

DATA PACKAGE

VOLATILE ORGANICS SEMI-VOLATILE ORGANICS

PROJECT NAME : OMH TANK PULL-011 - 078673-01 C-03

CHA COMPANIES, INC. III Winners Circle P.O. Box 5269

Albany, NY - 12205-0269

Phone No: 518-453-4500

ORDER ID: P4960

ATTENTION : Scott Smith



Laboratory Certification ID # 20012





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Client Sample Number

Cover Page

- **Order ID :** P4960
- Project ID : OMH Tank Pull-011 078673-01 C-03
 - **Client :** CHA Companies, Inc.

Lab Sample Number

P4960-01B1P4960-02B2P4960-03SW1P4960-04SW2P4960-05SW3P4960-06SW4

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

Date: 12/6/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



CASE NARRATIVE

CHA Companies, Inc. Project Name: OMH Tank Pull-011 - 078673-01 C-03 Project # N/A Chemtech Project # P4960 Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

6 Solid samples were received on 11/22/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis performed on instrument MSVOA_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator.The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for SW4 [1,2-Dichloroethane-d4 - 47%], This sample initially analyzed with VIAL A but sample did not purged therefore as corrective action lab reanalyzed the sample with VIAL B where surrogate fail but now no more vial left for confirmation therefore lab reported VIAL B as final.

The Internal Standards Areas met the acceptable requirements except for SW2, SW4, These sample were initially analyzed with VIAL A but samples did not purged therefore as corrective action lab reanalyzed the samples with VIAL B where surrogate fail but now no more vial left for confirmation therefore lab reported VIAL B as final.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike for {VY1125SBS02} with File ID: VY020431.D met requirements for all samples except for 1,3,5-Trimethylbenzene[125%], m/p-Xylenes[126%], o-Xylene[125%] and Toluene[124%] are failing high but no positive hit in associate sample therefore no corrective action taken.



The Blank Spike Duplicate for {VY1125SBSD02} with File ID: VY020441.D met requirements for all samples except for Benzene[130%], Ethyl Benzene[126%], m/p-Xylenes[131%], o-Xylene[128%] and Toluene[131%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination. The %RSD is greater than 20% in the Initial Calibration method (82X1121W.M) for Bromoform this compound is passing on Quadratic Regression.

The Continuous Calibration met the requirements . The Tuning criteria met requirements.

E. Additional Comments:

Sample SW3 was directly run in methanol as both low level soil vials did not purge.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples. The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signatura	



CASE NARRATIVE

CHA Companies, Inc. Project Name: OMH Tank Pull-011 - 078673-01 C-03 Project # N/A Chemtech Project # P4960 Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:

6 Solid samples were received on 11/22/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples. The MS recoveries met the requirements for all compounds . The MSD recoveries met the acceptable requirements . The RPD for {P4954-01MSD} with File ID: BF140626.D met criteria except for Benzo(k)fluoranthene[25%] . Due to Difference in MS and MSD concentrations. The Blank Spike for {PB165185BS} with File ID: BF140602.D met requirements for all samples except for Acenaphthylene[106%], Anthracene[106%], Benzo(a)anthracene[106%], Benzo(a)pyrene[112%] and Chrysene[106%] . But associated samples have not positive hit for these compounds therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements . The Tuning criteria met requirements.

E. Additional Comments:

The soil samples results are based on a dry weight basis.



Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____



DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	 Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
В	Indicates the analyte was found in the blank as well as the sample report as "12 B".
Е	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
Ν	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
Α	This flag indicates that a Tentatively Identified Compound is a suspected aldol- condensation product.
Q	Indicates the LCS did not meet the control limits requirements



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4960

Completed

For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u>√</u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u>✓</u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI



			Hit Sumn SW	nary Sheet 7-846			Α
SDG No.:	P4960						В
Client:	CHA Companie	s, Inc.					С
							D
Sample ID	Client ID	Matrix	Parameter	Concentration C	MDL	RDL U	J nits
Client ID:							
				0			

Total Voc :

Total Concentration:





