 1.0 | 20.00 | | 94.7 | 70 | 130 | | | | |
| Benzene | 18.59 | 1.0 | 20.00 | | 93.0 | 70 | 130 | | | | |
| Bromodichloromethane | 18.90 | 1.0 | 20.00 | | 94.5 | 70 | 130 | | | | |
| Bromoform | 23.13 | 1.0 | 20.00 | | 116 | 70 | 130 | | | | |
| Carbon tetrachloride | 20.45 | 2.0 | 20.00 | | 102 | 70 | 130 | | | | |
| Chlorobenzene | 19.11 | 1.0 | 20.00 | | 95.6 | 70 | 130 | | | | |
| Chloroform | 17.34 | 1.0 | 20.00 | | 86.7 | 70 | 130 | | | | |
| cis-1,2-Dichloroethene | 17.47 | 1.0 | 20.00 | | 87.4 | 70 | 130 | | | | |
| cis-1,3-Dichloropropene | 18.53 | 1.0 | 20.00 | | 92.6 | 70 | 130 | | | | |
| Dibromochloromethane | 20.64 | 1.0 | 20.00 | | 103 | 70 | 130 | | | | |
| Ethylbenzene | 19.09 | 1.0 | 20.00 | | 95.4 | 70 | 130 | | | | |
| Isopropylbenzene | 17.54 | 1.0 | 20.00 | | 87.7 | 70 | 130 | | | | |
| m,p-Xylene | 38.41 | 1.0 | 40.00 | | 96.0 | 70 | 130 | | | | |
| Methylene chloride | 16.08 | 5.0 | 20.00 | | 80.4 | 70 | 130 | | | | |
| Naphthalene | 18.82 | 5.0 | 20.00 | | 94.1 | 70 | 130 | | | | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357557

| | | | | | | | | | | | |
|------------------------------|--|----------------|------------------------|-------------|------|--------------------|----------------------------------|-------------------------|------|-----------|------|
| Sample ID: LCS-357557 | Client ID: | | | | | Units: ug/L | Prep Date: 06/05/2023 | Run No: 518037 | | | |
| SampleType: LCS | TestCode: Volatile Organic Compounds by GC/MS | SW8260D | BatchID: 357557 | | | | Analysis Date: 06/05/2023 | Seq No: 12228284 | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

| | | | | | | | | | | | |
|----------------------------|-------|-----|-------|--|------|----|-----|--|--|--|--|
| o-Xylene | 19.06 | 1.0 | 20.00 | | 95.3 | 70 | 130 | | | | |
| Styrene | 19.36 | 1.0 | 20.00 | | 96.8 | 70 | 130 | | | | |
| Tetrachloroethene | 22.12 | 1.0 | 20.00 | | 111 | 70 | 130 | | | | |
| Toluene | 20.01 | 1.0 | 20.00 | | 100 | 70 | 130 | | | | |
| trans-1,2-Dichloroethene | 17.46 | 2.0 | 20.00 | | 87.3 | 70 | 130 | | | | |
| trans-1,3-Dichloropropene | 19.27 | 2.0 | 20.00 | | 96.4 | 70 | 130 | | | | |
| Trichloroethene | 20.62 | 1.0 | 20.00 | | 103 | 70 | 130 | | | | |
| Trichlorofluoromethane | 18.97 | 1.0 | 20.00 | | 94.8 | 70 | 130 | | | | |
| Vinyl chloride | 17.28 | 1.0 | 20.00 | | 86.4 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 47.97 | 0 | 50.00 | | 95.9 | 70 | 130 | | | | |
| Surr: Dibromofluoromethane | 51.26 | 0 | 50.00 | | 103 | 70 | 130 | | | | |
| Surr: Toluene-d8 | 49.48 | 0 | 50.00 | | 99.0 | 70 | 130 | | | | |

