

VIA ELECTRONIC MAIL

July 28, 2022

Mr. Daniel R. Lanners, P.E. Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway Albany, NY 12233-7014

Subject: Indoor Air Sampling Report for Former Manufacturing Building

Federal-Mogul/Huck Site, Kingston, New York

NYSDEC Site Number V00171

Dear Mr. Lanners:

WSP USA Inc., on behalf of Tenneco Inc. (as successor in interest to Federal-Mogul LLC), has prepared this report to summarize the results of air samples collected on March 30, 2022, at the former Huck manufacturing facility at 85 Grand Street in Kingston, New York. This indoor air sampling event was recommended in WSP's July 1, 2021, letter report to the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH), which included the results of indoor air sampling conducted on March 31, 2021.

Based on the March 2021 indoor air sampling results, WSP recommended in the July 1, 2021, report to evaluate potential alternatives to provide vacuum under the northwest portion of the building to address the potential for vapor intrusion to indoor air in this area. On November 30, 2021, WSP submitted to the NYSDEC a proposed design for a sub-slab depressurization system (SSDS) to be installed in the northwest portion of the main building, and the design was approved in a letter to Tenneco Inc., dated January 13, 2022. The SSDS was installed from January 31 through February 3, 2022, and the results of the SSDS installation activities and record drawings will be included in the first semi-annual progress report for 2022, which will be submitted to the NYSDEC and NYSDOH by August 15, 2022. The purpose of the March 30, 2022, indoor air sampling event was to evaluate the potential impact of the SSDS on indoor air quality.

SCOPE OF WORK

The March 2022 indoor air sampling event consisted of performing a building inspection and material inventory, collecting five indoor air samples within the former manufacturing building, and collecting two ambient outdoor air samples at upwind locations selected on the day of sampling to evaluate potential background sources for volatile organic compounds (VOCs) in outdoor air. The March 2022 indoor air samples were collected from the former Family Services space, the main office complex, and in the self-storage portion of the main building (Figure 1). The former Family Services space had been used for storage during the March and April 2019 sampling events; however, the space was being used as a recording studio during the November 2020, March 2021, and March 2022 sampling events. Consistent with the previous indoor air sampling event in March 2021, the air sparge (AS)/soil vapor extraction (SVE) system Cycle Group 1 AS and SVE wells were operating at full vacuum during the sampling event. In addition, SVE well SV-12 was operating at a reduced vacuum.

WSP USA One Penn Plaza New York, NY 10119

Tel.: +1 212 465-5000



Sampling activities were conducted in accordance with WSP's Indoor Air Sampling Work Plan, dated February 5, 2019, the NYSDEC's conditional approval letter, dated March 4, 2019, and the NYSDOH's Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006, and associated updates. A description of the sampling activities is provided below.

BUILDING INSPECTION AND MATERIAL INVENTORY

WSP performed a pre-sampling site inspection and completed material inventories on March 17, 2022, before the sampling activities on March 30, 2022. During the inspection, WSP completed material inventory forms for the former Family Services space, main office complex, and the self-storage area of the main building. In general, the volatile ingredients of each material, if available, were photographed or recorded on the inventory form, and the containers were scanned with a photoionization detector (RAE Systems ppbRAE) for potential vapor emissions.

Some of the target site-related VOCs (i.e., trichloroethene [TCE], tetrachloroethene [PCE]) are found in many household and commercial products. While WSP attempted to limit the potential for these background sources to affect the indoor air results by performing material inventories in the areas sampled and eliminating potential sources for these VOCs, if identified, the interior of the former manufacturing building contains over 400 self-storage units (with wire mesh ceilings) that were not accessible to WSP. Therefore, WSP could not control or eliminate any potential impacts to indoor quality resulting from VOC-containing materials that may be stored in these units.

INDOOR AIR SAMPLING PROCEDURES

On March 30, 2022, indoor air samples were collected from five locations (IA-1, IA-2, IA-3, IA-5, and IA-6) that were sampled in March and April 2019, November 2020¹, and March 2021 (Figure 1). Samples were collected using evacuated 6-liter SUMMATM-style canisters with flow controllers and particulate filters installed. Each of the indoor air sample canisters were placed approximately 3 to 5 feet above the floor to be representative of the breathing zone. Physical and visual barriers were placed around the canisters, if necessary, so that they would not be disturbed during sample collection. The flow regulators were pre-set by the laboratory to collect the samples over an approximately 8-hour period. The flow regulator was connected to the canister and opened to initiate sample collection. After approximately 8 hours, the flow regulator was closed to complete the sample collection. The sample name, location, time and date of sample collection, final canister vacuum, canister and regulator number, and the analytical method to be used were recorded on the chain-of-custody form and in the field logbook.

AMBIENT OUTDOOR AIR SAMPLING PROCEDURES

On March 30, 2022, ambient (outdoor) air samples were collected from two locations (AA-1 and AA-2) upwind of the facility concurrently with indoor air sample collection. The outdoor air samples were collected west of the former manufacturing building (Figure 1). The outdoor air samples were collected with evacuated 6-liter SUMMATM-style canisters and dedicated flow controllers over an approximately 8-hour period using the same procedures described above for the indoor air samples. Site conditions, including temperature, wind direction and velocity, barometric pressure, and the occurrence of precipitation were documented before initiating the sampling activities.

SAMPLE ANALYSIS AND QUALITY ASSURANCE/QUALITY CONTROL

Quality assurance/quality control procedures were followed to ensure that controls were initiated and maintained throughout sampling and analysis. The canisters were submitted under ambient conditions to an offsite laboratory, ALS Environmental of Simi Valley, California, under strict chain-of-custody procedures. ALS Environmental – Simi Valley is accredited under the NYSDOH Environmental Laboratory Approval Program (ID 11221). As specified in the work plan, the indoor and outdoor air samples were analyzed for site-related VOCs (i.e., TCE, PCE, and cis-1,2-dichloroethene [cis-1,2-DCE]) using U.S. Environmental Protection

¹ The sample collected at location IA-3 in November 2020 could not be analyzed due to an equipment malfunction at the laboratory.



Agency (EPA) Method TO-15. The sample results were validated by a third-party contractor (Laboratory Data Consultants, Inc., in Carlsbad, California).

The canisters used for the sampling activities were 100-percent individually certified-clean by the laboratory by analyzing the ambient air inside a cleaned canister by EPA Method TO-15. If no target compounds were detected at concentrations above compound-specific method reporting limits, then the canister was evacuated again, and the canister was available for sampling. If target compounds were detected at concentrations above the method reporting limits, then the canister was re-cleaned and reanalyzed for the target compounds.

A duplicate indoor air sample was collected from sample location IA-2. The duplicate sample was collected at the same time and from the same sample location using a sample tee. The field duplicate identity was not provided to the laboratory. The field duplicate is useful in documenting the precision of the sampling process. In addition, a laboratory-prepared trip blank accompanied the sample canisters from the laboratory to the field and from the field to the laboratory. The trip blank was used to evaluate the potential for contamination during shipment.

SAMPLING RESULTS

The site-related VOCs detected in indoor and outdoor air samples for the March 2022 sampling event are provided on Table 1 and Figure 1, and the analytical data and data validation report are in Enclosure A. For comparison, Table 1 and Figure 1 also include the results from the March and April 2019 and November 2020 and March 2021 sampling events.

Three indoor air samples (IA-1, IA-3, and IA-5) were collected from the self-storage portion of the main building. Indoor air sample IA-1 contained 0.68 μ g/m³ of TCE and 0.22 μ g/m³ of PCE. Indoor air sample IA-3 contained 0.55 μ g/m³ of TCE and 0.21 μ g/m³ of PCE. Indoor air sample IA-5 contained 0.78 μ g/m³ of TCE and 0.36 μ g/m³ of PCE. No cis-1,2-DCE was detected in the indoor air samples IA-1, IA-3, and IA-5.