A B C D



A B C

D

	Report	of	Ana	lysis
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Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	B1	SDG No.:	P4960
Lab Sample ID:	P4960-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	97.5
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020414.D	1		11/22/24 15:36	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.69	U	0.69	5.10	ug/Kg
71-43-2	Benzene	0.74	U	0.74	5.10	ug/Kg
108-88-3	Toluene	0.69	U	0.69	5.10	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	5.10	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.2	ug/Kg
95-47-6	o-Xylene	0.72	U	0.72	5.10	ug/Kg
98-82-8	Isopropylbenzene	0.69	U	0.69	5.10	ug/Kg
103-65-1	n-propylbenzene	0.66	U	0.66	5.10	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.66	U	0.66	5.10	ug/Kg
98-06-6	tert-Butylbenzene	0.69	U	0.69	5.10	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.10	ug/Kg
135-98-8	sec-Butylbenzene	0.69	U	0.69	5.10	ug/Kg
99-87-6	p-Isopropyltoluene	0.59	U	0.59	5.10	ug/Kg
104-51-8	n-Butylbenzene	0.64	U	0.64	5.10	ug/Kg
91-20-3	Naphthalene	1.50	U	1.50	5.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.7		50 - 163	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	48.2		58 - 134	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		29 - 146	94%	SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	140000	7.713			
540-36-3	1,4-Difluorobenzene	267000	8.622			
3114-55-4	Chlorobenzene-d5	244000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	91300	13.352			



Report of Analysis					
Client:	CHA Companies, Inc.		Date Collected:	11/21/24	
Project:	OMH Tank Pull-011 - 07867	73-01 C-03	Date Received:	11/22/24	
Client Sample ID:	B1		SDG No.:	P4960	
Lab Sample ID:	P4960-01		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	97.5	
Sample Wt/Vol:	5.01 Units: g		Final Vol:	5000	uL
Soil Aliquot Vol:	uL		Test:	VOCMS Grou	p1
GC Column:	RXI-624 ID : 0.2	5	Level :	LOW	
Prep Method :					
File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID	

VY020414.D	I			11/22/24 15:50	V Y 112224	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

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A B C

D

Report	of	Ana	lysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	B2	SDG No.:	P4960
Lab Sample ID:	P4960-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	93.6
Sample Wt/Vol:	5.09 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020415.D	1		11/22/24 16:00	VY112224

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.70	U	0.70	5.20	ug/Kg
71-43-2	Benzene	0.76	U	0.76	5.20	ug/Kg
108-88-3	Toluene	0.70	U	0.70	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.65	U	0.65	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.40	U	1.40	10.5	ug/Kg
95-47-6	o-Xylene	0.73	U	0.73	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.70	U	0.70	5.20	ug/Kg
103-65-1	n-propylbenzene	0.67	U	0.67	5.20	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.67	U	0.67	5.20	ug/Kg
98-06-6	tert-Butylbenzene	0.70	U	0.70	5.20	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.20	ug/Kg
135-98-8	sec-Butylbenzene	0.70	U	0.70	5.20	ug/Kg
99-87-6	p-Isopropyltoluene	0.61	U	0.61	5.20	ug/Kg
104-51-8	n-Butylbenzene	0.66	U	0.66	5.20	ug/Kg
91-20-3	Naphthalene	1.60	U	1.60	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		50 - 163	108%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	48.1		58 - 134	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		29 - 146	100%	SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	141000	7.713			
540-36-3	1,4-Difluorobenzene	268000	8.622			
3114-55-4	Chlorobenzene-d5	252000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	99000	13.352			



	Report of Analysis						
Client:	CHA Companies, Inc.	Date Collected:	11/21/24				
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24				
Client Sample ID:	B2	SDG No.:	P4960				
Lab Sample ID:	P4960-02	Matrix:	SOIL				
Analytical Method:	SW8260	% Solid:	93.6				
Sample Wt/Vol:	5.09 Units: g	Final Vol:	5000 uL				
Soil Aliquot Vol:	uL	Test:	VOCMS Group1				
GC Column:	RXI-624 ID : 0.25	Level :	LOW				
Prep Method :							
Eila ID/Oa Batahi	Dilution: Dron Data	Data Analyzad	Dron Dotah ID				
rite iD/Qc Batch:	Diution. Prep Date	Date Analyzed	Flep Batch ID				
VY020415.D	1	11/22/24 16:00	VY112224				

Qualifier

MDL

Conc.