| | | | | | | | | | | | |
|----------------------------------|--|----------------|------------------------|-------------|------|--------------------|----------------------------------|-------------------------|------|-----------|------|
| Sample ID: 2306130-003AMS | Client ID: | | | | | Units: ug/L | Prep Date: 06/05/2023 | Run No: 518092 | | | |
| SampleType: MS | TestCode: Volatile Organic Compounds by GC/MS | SW8260D | BatchID: 357557 | | | | Analysis Date: 06/06/2023 | Seq No: 12229861 | | | |
| 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 | 153.3 | 10 | 200.0 | | 76.6 | 71.5 | 138 | | | | |
| 1,1,2,2-Tetrachloroethane | 158.0 | 10 | 200.0 | | 79.0 | 71.5 | 134 | | | | |
| 1,1,2-Trichloroethane | 165.6 | 10 | 200.0 | | 82.8 | 74.2 | 130 | | | | |
| 1,1-Dichloroethane | 158.6 | 10 | 200.0 | | 79.3 | 70.7 | 136 | | | | |
| 1,1-Dichloroethene | 159.4 | 20 | 200.0 | | 79.7 | 69 | 142 | | | | |
| 1,2,4-Trichlorobenzene | 166.7 | 10 | 200.0 | | 83.4 | 60 | 135 | | | | |
| 1,2-Dibromo-3-chloropropane | 132.8 | 10 | 200.0 | | 66.4 | 55.7 | 132 | | | | |
| 1,2-Dibromoethane | 162.0 | 10 | 200.0 | | 81.0 | 75 | 129 | | | | |
| 1,2-Dichlorobenzene | 159.8 | 10 | 200.0 | | 79.9 | 74.1 | 127 | | | | |
| 1,2-Dichloroethane | 153.4 | 10 | 200.0 | | 76.7 | 72.1 | 135 | | | | |
| 1,2-Dichloropropane | 169.6 | 10 | 200.0 | | 84.8 | 72 | 135 | | | | |

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|--------------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357557

| | | | | | | | | | | | |
|----------------------------------|--------|--|-----------|-------------|------------------------|-----------|----------------------------------|-------------|-------------------------|-----------|------|
| Sample ID: 2306130-003AMS | | Client ID: | | | Units: ug/L | | Prep Date: 06/05/2023 | | Run No: 518092 | | |
| SampleType: MS | | TestCode: Volatile Organic Compounds by GC/MS SW8260D | | | BatchID: 357557 | | Analysis Date: 06/06/2023 | | Seq No: 12229861 | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
| 1,3-Dichlorobenzene | 160.4 | 10 | 200.0 | | 80.2 | 74.6 | 127 | | | | |
| 1,4-Dichlorobenzene | 154.7 | 10 | 200.0 | | 77.4 | 74.7 | 126 | | | | |
| Benzene | 162.7 | 10 | 200.0 | | 81.4 | 71.4 | 135 | | | | |
| Bromodichloromethane | 155.8 | 10 | 200.0 | | 77.9 | 69.8 | 132 | | | | |
| Bromoform | 116.3 | 10 | 200.0 | | 58.2 | 55 | 135 | | | | |
| Carbon tetrachloride | 149.2 | 20 | 200.0 | | 74.6 | 72.5 | 141 | | | | |
| Chlorobenzene | 161.5 | 10 | 200.0 | | 80.8 | 77.7 | 129 | | | | |
| Chloroform | 153.6 | 10 | 200.0 | | 76.8 | 71 | 135 | | | | |
| cis-1,2-Dichloroethene | 198.0 | 10 | 200.0 | 39.10 | 79.4 | 71 | 135 | | | | |
| cis-1,3-Dichloropropene | 183.2 | 10 | 200.0 | | 91.6 | 70 | 127 | | | | |
| Dibromochloromethane | 141.5 | 10 | 200.0 | | 70.8 | 64.5 | 136 | | | | |
| Ethylbenzene | 165.6 | 10 | 200.0 | 4.200 | 80.7 | 77 | 131 | | | | |
| Isopropylbenzene | 180.9 | 10 | 200.0 | | 90.4 | 74.3 | 133 | | | | |
| m,p-Xylene | 333.4 | 10 | 400.0 | | 83.4 | 71.4 | 136 | | | | |
| Methylene chloride | 145.7 | 50 | 200.0 | | 72.8 | 63.1 | 133 | | | | |
| Naphthalene | 174.3 | 50 | 200.0 | 21.50 | 76.4 | 60.2 | 132 | | | | |
| o-Xylene | 166.3 | 10 | 200.0 | | 83.2 | 72.5 | 132 | | | | |
| Styrene | 165.1 | 10 | 200.0 | | 82.6 | 73.1 | 133 | | | | |
| Tetrachloroethene | 698.3 | 10 | 200.0 | 530.2 | 84.0 | 73.2 | 136 | | | | |
| Toluene | 170.9 | 10 | 200.0 | | 85.4 | 70.3 | 136 | | | | |
| trans-1,2-Dichloroethene | 156.7 | 20 | 200.0 | | 78.4 | 70.5 | 136 | | | | |
| trans-1,3-Dichloropropene | 183.8 | 20 | 200.0 | | 91.9 | 64.5 | 128 | | | | |
| Trichloroethene | 178.6 | 10 | 200.0 | 15.10 | 81.8 | 77 | 134 | | | | |
| Trichlorofluoromethane | 172.3 | 10 | 200.0 | | 86.2 | 71.6 | 135 | | | | |
| Vinyl chloride | 169.8 | 10 | 200.0 | | 84.9 | 64.5 | 143 | | | | |
| Surr: 4-Bromofluorobenzene | 484.1 | 0 | 500.0 | | 96.8 | 70 | 126 | | | | |
| Surr: Dibromofluoromethane | 449.1 | 0 | 500.0 | | 89.8 | 77 | 121 | | | | |