The March 2022 indoor air samples from the main office complex (IA-2 and the duplicate sample) contained maximum concentrations of 0.58 μ g/m³ of TCE, 0.23 μ g/m³ of PCE, and no detectable concentrations of cis-1,2-DCE.

The March 2022 indoor air sample from the former Family Services space (IA-6) contained 6.9 μ g/m³ of TCE, 0.67 μ g/m³ of PCE, and no detectable concentrations of cis-1,2-DCE.

The March 2022 outdoor air samples (AA-1 and AA-2) contained no detectable concentrations of TCE, PCE, or cis-1,2-DCE.

CONCLUSIONS AND RECOMMENDATIONS

The indoor air results from the March 2022 sampling event show a reduction in the concentrations of TCE, PCE, and cis-1,2-DCE detected in samples IA-1, IA-2, IA-3, and IA-5 from the self-storage portion of the building and the main office complex. This reduction in concentrations is likely attributable to the continued operation of sub-slab depressurization pilot test extraction point SSD-TP1 (Figure 2), which was installed in March 2021, and the SSDS that had been operating in the northwest portion of the main building since February 3, 2022. The results from indoor air sample IA-6 showed an increase in the detected concentrations of TCE and PCE as compared to the March 2021 sample results from this location (Table 1).

Given the variability in the detected concentrations of TCE in sample IA-6 over the five sampling events, including concentrations of 2.2 and 1.6 ug/m³ in March and April 2019, respectively (i.e., before SSD pilot test point SSD-TP1 was activated and the SSDS was installed in the northwest portion of the building), and a concentration of 1.1 μ g/m³ in March 2021, Tenneco is proposing to collect another round of indoor air samples during the upcoming heating season to confirm the March 2022 sample results. Based on the results of the follow-up indoor air sampling event, Tenneco will consider the need for further action to address indoor air quality, if warranted.



If you have any questions or comments regarding this report, please feel free to contact Mark Bauer of Tenneco at (248) 354-8912, or me at (315) 374-5574.

Sincerely,

Brian Silfer, P.G. Practice Leader

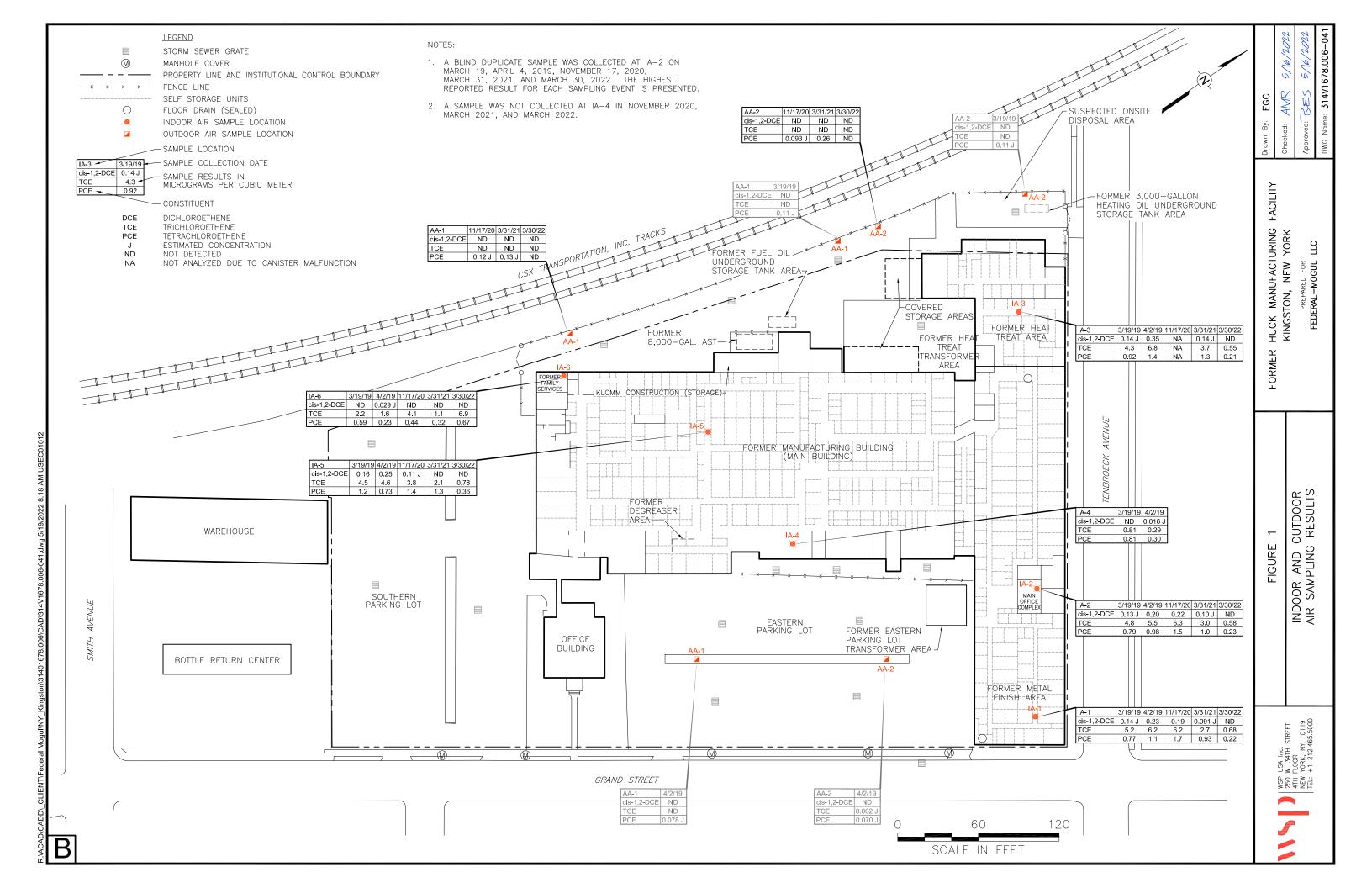
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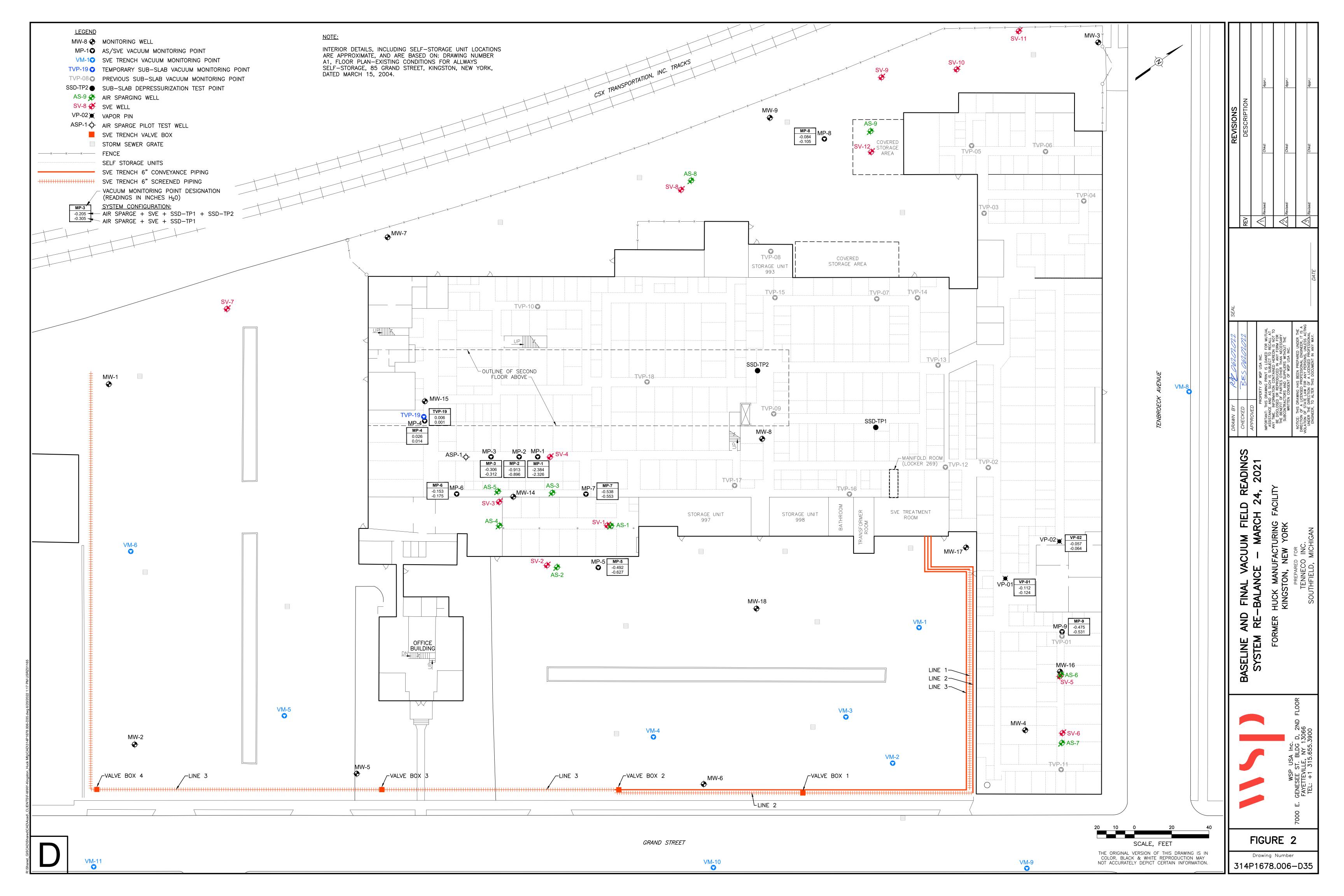
Encl.