U = Not Detected

CAS Number

Parameter

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

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Units

LOQ / CRQL



Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW1	SDG No.:	P4960
Lab Sample ID:	P4960-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	94.7
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020433.D	1		11/25/24 16:34	VY112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.70	U	0.70	5.20	ug/Kg
71-43-2	Benzene	0.75	UQ	0.75	5.20	ug/Kg
108-88-3	Toluene	0.70	UQ	0.70	5.20	ug/Kg
100-41-4	Ethyl Benzene	0.65	UQ	0.65	5.20	ug/Kg
179601-23-1	m/p-Xylenes	1.40	UQ	1.40	10.4	ug/Kg
95-47-6	o-Xylene	0.73	UQ	0.73	5.20	ug/Kg
98-82-8	Isopropylbenzene	0.70	U	0.70	5.20	ug/Kg
103-65-1	n-propylbenzene	0.67	U	0.67	5.20	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.67	UQ	0.67	5.20	ug/Kg
98-06-6	tert-Butylbenzene	0.70	U	0.70	5.20	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.20	ug/Kg
135-98-8	sec-Butylbenzene	0.70	U	0.70	5.20	ug/Kg
99-87-6	p-Isopropyltoluene	0.61	U	0.61	5.20	ug/Kg
104-51-8	n-Butylbenzene	0.66	U	0.66	5.20	ug/Kg
91-20-3	Naphthalene	1.60	U	1.60	5.20	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.7		50 - 163	89%	SPK: 50
1868-53-7	Dibromofluoromethane	46.9		54 - 147	94%	SPK: 50
2037-26-5	Toluene-d8	47.7		58 - 134	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		29 - 146	90%	SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	109000	7.713			
540-36-3	1,4-Difluorobenzene	194000	8.616			
3114-55-4	Chlorobenzene-d5	173000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	63900	13.346			

C D



		Report of Ana	alysis		
Client:	CHA Companies, Inc.		Date Collected:	11/21/24	
Project:	OMH Tank Pull-011 - 078	673-01 C-03	Date Received:	11/22/24	
Client Sample ID:	SW1		SDG No.:	P4960	
Lab Sample ID:	P4960-03		Matrix:	SOIL	
Analytical Method:	SW8260		% Solid:	94.7	
Sample Wt/Vol:	5.06 Units: g		Final Vol:	5000	uL
Soil Aliquot Vol:	uL		Test:	VOCMS Group1	
GC Column:	RXI-624 ID : 0	0.25	Level :	LOW	
Prep Method :					
File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID	
VY020433.D	1		11/25/24 16:34	VY112524	

Qualifier

MDL

Conc.

CAS Number

Parameter

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

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Units

LOQ / CRQL



Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW2	SDG No.:	P4960
Lab Sample ID:	P4960-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.9
Sample Wt/Vol:	5.02 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020434.D	1		11/25/24 16:57	VY112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.74	U	0.74	5.50	ug/Kg
71-43-2	Benzene	0.80	UQ	0.80	5.50	ug/Kg
108-88-3	Toluene	0.74	UQ	0.74	5.50	ug/Kg
100-41-4	Ethyl Benzene	0.69	UQ	0.69	5.50	ug/Kg
179601-23-1	m/p-Xylenes	1.50	UQ	1.50	11.1	ug/Kg
95-47-6	o-Xylene	0.78	UQ	0.78	5.50	ug/Kg
98-82-8	Isopropylbenzene	0.74	U	0.74	5.50	ug/Kg
103-65-1	n-propylbenzene	0.71	U	0.71	5.50	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.71	UQ	0.71	5.50	ug/Kg
98-06-6	tert-Butylbenzene	0.74	U	0.74	5.50	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.50	U	1.50	5.50	ug/Kg
135-98-8	sec-Butylbenzene	0.74	U	0.74	5.50	ug/Kg
99-87-6	p-Isopropyltoluene	0.64	U	0.64	5.50	ug/Kg
104-51-8	n-Butylbenzene	0.70	U	0.70	5.50	ug/Kg
91-20-3	Naphthalene	1.70	U	1.70	5.50	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.4		50 - 163	87%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		54 - 147	95%	SPK: 50
2037-26-5	Toluene-d8	45.2		58 - 134	90%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.5		29 - 146	75%	SPK: 50
INTERNAL STA	ANDARDS					
363-72-4	Pentafluorobenzene	25400	7.713			
540-36-3	1,4-Difluorobenzene	42500	8.616			
3114-55-4	Chlorobenzene-d5	33600	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	10400	13.346			