| | | | | | | |
|--------------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357557

| | | | | | | | | | | | |
|---------------------------|---|-----------|-----------------|-------------|------|-------------|---------------------------|------------------|------|-----------|------|
| Sample ID: 2306130-003AMS | Client ID: | | | | | Units: ug/L | Prep Date: 06/05/2023 | Run No: 518092 | | | |
| SampleType: MS | TestCode: Volatile Organic Compounds by GC/MS | SW8260D | BatchID: 357557 | | | | Analysis Date: 06/06/2023 | Seq No: 12229861 | | | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |

Surr: Toluene-d8 506.9 0 500.0 101 78.6 119

| | | | | | | | | | | | |
|----------------------------|---|-----------|-----------------|-------------|------|-------------|---------------------------|------------------|------|-----------|------|
| Sample ID: 2306130-003AMSD | Client ID: | | | | | Units: ug/L | Prep Date: 06/05/2023 | Run No: 518092 | | | |
| SampleType: MSD | TestCode: Volatile Organic Compounds by GC/MS | SW8260D | BatchID: 357557 | | | | Analysis Date: 06/06/2023 | Seq No: 12229862 | | | |
| 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 | 143.7 | 10 | 200.0 | | 71.8 | 71.5 | 138 | 153.3 | 6.46 | 36.2 | |
| 1,1,2,2-Tetrachloroethane | 155.2 | 10 | 200.0 | | 77.6 | 71.5 | 134 | 158.0 | 1.79 | 35.1 | |
| 1,1,2-Trichloroethane | 161.9 | 10 | 200.0 | | 81.0 | 74.2 | 130 | 165.6 | 2.26 | 33.8 | |
| 1,1-Dichloroethane | 146.1 | 10 | 200.0 | | 73.0 | 70.7 | 136 | 158.6 | 8.20 | 17 | |
| 1,1-Dichloroethene | 145.3 | 20 | 200.0 | | 72.6 | 69 | 142 | 159.4 | 9.26 | 39.2 | |
| 1,2,4-Trichlorobenzene | 156.8 | 10 | 200.0 | | 78.4 | 60 | 135 | 166.7 | 6.12 | 40.6 | |
| 1,2-Dibromo-3-chloropropane | 127.5 | 10 | 200.0 | | 63.8 | 55.7 | 132 | 132.8 | 4.07 | 39 | |
| 1,2-Dibromoethane | 159.7 | 10 | 200.0 | | 79.8 | 75 | 129 | 162.0 | 1.43 | 33.8 | |
| 1,2-Dichlorobenzene | 154.6 | 10 | 200.0 | | 77.3 | 74.1 | 127 | 159.8 | 3.31 | 34.6 | |
| 1,2-Dichloroethane | 149.4 | 10 | 200.0 | | 74.7 | 72.1 | 135 | 153.4 | 2.64 | 33.9 | |
| 1,2-Dichloropropane | 160.9 | 10 | 200.0 | | 80.4 | 72 | 135 | 169.6 | 5.26 | 49.3 | |
| 1,3-Dichlorobenzene | 154.2 | 10 | 200.0 | | 77.1 | 74.6 | 127 | 160.4 | 3.94 | 34.6 | |
| 1,4-Dichlorobenzene | 151.1 | 10 | 200.0 | | 75.6 | 74.7 | 126 | 154.7 | 2.35 | 34.5 | |
| Benzene | 155.8 | 10 | 200.0 | | 77.9 | 71.4 | 135 | 162.7 | 4.33 | 31.6 | |
| Bromodichloromethane | 148.5 | 10 | 200.0 | | 74.2 | 69.8 | 132 | 155.8 | 4.80 | 33.8 | |
| Bromoform | 118.9 | 10 | 200.0 | | 59.4 | 55 | 135 | 116.3 | 2.21 | 36.4 | |
| Carbon tetrachloride | 143.2 | 20 | 200.0 | | 71.6 | 72.5 | 141 | 149.2 | 4.10 | 37.7 | S |
| Chlorobenzene | 153.8 | 10 | 200.0 | | 76.9 | 77.7 | 129 | 161.5 | 4.88 | 34.3 | S |
| Chloroform | 145.7 | 10 | 200.0 | | 72.8 | 71 | 135 | 153.6 | 5.28 | 35.3 | |
| cis-1,2-Dichloroethene | 184.3 | 10 | 200.0 | 39.10 | 72.6 | 71 | 135 | 198.0 | 7.17 | 35.9 | |
| cis-1,3-Dichloropropene | 173.8 | 10 | 200.0 | | 86.9 | 70 | 127 | 183.2 | 5.27 | 34.8 | |
| Dibromochloromethane | 141.2 | 10 | 200.0 | | 70.6 | 64.5 | 136 | 141.5 | 0.212 | 34.2 | |