cc: Kristin Kulow, New York State Department of Health

Mark T. Bauer, Tenneco Inc. Douglas Brooks, Tenneco Inc.

FIGURES





TABLE

Table 1

Indoor and Outdoor Air Sampling Results Former Huck Manufacturing Building Kingston, NY (a)

Location (b)	Sample ID	Sample Date	Compound (µg/m³) cis-1 2-Dichloroethene Trichloroethene Tetrachloroethene							
Location (b)	Sample 1D	Sample Date	cis-1,2-Dichloroethene	Trichloroethene	Tetrachloroethene					
	HUCKIAF031919-1	3/19/2019	0.14 J	5.2	0.77					
_	HUCKIAF040219-1	4/2/2019	0.23	6.2	1.1					
IA- 1	HUCKIAF111720-1	11/17/2020	0.19	6.2	1.7					
	HUCKIAF033121-1	3/31/2021	0.091 J	2.7	0.93					
	HUCKIAF033022-1	3/30/2022	0.11 U	0.68	0.22					
	HUCKIAF031919-2	3/19/2019	0.13 J	4.8	0.79					
_	HUCKIAFR031919-2 (c)	3/19/2019	0.12 J	4.8	0.79					
	HUCKIAF040219-2	4/2/2019	0.20	5.5	0.98					
_	HUCKIAFR040219-2 (d)	4/2/2019	0.20	5.4	0.97					
IA-2	HUCKIAF111720-2	11/17/2020	0.19	5.9	1.5					
	HUCKIAFR111720-2 (e)	11/17/2020	0.22	6.3	1.5					
	HUCKIAF033121-2	3/31/2021	0.10 J	3.0	1.0					
_	HUCKIAFR033121-2 (f)	3/31/2021	0.091 J	2.8	0.93					
	HUCKIAF033022-2	3/30/2022	0.11 U	0.58	0.23					
	HUCKIAFR033022-2 (g)	3/30/2022	0.10 U	0.51	0.19					
-	HUCKIAF031919-3	3/19/2019	0.14 J	4.3	0.92					
=	HUCKIAF040219-3	4/2/2019	0.35	6.8	1.4					
IA- 3	HUCKIAF111720-3	11/17/2020	NA	NA	NA					
=	HUCKIAF033121-3	3/31/2021	0.14 J	3.7	1.3					
	HUCKIAF033022-3	3/30/2022	0.11 U	0.55	0.21					
=	HUCKIAF031919-4	3/19/2019	0.11 U	0.81	0.81					
=	HUCKIAF040219-4	4/2/2019	0.016 J	0.29	0.30					
IA- 4	NS	11/17/2020	NS	NS	NS					
=	NS	3/31/2021	NS	NS	NS					
	NS	3/30/2022	NS	NS	NS					
=	HUCKIAF031919-5	3/19/2019	0.16	4.5	1.2					
	HUCKIAF040219-5	4/2/2019	0.25	4.6	0.73					
IA- 5	HUCKIAF111720-5	11/17/2020	0.11 J	3.8	1.4					
-	HUCKIAF033121-5	3/31/2021	0.014 U	2.1	1.3					
	HUCKIAF033022-5	3/30/2022	0.11 U	0.78	0.36					
=	HUCKIAF031919-6	3/19/2019	0.11 U	2.2	0.59					
YA 6	HUCKIAF040219-6	4/2/2019	0.029 J	1.6	0.23					
IA - 6	HUCKIAF111720-6	11/17/2020	0.11 U	4.1	0.44					
-	HUCKIAF033121-6	3/31/2021	0.014 U	1.1	0.32					
	HUCKIAF033022-6	3/30/2022	0.11 U	6.9	0.67					
	HUCKAA031919-1	3/19/2019	0.10 U	0.099 U	0.11 J					
A A 1	HUCKAA040219-1	4/2/2019	0.014 U	0.16 U	0.078 J					
AA-1	HUCKAA111720-1	11/17/2020	0.10 U	0.098 U	0.12 J					
-	HUCKAA033121-1 HUCKAA033022-1	3/31/2021	0.013 U	0.012 U	0.13 J					
	HUCKAA033022-1 HUCKAA031919-2	3/30/2022	0.087 U 0.11 U	0.084 U 0.10 U	0.080 U 0.11 J					
-	HUCKAA031919-2 HUCKAA040219-2	3/19/2019			0.11 J 0.070 J					
AA-2	HUCKAA040219-2 HUCKAA111720-2	4/2/2019 11/17/2020	0.014 U 0.10 U	0.020 J 0.096 U	0.070 J 0.093 J					
AA-2	HUCKAA033121-2			0.096 U						
-		3/31/2021 3/30/2022	0.012 U 0.098 U	0.011 U 0.094 U	0.26 0.090 U					
	HUCKAA033022-2	3/30/2022	U.U90 U	0.094 U	0.090 0					

a/ μ g/m³ = micrograms per cubic meter.

U = Compound was analyzed for, but not detected above the laboratory detection limit.

 $J = The \ result \ is \ an \ estimated \ concentration \ that \ is \ less \ than \ the \ method \ reporting \ limit \ but \ greater \ than \ or \ equal \ to \ the \ method \ detection \ limit.$

NA = not analyzed due to a canister malfunction.

NS = not sampled for this event.

b/ Location: IA = indoor air; AA = outdoor air. (Outdoor air samples were placed in different locations for each sampling event. See Figure 1.)

c/ Duplicate sample of HUCKIAF031919-2.

d/ Duplicate sample of HUCKIAF040219-2.

e/ Duplicate sample of HUCKIAF111720-2.

 $f/\ Duplicate\ sample\ of\ HUCKIAF033121-2.$

g/ Duplicate sample of HUCKIAF033022-2.