C D



Report of Analysis							
Client:	CHA Companies, Inc.		Date Collected:	11/21/24			
Project:	OMH Tank Pull-011 - 07867	3-01 C-03	Date Received:	11/22/24			
Client Sample ID:	SW2		SDG No.:	P4960			
Lab Sample ID:	P4960-04		Matrix:	SOIL			
Analytical Method:	SW8260		% Solid:	89.9			
Sample Wt/Vol:	5.02 Units: g		Final Vol:	5000	uL		
Soil Aliquot Vol:	uL		Test:	VOCMS Group1			
GC Column:	RXI-624 ID : 0.25	5	Level :	LOW			
Prep Method :					J		
File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID			
VY020434.D	1		11/25/24 16:57	VY112524			

Qualifier

MDL

Conc.

Parameter

U = Not Detected

- LOQ = Limit of Quantitation
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- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
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- J = Estimated Value
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LOQ / CRQL

Units

- N = Presumptive Evidence of a Compound
- * = Values outside of QC limits
- D = Dilution
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- A = Aldol-Condensation Reaction Products

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С	

Report of Analysi

Client:	CHA Companies, Inc.	Date Collected:	11/21/24
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24
Client Sample ID:	SW3	SDG No.:	P4960
Lab Sample ID:	P4960-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	95.4
Sample Wt/Vol:	5.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	100 uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID: 0.18	Level :	MED
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044086.D	1		12/03/24 12:10	VX120324

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight
TARGETS						
1634-04-4	Methyl tert-butyl Ether	69.7	U	69.7	520	ug/Kg
71-43-2	Benzene	74.9	U	74.9	520	ug/Kg
108-88-3	Toluene	69.7	U	69.7	520	ug/Kg
100-41-4	Ethyl Benzene	64.5	U	64.5	520	ug/Kg
179601-23-1	m/p-Xylenes	140	U	140	1000	ug/Kg
95-47-6	o-Xylene	72.8	U	72.8	520	ug/Kg
98-82-8	Isopropylbenzene	69.7	U	69.7	520	ug/Kg
103-65-1	n-propylbenzene	66.6	U	66.6	520	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	66.6	U	66.6	520	ug/Kg
98-06-6	tert-Butylbenzene	69.7	U	69.7	520	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	140	U	140	520	ug/Kg
135-98-8	sec-Butylbenzene	69.7	U	69.7	520	ug/Kg
99-87-6	p-Isopropyltoluene	60.3	U	60.3	520	ug/Kg
104-51-8	n-Butylbenzene	65.5	U	65.5	520	ug/Kg
91-20-3	Naphthalene	150	U	150	520	ug/Kg
SURROGATES						., .,
17060-07-0	1,2-Dichloroethane-d4	51.3		50 - 163	103%	SPK: 50
1868-53-7	Dibromofluoromethane	44.1		54 - 147	88%	SPK: 50
2037-26-5	Toluene-d8	50.3		58 - 134	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		29 - 146	106%	SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	118000	5.544			
540-36-3	1,4-Difluorobenzene	229000	6.757			
3114-55-4	Chlorobenzene-d5	206000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	93400	12.018			



11/21/	/24	

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CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
VX044086.D	1			12/03/24 12:10	VX120324	
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
Prep Method :						
GC Column:	DB-624UI	ID: 0.18		Level :	MED	
Soil Aliquot Vol:	100	uL		Test:	VOCMS Group1	
Sample Wt/Vol:	5.04 Units:	g		Final Vol:	10000	uL
Analytical Method:	SW8260			% Solid:	95.4	
Lab Sample ID:	P4960-05			Matrix:	SOIL	
Client Sample ID:	SW3			SDG No.:	P4960	
Project:	OMH Tank Pull-0	11 - 078673-01 C-03		Date Received:	11/22/24	
Client:	CHA Companies,	Inc.		Date Collected:	11/21/24	