| | | | | | | |
|-------------|---------|--|---|---|---|--|
| 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: F&ME Consultants, Inc.
Project Name I-26 Widening-Crews Drive Phase II ESA
Workorder: 2306155

ANALYTICAL QC SUMMARY REPORT

BatchID: 357557

| | | | | | | | | | | | |
|----------------------------|--------|---|-----------|-------------|------|-----------------|------------|---------------------------|-------|------------------|------|
| Sample ID: 2306130-003AMSD | | Client ID: | | | | Units: ug/L | | Prep Date: 06/05/2023 | | Run No: 518092 | |
| SampleType: MSD | | TestCode: Volatile Organic Compounds by GC/MS | | SW8260D | | BatchID: 357557 | | Analysis Date: 06/06/2023 | | Seq No: 12229862 | |
| Analyte | Result | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit | High Limit | RPD Ref Val | %RPD | RPD Limit | Qual |
| Ethylbenzene | 156.3 | 10 | 200.0 | 4.200 | 76.0 | 77 | 131 | 165.6 | 5.78 | 26 | S |
| Isopropylbenzene | 168.1 | 10 | 200.0 | | 84.0 | 74.3 | 133 | 180.9 | 7.34 | 37.3 | |
| m,p-Xylene | 318.9 | 10 | 400.0 | | 79.7 | 71.4 | 136 | 333.4 | 4.45 | 26.1 | |
| Methylene chloride | 138.0 | 50 | 200.0 | | 69.0 | 63.1 | 133 | 145.7 | 5.43 | 36.2 | |
| Naphthalene | 168.4 | 50 | 200.0 | 21.50 | 73.4 | 60.2 | 132 | 174.3 | 3.44 | 31 | |
| o-Xylene | 157.5 | 10 | 200.0 | | 78.8 | 72.5 | 132 | 166.3 | 5.44 | 25.8 | |
| Styrene | 159.3 | 10 | 200.0 | | 79.6 | 73.1 | 133 | 165.1 | 3.58 | 34.8 | |
| Tetrachloroethene | 661.6 | 10 | 200.0 | 530.2 | 65.7 | 73.2 | 136 | 698.3 | 5.40 | 36 | S |
| Toluene | 160.7 | 10 | 200.0 | | 80.4 | 70.3 | 136 | 170.9 | 6.15 | 32 | |
| trans-1,2-Dichloroethene | 148.3 | 20 | 200.0 | | 74.2 | 70.5 | 136 | 156.7 | 5.51 | 37.2 | |
| trans-1,3-Dichloropropene | 182.3 | 20 | 200.0 | | 91.2 | 64.5 | 128 | 183.8 | 0.819 | 35.2 | |
| Trichloroethene | 173.0 | 10 | 200.0 | 15.10 | 79.0 | 77 | 134 | 178.6 | 3.19 | 35.3 | |
| Trichlorofluoromethane | 159.3 | 10 | 200.0 | | 79.6 | 71.6 | 135 | 172.3 | 7.84 | 55.6 | |
| Vinyl chloride | 156.0 | 10 | 200.0 | | 78.0 | 64.5 | 143 | 169.8 | 8.47 | 40.5 | |
| Surr: 4-Bromofluorobenzene | 486.5 | 0 | 500.0 | | 97.3 | 70 | 126 | 484.1 | 0 | 0 | |
| Surr: Dibromofluoromethane | 447.7 | 0 | 500.0 | | 89.5 | 77 | 121 | 449.1 | 0 | 0 | |
| Surr: Toluene-d8 | 498.5 | 0 | 500.0 | | 99.7 | 78.6 | 119 | 506.9 | 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 | | |
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End of Report