2655 Park Center Dr., Suite A Simi Valley, CA 93065 T: +1 805 526 7161 www.alsglobal.com

LABORATORY REPORT

April 11, 2022

Brian Silfer WSP USA 7000 East Genesee St., Building D, 2nd Floor Fayetteville, NY 13066

RE: Former Huck Manufacturing Site / 31401678.006 Task 2

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on April 1, 2022. For your reference, these analyses have been assigned our service request number P2201472.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

for Sue Anderson Project Manager



2655 Park Center Dr., Suite A Simi Valley, CA 93065 T: +1 805 526 7161 www.alsglobal.com

Client: WSP USA Service Request No: P2201472

Project: Former Huck Manufacturing Site / 31401678.006 Task 2

New York Lab ID: 11221

CASE NARRATIVE

The samples were received intact under chain of custody on April 1, 2022 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	http://dec.alaska.gov/eh/lab.aspx	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure- certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental- laboratories/index.html	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/page/la-lab-accreditation	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental- health/dwp/professionals/labCert.shtml	2018027
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1776326
New Jersey DEP (NELAP)	http://www.nj.gov/dep/enforcement/oqa.html	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-008
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory- Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413- 19-10
Utah DOH (NELAP)	http://health.utah.gov/lab/lab_cert_env	CA01627201 9-10
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

DETAIL SUMMARY REPORT

Client: WSP USA Service Request: P2201472

Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2

Date Received: 4/1/2022 Time Received: 17:07

			Date	Time	Container	Pi1	Pf1	0-15 - VC
Client Sample ID	Lab Code	Matrix	Collected	Collected	ID	(psig)	(psig)	OT
HUCKIAF033022-1	P2201472-001	Air	3/30/2022	16:35	SC00760	-1.73	3.98	X
HUCKIAF033022-2	P2201472-002	Air	3/30/2022	16:34	AC02379	-2.36	4.22	X
HUCKIAFR033022-2	P2201472-003	Air	3/30/2022	16:34	AC02353	-1.32	3.81	X
HUCKIAF033022-3	P2201472-004	Air	3/30/2022	16:37	SSC00144	-1.59	3.79	X
HUCKIAF033022-5	P2201472-005	Air	3/30/2022	16:36	SSC00461	-2.21	4.02	X
HUCKIAF033022-6	P2201472-006	Air	3/30/2022	16:20	AC00679	-2.04	4.12	X
HUCKAA033022-1	P2201472-007	Air	3/30/2022	16:15	SC01662	1.15	3.74	X
HUCKAA033022-2	P2201472-008	Air	3/30/2022	16:32	AS01599	-0.64	3.75	X
TRIP BLANK	P2201472-009	Air	3/30/2022	00:00	SSC00277	-14.15	3.88	X

ALS

Air - Chain of Custody Record & Analytical Service Request

Page ____ of ___

2655 Park Center Drive, Suite A Simi Valley, California 93065 Phone (805) 526-7161

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HULKIAF033092-1	1	3 30	၁၂၅၁	1635	5600760	5FC00430		-4	GL	λ	 	
HULKIAFO33092-2	2			1634	AL02379	FCROOKI95		-5		K	 	
HULKTAFRO33032-8	3			1634	ACO 2353	FCB00496		-5		1	 	
HULKIAF038022-3	4			1637	55LD6144	SFLOOTAS		-4		×	 	
HUCKIAF033022-5	6			1636	55200461	SPC00040		-3	1	×		
HULKIAFO33000-6	9			1620	AL00679	3FC00547		-4		8		
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						Page 5 of 20			<u> 9</u> -	-1-22		Temperature°C

ALS Environmental

	WSP USA			- Acceptance		Work order:	P2201472			
		Manufacturing Site / 3	31401678.006			4/4/20				
Sample(s) received on:	: 4/4/22			Date opened:	4/4/22	by:	ADAV	ID	
<i>lote:</i> This i	form is used for al	ll samples received by ALS.	The use of this f	orm for custody se	eals is strictly m	eant to indicate presen	ce/absence and no	ot as an in	dication	of
		. Thermal preservation and							<u>No</u>	<u>N/A</u>
1	Were sample	containers properly r	narked with cli	ient sample ID	?			X		
2	Did sample c	ontainers arrive in go	od condition?	_				X		
3	Were chain-o	of-custody papers used	l and filled out	.9				X		
4		ontainer labels and/or			ers?			X		
5	-	volume received adequ			•15.			×		
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7	=	emperature (thermal p	=	f cooler at reco	oint adharad t	to?				\boxtimes
/	was proper u	emperature (thermar)	preservation) o	i coolei at iece	eipt aunereu	10 !		ш	ш	
8	Were custody	y seals on outside of co		tainer?				X		
		Location of seal(s)?	Box sealing.				Sealing Lid?	X		
	Were signatur	re and date included?						X		
	Were seals int	tact?						X		
9	Do containe	ers have appropriate p i	reservation, a	ccording to me	ethod/SOP or	Client specified i	nformation?			X
	Is there a clie	ent indication that the s	submitted samp	oles are pH pre	eserved?					X
	Were VOA v	<u>vials</u> checked for prese	nce/absence of	f air bubbles?						X
	Does the clier	nt/method/SOP require	that the analy	st check the sa	mple pH and	if necessary alter	it?			X
10	Tubes:	Are the tubes cap	ped and intact?	?						X
11	Badges:	Are the badges pr	roperly capped	and intact?						X
	8	Are dual bed bad			y capped and	l intact?				X
Lab	Samula ID	Container	Dagwinad	Received	Adjusted	VOA Haadanaa	Dansin	t / Dwage	muoti on	
Lau	Sample ID	Description	Required pH *	pH	pH	VOA Headspace (Presence/Absence)		ot / Prese Commen		
P2201472	2-001-01	6.0 L Source Can	-	-						
22201472		6.0 L Ambient Can								
22201472		6.0 L Ambient Can								
P2201472	2-004.01	6.0 L Silonite Can								
P2201472	2-005.01	6.0 L Silonite Can								
P2201472		6.0 L Ambient Can								
P2201472		6.0 L Source Can								
22201472		6.0 L Silonite Can								
P2201472	2-009.01	6.0 L Silonite Can								
Eyplair	any discrenanc	eies: (include lab sample	ID numbers).							
-Apian	any ansoropano	(merade lab sample	namocisj.							

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: HUCKIAF033022-1 ALS Project ID: P2201472
Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2 ALS Sample ID: P2201472-001

Test Code: EPA TO-15 Date Collected: 3/30/22 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22 Analyst: Wida Ang Date Analyzed: 4/8/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: SC00760

Initial Pressure (psig): -1.73 Final Pressure (psig): 3.98

Canister Dilution Factor: 1.44

CAS#	Compound	Result	MRL	MDL	Result	MRL	MDL Data
		$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	ppbV	ppbV	ppbV Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.11	ND	0.040	0.027
79-01-6	Trichloroethene	0.68	0.16	0.10	0.13	0.029	0.019
127-18-4	Tetrachloroethene	0.22	0.16	0.099	0.033	0.023	0.015

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: HUCKIAF033022-2 ALS Project ID: P2201472
Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2 ALS Sample ID: P2201472-002

Test Code: EPA TO-15 Date Collected: 3/30/22 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22 Analyst: Wida Ang Date Analyzed: 4/8/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02379

Initial Pressure (psig): -2.36 Final Pressure (psig): 4.22

Canister Dilution Factor: 1.53

CAS#	Compound	Result	MRL	MDL	Result	MRL	MDL Data
		μg/m³	μ g/m ³	μg/m³	ppbV	ppbV	ppbV Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.11	ND	0.042	0.029
79-01-6	Trichloroethene	0.58	0.17	0.11	0.11	0.031	0.021
127-18-4	Tetrachloroethene	0.23	0.17	0.11	0.034	0.025	0.016