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- D = Dilution
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Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	11/21/24	
Project:	OMH Tank Pull-011 - 078673-01 C-03	Date Received:	11/22/24	
Client Sample ID:	SW4	SDG No.:	P4960	
Lab Sample ID:	P4960-06	Matrix:	SOIL	
Analytical Method:	SW8260	% Solid:	96.5	
Sample Wt/Vol:	5.1 Units: g	Final Vol:	5000 uL	
Soil Aliquot Vol:	uL	Test:	VOCMS Group1	
GC Column:	RXI-624 ID: 0.25	Level :	LOW	
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020436.D	1		11/25/24 17:44	VY112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	5.10	ug/Kg
71-43-2	Benzene	0.73	UQ	0.73	5.10	ug/Kg
108-88-3	Toluene	0.68	UQ	0.68	5.10	ug/Kg
100-41-4	Ethyl Benzene	0.63	UQ	0.63	5.10	ug/Kg
179601-23-1	m/p-Xylenes	1.40	UQ	1.40	10.2	ug/Kg
95-47-6	o-Xylene	0.71	UQ	0.71	5.10	ug/Kg
98-82-8	Isopropylbenzene	0.68	U	0.68	5.10	ug/Kg
103-65-1	n-propylbenzene	0.65	U	0.65	5.10	ug/Kg
108-67-8	1,3,5-Trimethylbenzene	0.65	UQ	0.65	5.10	ug/Kg
98-06-6	tert-Butylbenzene	0.68	U	0.68	5.10	ug/Kg
95-63-6	1,2,4-Trimethylbenzene	1.40	U	1.40	5.10	ug/Kg
135-98-8	sec-Butylbenzene	0.68	U	0.68	5.10	ug/Kg
99-87-6	p-Isopropyltoluene	0.59	U	0.59	5.10	ug/Kg
104-51-8	n-Butylbenzene	0.64	U	0.64	5.10	ug/Kg
91-20-3	Naphthalene	1.50	U	1.50	5.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	23.7	*	50 - 163	47%	SPK: 50
1868-53-7	Dibromofluoromethane	42.5		54 - 147	85%	SPK: 50
2037-26-5	Toluene-d8	43.1		58 - 134	86%	SPK: 50
460-00-4	4-Bromofluorobenzene	21.0		29 - 146	42%	SPK: 50
INTERNAL STA	NDARDS					
363-72-4	Pentafluorobenzene	16400	7.713			
540-36-3	1,4-Difluorobenzene	22400	8.616			
3114-55-4	Chlorobenzene-d5	13800	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	2510	13.347			

C D



Report of Analysis									
Client:	CHA Companies, Ir	IC.	Date Collected:	11/21/24					
Project:	OMH Tank Pull-01	- 078673-01 C-03	Date Received:	11/22/24					
Client Sample ID:	SW4		SDG No.:	P4960					
Lab Sample ID:	P4960-06		Matrix:	SOIL					
Analytical Method:	SW8260		% Solid:	96.5					
Sample Wt/Vol:	5.1 Units:	g	Final Vol:	5000 uL					
Soil Aliquot Vol:		uL	Test:	VOCMS Group1					
GC Column:	RXI-624 II	D: 0.25	Level :	LOW					
Prep Method :									
					\leq				
File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID					
VY020436.D	1		11/25/24 17:44	VY112524					

Qualifier

MDL

Conc.

CAS Number

Parameter

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LOQ / CRQL

Units

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LAB CHRONICLE

OrderID: Client: Contact:	P4960 CHA Companies, Inc. Scott Smith			OrderDate: Project: Location:	11/22/2024 10:4 OMH Tank Pull M11,VOA Ref. a			
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4960-01	B1	SOIL			11/21/24			11/22/24
			VOCMS Group1	8260D			11/22/24	
P4960-02	B2	SOIL			11/21/24			11/22/24
			VOCMS Group1	8260D			11/22/24	
P4960-03	SW1	SOIL			11/21/24			11/22/24
			VOCMS Group1	8260D			11/25/24	
P4960-04	SW2	SOIL			11/21/24			11/22/24
			VOCMS Group1	8260D			11/25/24	
P4960-05	SW3	SOIL			11/21/24			11/22/24
			VOCMS Group1	8260D			11/27/24	
			VOCMS Group1	8260D			12/03/24	
P4960-06	SW4	SOIL			11/21/24			11/22/24
			VOCMS Group1	8260D			11/25/24	