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: HUCKIAFR033022-2 ALS Project ID: P2201472
Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2 ALS Sample ID: P2201472-003

Test Code: EPA TO-15 Date Collected: 3/30/22 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22 Analyst: Wida Ang Date Analyzed: 4/8/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02353

Initial Pressure (psig): -1.32 Final Pressure (psig): 3.81

Canister Dilution Factor: 1.38

CAS#	Compound	Result	MRL	MDL	Result	MRL	MDL Data
		$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	${f ppbV}$	ppbV	ppbV Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.10	ND	0.038	0.026
79-01-6	Trichloroethene	0.51	0.15	0.099	0.095	0.028	0.018
127-18-4	Tetrachloroethene	0.19	0.15	0.095	0.028	0.022	0.014

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: HUCKIAF033022-3 ALS Project ID: P2201472
Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2 ALS Sample ID: P2201472-004

Test Code: EPA TO-15 Date Collected: 3/30/22 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22 Analyst: Wida Ang Date Analyzed: 4/8/22

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: SSC00144

Initial Pressure (psig): -1.59 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.41

CAS#	Compound	Result	MRL	MDL	Result	MRL	MDL Data
		$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	ppbV	ppbV	ppbV Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.11	ND	0.039	0.027
79-01-6	Trichloroethene	0.55	0.16	0.10	0.10	0.029	0.019
127-18-4	Tetrachloroethene	0.21	0.16	0.097	0.031	0.023	0.014

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: HUCKIAF033022-5 ALS Project ID: P2201472
Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2 ALS Sample ID: P2201472-005

Test Code: EPA TO-15 Date Collected: 3/30/22 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22 Analyst: Wida Ang Date Analyzed: 4/9/22

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: SSC00461

Initial Pressure (psig): -2.21 Final Pressure (psig): 4.02

Canister Dilution Factor: 1.50

CAS#	Compound	Result	MRL	MDL	Result	MRL	MDL Data
		μg/m³	μ g/m ³	$\mu g/m^3$	ppbV	ppbV	ppbV Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.11	ND	0.042	0.028
79-01-6	Trichloroethene	0.78	0.17	0.11	0.14	0.031	0.020
127-18-4	Tetrachloroethene	0.36	0.17	0.10	0.054	0.024	0.015

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: HUCKIAF033022-6 ALS Project ID: P2201472
Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2 ALS Sample ID: P2201472-006

Test Code: EPA TO-15 Date Collected: 3/30/22 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22 Analyst: Wida Ang Date Analyzed: 4/9/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC00679

Initial Pressure (psig): -2.04 Final Pressure (psig): 4.12

Canister Dilution Factor: 1.49

CAS#	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	${f ppbV}$	ppbV	ppbV	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.11	ND	0.041	0.028	
79-01-6	Trichloroethene	6.9	0.16	0.11	1.3	0.031	0.020	
127-18-4	Tetrachloroethene	0.67	0.16	0.10	0.099	0.024	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: HUCKAA033022-1 ALS Project ID: P2201472
Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2 ALS Sample ID: P2201472-007

Test Code: EPA TO-15 Date Collected: 3/30/22 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22 Analyst: Wida Ang Date Analyzed: 4/9/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: SC01662

Initial Pressure (psig): 1.15 Final Pressure (psig): 3.74

Canister Dilution Factor: 1.16

CAS#	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	${f ppbV}$	ppbV	ppbV	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.13	0.087	ND	0.032	0.022	
79-01-6	Trichloroethene	ND	0.13	0.084	ND	0.024	0.016	
127-18-4	Tetrachloroethene	ND	0.13	0.080	ND	0.019	0.012	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: HUCKAA033022-2 ALS Project ID: P2201472
Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2 ALS Sample ID: P2201472-008

Test Code: EPA TO-15 Date Collected: 3/30/22 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22 Analyst: Wida Ang Date Analyzed: 4/9/22

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01599

Initial Pressure (psig): -0.64 Final Pressure (psig): 3.75

Canister Dilution Factor: 1.31

CAS#	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	ppbV	ppbV	ppbV	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.14	0.098	ND	0.036	0.025	
79-01-6	Trichloroethene	ND	0.14	0.094	ND	0.027	0.018	
127-18-4	Tetrachloroethene	ND	0.14	0.090	ND	0.021	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: TRIP BLANK

ALS Project ID: P2201472

Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2

ALS Sample ID: P2201472-009

Test Code: EPA TO-15 Date Collected: 3/30/22 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 4/1/22 Analyst: Wida Ang Date Analyzed: 4/8/22

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: SSC00277

Canister Dilution Factor: 1.00

CAS#	Compound	Result µg/m³	MRL μg/m³	MDL $\mu g/m^3$	Result ppbV	MRL ppbV	MDL ppbV (Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.11	0.075	ND	0.028	0.019	
79-01-6	Trichloroethene	ND	0.11	0.072	ND	0.020	0.013	
127-18-4	Tetrachloroethene	ND	0.11	0.069	ND	0.016	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA

Client Sample ID: Method Blank

Client Project ID: P2201472

Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2

ALS Project ID: P220408-MB

Test Code: EPA TO-15 Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 4/8/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

CAS#	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		μg/m³	μg/m³	μg/m³	ppbV	ppbV	ppbV	Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.11	0.075	ND	0.028	0.019	
79-01-6	Trichloroethene	ND	0.11	0.072	ND	0.020	0.013	
127-18-4	Tetrachloroethene	ND	0.11	0.069	ND	0.016	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: WSP USA

Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2 ALS Project ID: P2201472

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 3/30/22

Analyst: Wida Ang Date(s) Received: 4/1/22

Sample Type: 6.0 L Summa Canister(s) / 6.0 L Silonite Canister(s) Date(s) Analyzed: 4/8 - 4/9/22

Test Notes:

		1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene		
Client Sample ID	ALS Sample ID	Percent	Percent	Percent	Acceptance	Data
		Recovered	Recovered	Recovered	Limits	Qualifier
Method Blank	P220408-MB	96	99	100	70-130	
Lab Control Sample	P220408-LCS	98	93	97	70-130	
Duplicate Lab Control Sample	P220408-DLCS	98	93	98	70-130	
HUCKIAF033022-1	P2201472-001	90	98	114	70-130	
HUCKIAF033022-2	P2201472-002	88	99	116	70-130	
HUCKIAFR033022-2	P2201472-003	88	96	116	70-130	
HUCKIAF033022-3	P2201472-004	87	96	116	70-130	
HUCKIAF033022-5	P2201472-005	87	98	117	70-130	
HUCKIAF033022-6	P2201472-006	88	98	116	70-130	
HUCKAA033022-1	P2201472-007	87	100	117	70-130	
HUCKAA033022-2	P2201472-008	87	100	118	70-130	
TRIP BLANK	P2201472-009	97	97	98	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY Page 1 of 1

Client: WSP USA

Client Sample ID: Duplicate Lab Control Sample

ALS Project ID: P2201472

Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2

ALS Sample ID: P220408-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 4/8/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)

Test Notes:

		Spike Amount	Re	sult			ALS			
CAS#	Compound	LCS / DLCS	LCS	DLCS	% Re	covery	Acceptance	RPD	RPD	Data
		$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$	LCS	DLCS	Limits		Limit	Qualifier
156-59-2	cis-1,2-Dichloroethene	206	211	208	102	101	73-117	1	25	
79-01-6	Trichloroethene	204	224	220	110	108	74-115	2	25	
127-18-4	Tetrachloroethene	212	212	212	100	100	63-130	0	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

RESULTS OF ANALYSIS

Page 1 of 1

WSP USA **Client:** ALS Project ID: P2201472

Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2

Method Blank Summary

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 04082203.D

Analyst: Wida Ang Sample Type:

Date Analyzed: 4/8/22 6.0 L Summa Canister(s) Time Analyzed: 16:32

Test Notes:

Client Sample ID	ALS Sample ID	Lab File ID	Time Analyzed
TRIP BLANK	P2201472-009	04082204.D	17:07
Lab Control Sample	P220408-LCS	04082205.D	17:40
Duplicate Lab Control Sample	P220408-DLCS	04082210.D	20:32
HUCKIAF033022-1	P2201472-001	04082212.D	21:40
HUCKIAF033022-2	P2201472-002	04082213.D	22:14
HUCKIAFR033022-2	P2201472-003	04082214.D	22:48
HUCKIAF033022-3	P2201472-004	04082216.D	23:57
HUCKIAF033022-5	P2201472-005	04082217.D	00:31
HUCKIAF033022-6	P2201472-006	04082218.D	01:05
HUCKAA033022-1	P2201472-007	04082219.D	01:39
HUCKAA033022-2	P2201472-008	04082220.D	02:12

RESULTS OF ANALYSIS

Page 1 of 1

Client: WSP USA ALS Project ID: P2201472

Client Project ID: Former Huck Manufacturing Site / 31401678.006 Task 2

Internal Standard Area and RT Summary

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 04082201.D

Analyst: Wida Ang Date Analyzed: 4/8/22

Sample Type: 6.0 L Summa Canister(s) Time Analyzed: 14:46

Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	240524	11.32	1107664	13.43	212531	17.73
	Upper Limit	336734	11.65	1550730	13.76	297543	18.06
	Lower Limit	144314	10.99	664598	13.10	127519	17.40
	Client Sample ID						
01	Method Blank	218626	11.30	1002674	13.42	181069	17.73
02	TRIP BLANK	196934	11.29	910364	13.42	170232	17.73
03	Lab Control Sample	214161	11.31	977667	13.43	194144	17.73
04	Duplicate Lab Control Sample	223746	11.31	1022654	13.43	200044	17.73
05	HUCKIAF033022-1	329674	11.30	1524957	13.42	266837	17.73
06	HUCKIAF033022-2	329745	11.30	1452843	13.42	263362	17.73
07	HUCKIAFR033022-2	323760	11.30	1450682	13.42	269262	17.73
08	HUCKIAF033022-3	328155	11.30	1446050	13.42	267383	17.73
09	HUCKIAF033022-5	329472	11.30	1451301	13.42	265275	17.73
10	HUCKIAF033022-6	322139	11.30	1428217	13.42	258224	17.73
11	HUCKAA033022-1	306034	11.29	1353184	13.42	241820	17.73
12	HUCKAA033022-2	298507	11.29	1330046	13.42	235764	17.73
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an I.

I = Internal standard not within the specified limits.



LABORATORY DATA CONSULTANTS, INC.

2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

WSP USA Inc. May 27, 2022

250 W 34th St., 4th Fl New York, NY 10119 ATTN: Mr. Brian E. Silfer brian.silfer@wsp.com

SUBJECT: Former Huck Manufacturing Site, Kingston, NY, Data Validation

Dear Mr. Silfer,

Enclosed is the final validation report for the fraction listed below. This SDG was received on April 26, 2022. Attachment 1 is a summary of the samples that were reviewed for analysis.

LDC Project #54047:

SDG Fraction
P2201472 Volatiles

The data validation was performed under Category B guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA Region 2 Analysis of Volatile Organic Compounds in Air Contained Canisters, SOP HW-31, Revision 6 (September 2016)
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA 540-R-2017-002 (January 2017)

Please feel free to contact us if you have any questions.

Sincerely,

Kevin Kha

crink@lab-data.com

Project Manager/Senior Chemist

Former Huck Manufacturing Site, Kingston, NY, NYSDEC, Project Number 31401678.006

Site: Former Huck Manufacturing Site, Kingston, NY

Laboratory: ALS Environmental, Simi Valley, CA

Report No.: P2201472

Reviewer: Pei Geng and Kevin Kha/Laboratory Data Consultants for WSP Group -

Pittsburg, PA

Date: May 25, 2022

Samples Reviewed and Evaluation Summary

FIELD ID	LAB ID	FRACTIONS VALIDATED
HUCK1AF033022-1	P2201472-001	VOC
HUCK1AF033022-2	P2201472-002	VOC
HUCK1AFR033022-2	P2201472-003	VOC
HUCK1AF033022-3	P2201472-004	VOC
HUCK1AF033022-5	P2201472-005	VOC
HUCK1AF033022-6	P2201472-006	VOC
HUCKAA0330225-1	P2201472-007	VOC
HUCKAA033022-2	P2201472-008	VOC
TRIP BLANK	P2201472-009	VOC

Associated QC Samples(s):

Field/Trip Blanks: TRIP BLANK

Field Duplicate pair: HUCK1AF033022-2 and HUCK1AFR033022-2

The above-listed air samples were collected on March 30, 2022 and were analyzed for volatile organic compounds (VOCs) by method TO-15. The data validation was performed in accordance with the USEPA Region 2 Analysis of Volatile Organic Compounds in Air Contained Canisters, SOP HW-31, Revision 6 (September 2016) and the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA 540-R-2017-002 (January 2017), modified as necessary to accommodate the non-CLP methodologies used.

The organic data were evaluated based on the following parameters:

- Data Completeness
- Holding Times
- Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
- Initial and Continuing Calibrations
- Blanks
- Surrogate Recoveries
- Laboratory Duplicate Results
- Laboratory Control Sample (LCS) Results
- Internal Standards
- Field Duplicate Results
- Quantitation Limits and Data Assessment
- Sample Quantitation and Compound Identification

Former Huck Manufacturing Site, Kingston, NY, NYSDEC, Project Number 31401678.006

Overall Evaluation of Data and Potential Usability Issues

All results are usable as reported.

The validation findings were based on the following information.

Data Completeness

The data package was complete as defined under the requirements for the NYSDEC ASP category B laboratory deliverables.

Holding Times

All criteria were met.

GC/MS Tunes

All criteria were met.

Initial and Continuing Calibrations

All criteria were met.

Blanks

Contamination was not detected in the method blanks.

No positive results were found in the trip blank sample TRIP BLANK for VOC analysis.

Surrogate Recoveries

All criteria were met.

Laboratory Duplicate Results

Laboratory duplicates were not associated with this sample set. Validation action was not required on this basis.

LCS Results

All criteria were met.

Internal Standards

All criteria were met.

Laboratory Job P2201472, Organics, Page 2 of 4

Former Huck Manufacturing Site, Kingston, NY, NYSDEC, Project Number 31401678.006

Field Duplicate Results

Samples HUCK1AF033022-2 and HUCK1AFR033022-2 were submitted as the field duplicate pair with this sample group. The following table summarizes the concentrations.

	Concentra	Concentration (ug/m³)			
Compound	HUCK1AF033022-2	HUCK1AFR033022-2	RPD		
Trichloroethene	0.58	0.51	13		
Tetrachloroethene	0.23	0.19	19		

Quantitation Limits and Data Assessment

No results were reported below the reporting limit (RL) and above the method detection limit (MDL) in the VOC analysis.

No dilutions were required for VOC analysis.

Sample Quantitation and Compound Identification

Calculations were spot-checked; no discrepancies were noted.