A B C D



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

		E	3
Hit Summary Sheet SW-846		C	0
		Ľ	D

SDG No.:	P4960							
Client:	CHA Companies, Inc.							
Sample ID Client ID :	Client ID	Matrix	Parameter	Concentration	С	MDL	RDL	Units
				0.00)			
			Total Svoc :		0.	00		
			Total Concentration:		0	.00		





A B C D



Report of Analysis

/21/24 /22/24 960 0IL .5 00 uL TOCMS Group1
/22/24 960 0IL .5 00 uL TOCMS Group1
960 DIL .5 DO uL TOCMS Group1
DIL .5 D0 uL 'OCMS Group1
.5 00 uL 'OCMS Group1
.5 00 uL 'OCMS Group1
00 uL 'OCMS Group1
OCMS Group1
)W
PH :
Batch ID
5185
RQL Units(Dry Weigh
ug/Kg
SPK: 100
SPK: 100
SPK: 100

1520-96-3

Perylene-d12

15.545



Report of Analysis										
Client:	CHA Com	ipanies, Ir	IC.				Date Collected:		11/21/24	1
Project:	OMH Tan	k Pull-01	- 078673-01 (C-03			Date Received:		11/22/24	1
Client Sample ID:	B1						SDG No.:		P4960	
Lab Sample ID:	P4960-01						Matrix:		SOIL	
Analytical Method:	SW8270						% Solid:		97.5	
Sample Wt/Vol:	30.01	Units:	g				Final Vol:		1000	uL
Soil Aliquot Vol:			uL				Test:		SVOCM	IS Group1
Extraction Type :			Γ	Decanted :	N		Level :		LOW	
Injection Volume :			GPC Fact	or: 1.0			GPC Cleanup :	Ν		PH :
Prep Method :	SW3541						_			
File ID/Qc Batch:	Dilution:		Prep D	Date		Date A	Analyzed	Р	rep Batch	ID
BF140610.D	1		11/22/	24 08:55		11/25/	24 18:34	Р	B165185	
CAS Number Para	meter		Conc.	Qua	alifier	MDL		LOC	Q / CRQL	Units

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С



Report of Analysis

A B C

D

Client:	CHA Companies,	Inc.				Date Collected:	11/21/24	
Project:	OMH Tank Pull-0	11 - 078	673-01 C-03			Date Received:	11/22/24	Ļ
Client Sample II	D: B2					SDG No.:	P4960	
Lah Sample ID:	P4960-02					Matrix	SOIL	
Analytical Math	- J. SW8270					0/ C-1:4	02 (
Analytical Metho	od: Sw8270					% Solid:	93.0	
Sample Wt/Vol:	30.02 Units:	g				Final Vol:	1000	uL
Soil Aliquot Vol:	:	uL				Test:	SVOCM	IS Group1
Extraction Type	:		Decan	ted : N		Level :	LOW	
Injection Volume	2:	G	PC Factor :	1.0		GPC Cleanup :	Ν	PH :
Prep Method :	SW3541							
File ID/Qc Batch:	Dilution:		Prep Date		Date	Analyzed	Prep Batch	ID
BF140636.D	1		11/22/24 08	8:55	11/26	/24 12:44	PB165185	
CAS Number	Parameter		Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)
TARGETS			0 0 4				100	
208-96-8	Acenaphthylene		92.4	UQ	92.4		180	ug/Kg
83-32-9	Acenaphthene		86.6	U	86.6		180	ug/Kg
80-/3-/	Fluorene		91.3	U	91.3		180	ug/Kg
85-01-8	Anthropone		89.7 00.1	U	89.7 00.1		180	ug/Kg
120-12-7	Anthracene Elizarenthen e		90.1	UQ	90.1		180	ug/Kg
206-44-0	Fluoranthene		87.2	U	87.2		180	ug/Kg
129-00-0	Pyrene		88.6	U	88.6		180	ug/Kg
56-55-3	Benzo(a)anthracene		86.2	UQ	86.2		180	ug/Kg
218-01-9	Chrysene		84.9	UQ	84.9		180	ug/Kg
205-99-2	Benzo(b)fluoranthene		86.6	U	86.6		180	ug/Kg
207-08-9	Benzo(k)fluoranthene		88.2	U	88.2		180	ug/Kg
50-32-8	Benzo(a)pyrene		99.3	UQ	99.3		180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene		83.4	U	83.4		180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene		86.7	U	86.7		180	ug/Kg
191-24-2	Benzo(g,h,i)perylene		85.5	U	85.5		180	ug/Kg
SURROGATES								
4165-60-0	Nitrobenzene-d5		61.2		18 - 107		61%	SPK: 100
321-60-8	2-Fluorobiphenyl		62.5		20 - 109		63%	SPK: 100
1718-51-0	Terphenyl-d14		63.5		10 - 105		64%	SPK: 100
INTERNAL STAN	DARDS							
3855-82-1	1,4-Dichlorobenzene-d4		80600	6.869				
1146-65-2	Naphthalene-d8		317000	8.151				
15067-26-2	Acenaphthene-d10		169000	9.904				
1517-22-2	Phenanthrene-d10		307000	11.398				
1719-03-5	Chrysene-d12		165000	14.045				