DATA VALIDATION QUALIFIERS

- U The analyte was analyzed for, but due to blank contamination was flagged as nondetect (U). The result is usable as a nondetect.
- J Data are flagged (J) when a QC analysis fails outside the primary acceptance limits. The qualified "J" data are not excluded from further review or consideration. However, only one flag (J) is applied to a sample result, even though several associated QC analyses may fail. The 'J' data may be biased high or low or the direction of the bias may be indeterminable.
- UJ The analyte was not detected above the reported sample quantitation limit. Data are flagged (UJ) when a QC analysis fails outside the primary acceptance limits. The qualified "UJ" data are not excluded from further review or consideration. However, only one flag is applied to a sample result, even though several associated QC analyses may fail. The 'UJ' data may be biased low.
- JN The analysis indicates the presence of a compound that has been "tentatively identified" (N) and the associated numerical value represents its approximate (J) concentration.
- R Data rejected (R) on the basis of an unacceptable QC analysis should be excluded from further review or consideration. Data are rejected when associated QC analysis results exceed the expanded control limits of the QC criteria. The rejected data are known to contain significant errors based on documented information. The data user must not use the rejected data to make environmental decisions. The presence or absence of the analyte cannot be verified.

VALIDATION COMPLETENESS WORKSHEET LDC #: 54047A48 Category B SDG #: P2201472

Laboratory: ALS Environmental, Simi Valley, CA

METHOD: GC/MS Volatiles (EPA Method TO-15)

2nd Reviewer:

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
1.	Sample receipt/Technical holding times	A	
11.	GC/MS Instrument performance check	\triangle	
III.	Initial calibration/ICV	AA	RSO= 30% /0/=30%
IV.	Continuing calibration	A	ce/= 30/0
V.	Laboratory Blanks / cantor	AA	RS0=30/0 /01=30/0 cer=30/0 by sample
VI.	Field blanks	NA	THE O
VII.	Surrogate spikes	A	
VIII.	Matrix spike duplicates	\mathcal{N}	
IX.	Laboratory control samples	lack	100/0
X.	Field duplicates	W/	D=2+3
XI.	Internal standards	8	
XII.	Target analyte quantitation	A	
XIII.	Target analyte identification	lack	
XIV.	System performance	4	
XV.	Leak Check Compounds	Ň	
xvi	Overall assessment of data	A	

Note:

A = Acceptable

N = Not provided/applicable SW = See worksheet

ND = No compounds detected

R = Rinsate

FB = Field blank

D = Duplicate

TB = Trip blank EB = Equipment blank SB=Source blank

OTHER:

	Client ID	Lab ID	Matrix	Date
1	HUCK1AF033022-1	P2201472-001	Air	03/30/22
2	HUCK1AF033022-2	P2201472-002	Air	03/30/22
3	HUCK1AFR033022-2	P2201472-003	Air	03/30/22
4	HUCK1AF033022-3	P2201472-004	Air	03/30/22
5	HUCK1AF033022-5	P2201472-005	Air	03/30/22
6	HUCK1AF033022-6	P2201472-006	Air	03/30/22
7	HUCKAA0330225-1	P2201472-007	Air	03/30/22
8	HUCKAA033022-2	P2201472-008	Air	03/30/22
9	TRIP BLANK	P2201472-009	Air	03/30/22
10				
11				
12				
13		,		



VALIDATION FINDINGS CHECKLIST

Page: / of / Reviewer: Q

Method: Volatiles (EPA Method TO-15)

Method: Volatiles (EPA Method 10-15)				
Validation Area	Yes	No	<u>NA</u>	Findings/Comments
I. Technical holding times	\top	Ι	T	T = = = = = = = = = = = = = = = = = = =
Were all technical holding times met?	/	_		
Were canister pressure criteria met?				
II. GC/MS Instrument performance check	т	1		T
Were the BFB performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 24-hour clock criteria?	1/	<u> </u>		
III. Initial calibration and Initial calibration verification	Т	ī	 	T
Did the laboratory perform a 5-point calibration prior to sample analysis?		-	 	
Were all percent relative standard deviations (%RSD) ≤ 30%?	1	<u> </u>	ļ	
Was an initial calibration verification standard analyzed after every ICAL for each instrument?				
Were all percent differences (%D) ≤ 30%?				
IV. Continuing calibration	-T	T	,	
Was a continuing calibration standard analyzed at least once every 24 hours for each instrument?				
Were all percent differences (%D) ≤ 30%?				
V. Laboratory Blanks/Canister Blanks		•		
Was a laboratory blank associated with every sample in this SDG?		<u> </u>		
Was a laboratory blank analyzed at least once every 24 hours for each matrix and concentration?			ļ	
Was there contamination in the laboratory blanks?		<u> </u>	<u> </u>	
Was a canister blank analyzed for every canister?	/		 	
Was there contamination in the canister blanks?			-	
VI. Field Blanks				
Were field blanks identified in this SDG?				
Were target compounds detected in the field blanks?			-	
VII. Surrogate spikes (Optional)	T	T	T	
Were all surrogate percent recoveries (%R) within QC limits?				KI KIRINGAN PERIODE (AND TEXTIFICATION AND ANY PROPERTIES AND THE ANY FOR THE ANY FOR THE ANY FOR THE ANY FOR
VIII. Laboratory Duplicate		1		
Was a laboratory duplicate analyzed for this SDG?		/	1_	
Were the relative percent differences (RPD) within the QC limits?				



VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch for this SDG?				
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?				
X. Field duplicates	T -	T	Τ	T
Were field duplicate pairs identified in this SDG?	4		ļ	
Were target compounds detected in the field duplicates?			And and the late	
XI. Internal standards	τ	1	1	
Were internal standard area counts within \pm 40% from the associated calibration standard?	/			
Were retention times within \pm 20.0 seconds from the associated calibration standard?				
XII. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and RLs adjusted to reflect all sample dilutions applicable to level IV validation?	_			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?			<u> </u>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	/		<u> </u>	
Were chromatogram peaks verified and accounted for?				
XIV. System performance				
System performance was found to be acceptable.				
XV. Leak check compounds				
Was a leak check compound used to evaluate sample integrity and included in the laboratory analyte list?			_	
Was the leak check compound detected in the samples? If yes, please see leak check validation findings worksheet.				
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.				

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. lodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC#:54047A48

VALIDATION FINDINGS WORKSHEET <u>Field Duplicates</u>

Page:_1	of_1
Reviewer:	PG

METHOD: GCMS VOA (EPA Method TO15)

	Concentra		
Compound	2	3	RPD
s	0.58	0.51	13
AA	0.23	0.19	19

VALIDATION FINDINGS WORKSHEET Initial Calibration Calculation Verification

Page:_	
Reviewer:	α

METHOD: GC/MS VOA (EPA Method TO-15)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

 $RRF = (A_x)(C_{is})/(A_{is})(C_x)$ average RRF = sum of the RRFs/number of standards %RSD = 100 * (S/X)

A_x = Area of compound, C_x = Concentration of compound,

 A_{is} = Area of associated internal standard C_{is} = Concentration of internal standard

S = Standard deviation of the RRFs

X = Mean of the RRFs

				Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	RRF (/.⊅ std)	RRF (/ . Østd)	Average RRF (initial)	Average RRF (initial)	%RSD	%RSD
1	101	1/20/22	QQ Q (1st internal standard)	1.900	1.900	2.015	2.015	6.4/	6.41
	1eAZ	1/29-2	(2nd internal standard)	0.303	0.303	0.347	0.347	14.08	1409
			(3rd internal standard)	1.656	1.656	1961	1.96/	17.75	17.77
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculate
results.

VALIDATION FINDINGS WORKSHEET Continuing Calibration Results Verification

Page:_	/ of /
Reviewer:	0

METHOD: GC/MS VOA (EPA TO-15)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF

Where: ave. RRF = initial calibration average RRF

 $RRF = (A_x)(C_{is})/(A_{is})(C_x)$

RRF = continuing calibration RRF A_x = Area of compound,

 C_x = Concentration of compound,

 A_{is} = Area of associated internal standard C_{is} = Concentration of internal standard

					Reported	Recalculated	Reported	Recalculated
#_	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	RRF (CC)	RRF (CC)	%D	%D
1_	04082201	4/8/22	ARR (1st internal standard	2.015	1.894	1.894	6.0	6.0
	•	4/3/22	(2nd internal standard	0.347	0.341	0.341	1.7	1.7
			(3rd internal standard	1.961	1.889	1.889	3.7	<u> </u>
2			(1st internal standard		/			
			(2nd internal standard					
L			(3rd internal standard					
3			(1st internal standard					
			(2nd internal standard					
			(3rd internal standard			<u> </u>		
4			(1st internal standard					
			(2nd internal standard					
			(3rd internal standard					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results	s do not agree within 10.0% of the
recalculated results.	



VALIDATION FINDINGS WORKSHEET Surrogate Results Verification

Page:_	/of_/_
Reviewer:_	0_

METHOD: GC/MS Volatiles (EPA Method TO-15)

The percent recove	ries (%R) of surrogates were recalcu	lated for the compounds identified	below using the following calculation:
		M" OF O	

% Recovery: SF/SS * 100

Where: SF = Surrogate Found SS = Surrogate Spiked

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	12.500	12.754	98,	98,	
Bromofluorobenzene	/ /	14.304	114	114	
1,2-Dichloroethane-d4		11.291	90	90	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4				<u> </u>	

VALIDATION FINDINGS WORKSHEET Laboratory Control Sample Results Verification

Page:_	<u>/</u> of_/
Reviewer:	9

METHOD: GC/MS VOA (EPA Method TO-15)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA

Where: SSC = Spiked sample concentration

SA = Spike added

RPD = I LCS - LCSD | * 2/(LCS + LCSD)

LCS = Laboraotry control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

	Ag	pike	Spiked S Concert	Sample Bation	1.0		1.0		LCS/I	
Compound	()	pui)	19	(M) >	Percent F	Recovery	Percent I	Recovery	RPD	
	cs′	LCSD	/	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene										
Trichloroethene	204	204	224	220	110	110	108	108	α/	2
Benzene										
Toluene										
Chlorobenzene										

Comments:	Refer to Laboratory	<u>Control Sample findings</u>	worksheet for list of qu	<u>ualifications and assoc</u>	<u>lated samples when re</u>	ported results do not	<u>agree within 10.0%</u>	of the
recalculated	results.							

LDC #:54047418

VALIDATION FINDINGS WORKSHEET Sample Calculation Verification

Page:_	of/_	
Reviewer:_	9	

METHOD: GC/MS VOA (EPA Method TO-15)

Were all reported results recalculated and verified for all level IV samples?

V/N N/A

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

 $(A_x)(I_s)(DF)$ Concentration = $\overline{(A_{is})(RRF)(V_o)(\%S)}$ Area of the characteristic ion (EICP) for the compound to be measured Area of the characteristic ion (EICP) for the specific internal standard Amount of internal standard added in nanograms (ng) Relative response factor of the calibration standard. **RRF** =Volume or weight of sample pruged in milliliters (ml) V。

or grams (g). Df Dilution factor.

%S Percent solids, applicable to soils and solid matrices Example:

	only.	<u></u>				
#	Sample ID	Compound		Reported Concentration	Calculated Concentration ()	Qualification
		S		6.68		
						
			: 			

Former Huck Manufacturing Site, Kingston, NY - LDC 54047

SDG: P2201472

Analytical Method	TO15											
Sample ID	Lab Sample ID	Chemical Name	Anal Date	Result	Validated	Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
HUCKIAF033022-1	P2201472-001	trichloroethylene	04/08/2022	0.68	Υ	Υ					0.10	ug/m3
HUCKIAF033022-1	P2201472-001	Tetrachloroethene	04/08/2022	0.22	Υ	Υ					0.099	ug/m3
HUCKIAF033022-1	P2201472-001	Cis-1,2-Dichloroethylene	04/08/2022		Υ	N	U		U	0.11	0.11	ug/m3
HUCKIAF033022-2	P2201472-002	Cis-1,2-Dichloroethylene	04/08/2022		Υ	N	U		U	0.11	0.11	ug/m3
HUCKIAF033022-2	P2201472-002	trichloroethylene	04/08/2022	0.58	Υ	Υ					0.11	ug/m3
HUCKIAF033022-2	P2201472-002	Tetrachloroethene	04/08/2022	0.23	Υ	Υ					0.11	ug/m3
HUCKIAFR033022-2	P2201472-003	Cis-1,2-Dichloroethylene	04/08/2022		Υ	N	U		U	0.10	0.10	ug/m3
HUCKIAFR033022-2	P2201472-003	trichloroethylene	04/08/2022	0.51	Υ	Υ					0.099	ug/m3
HUCKIAFR033022-2	P2201472-003	Tetrachloroethene	04/08/2022	0.19	Υ	Υ					0.095	ug/m3
HUCKIAF033022-3	P2201472-004	Cis-1,2-Dichloroethylene	04/08/2022		Υ	N	U		U	0.11	0.11	ug/m3
HUCKIAF033022-3	P2201472-004	trichloroethylene	04/08/2022	0.55	Υ	Υ					0.10	ug/m3
HUCKIAF033022-3	P2201472-004	Tetrachloroethene	04/08/2022	0.21	Υ	Υ					0.097	ug/m3
HUCKIAF033022-5	P2201472-005	Tetrachloroethene	04/09/2022	0.36	Υ	Υ					0.10	ug/m3
HUCKIAF033022-5	P2201472-005	trichloroethylene	04/09/2022	0.78	Υ	Υ					0.11	ug/m3
HUCKIAF033022-5	P2201472-005	Cis-1,2-Dichloroethylene	04/09/2022		Υ	N	U		U	0.11	0.11	ug/m3
HUCKIAF033022-6	P2201472-006	Cis-1,2-Dichloroethylene	04/09/2022		Υ	N	U		U	0.11	0.11	ug/m3
HUCKIAF033022-6	P2201472-006	trichloroethylene	04/09/2022	6.9	Υ	Υ					0.11	ug/m3
HUCKIAF033022-6	P2201472-006	Tetrachloroethene	04/09/2022	0.67	Υ	Υ					0.10	ug/m3
HUCKAA033022-1	P2201472-007	Cis-1,2-Dichloroethylene	04/09/2022		Υ	N	U		U	0.087	0.087	ug/m3
HUCKAA033022-1	P2201472-007	trichloroethylene	04/09/2022		Υ	N	U		U	0.084	0.084	ug/m3
HUCKAA033022-1	P2201472-007	Tetrachloroethene	04/09/2022		Υ	N	U		U	0.080	0.080	ug/m3
HUCKAA033022-2	P2201472-008	Cis-1,2-Dichloroethylene	04/09/2022		Υ	N	U		U	0.098	0.098	ug/m3
HUCKAA033022-2	P2201472-008	trichloroethylene	04/09/2022		Υ	N	U		U	0.094	0.094	ug/m3

SDG: P2201472

Analytical Method	TO15										
Sample ID	Lab Sample ID	Chemical Name	Anal Date Result	t Validate	d Detect	Lab Qual	Val Qual	Final qual	RL	MDL	Units
HUCKAA033022-2	P2201472-008	Tetrachloroethene	04/09/2022	Υ	N	U		U	0.090	0.090	ug/m3
TRIP BLANK	P2201472-009	Tetrachloroethene	04/08/2022	Υ	N	U		U	0.069	0.069	ug/m3
TRIP BLANK	P2201472-009	Cis-1,2-Dichloroethylene	04/08/2022	Υ	N	U		U	0.075	0.075	ug/m3
TRIP BLANK	P2201472-009	trichloroethylene	04/08/2022	Υ	N	U		U	0.072	0.072	ug/m3