1520-96-3

Perylene-d12

15.539



Report of Analysis										
Client:	CHA Compan	ies, Inc.					Date Collected:		11/21/24	ŀ
Project:	OMH Tank Pu	ull-011 - 078	673-01 C-03				Date Received:		11/22/24	Ļ
Client Sample ID:	B2						SDG No.:		P4960	
Lab Sample ID:	P4960-02						Matrix:		SOIL	
Analytical Method:	SW8270						% Solid:		93.6	
Sample Wt/Vol:	30.02 Ur	nits: g					Final Vol:		1000	uL
Soil Aliquot Vol:		uL					Test:		SVOCM	IS Group1
Extraction Type :			Decan	ted :	N		Level :		LOW	
Injection Volume :		G	GPC Factor :	1.0			GPC Cleanup :	Ν		PH :
Prep Method :	SW3541									
File ID/Qc Batch:	Dilution:		Prep Date			Date A	nalyzed	P	rep Batch	ID
BF140636.D	1		11/22/24 08	:55		11/26/2	24 12:44	P	B165185	
CAS Number Para	meter		Conc.	Quali	fier	MDL		LOQ	/ CRQL	Units

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С



1520-96-3

Perylene-d12

Report of Analysis

Client:	CHA Companies,	Inc.			Date Collected: 11/21/24				
Project:	OMH Tank Pull-0	11 - 078673-01 C-03	3		Date Received:	11/22/24	ŀ		
Client Sample	ID: SW1				SDG No.:	P4960			
Lab Sample ID	D: P4960-03				Matrix:	SOIL			
Analytical Met	thod [.] SW8270				% Solid [.]	94 7			
Sampla Wt/Ma	1: 20.02 Unite:	~			Final Val:	1000	υĪ		
	a. 30.02 Onus.	g				1000	uL		
Soil Aliquot Vo	ol:	uL			Test:	SVOCM	iS Group1		
Extraction Typ	be :	Deca	nted : N	I	Level :	LOW			
Injection Volu	me :	GPC Factor :	1.0		GPC Cleanup :	Ν	PH :		
Prep Method :	SW3541								
File ID/Qc Batcl	h: Dilution:	Prep Date		Date	Analyzed	Prep Batch	ID		
BF140638.D	1	11/22/24 ()8:55	11/26	5/24 13:36	PB165185			
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)		
TADCETS									
208-96-8	Acenaphthylene	91.3	UO	91.3		180	ug/Kg		
83-32-9	Acenaphthene	85.6	U	85.6		180	ug/Kg		
86-73-7	Fluorene	90.2	U	90.2		180	ug/Kg		
85-01-8	Phenanthrene	88.6	U	88.6		180	ug/Kg		
120-12-7	Anthracene	89.1	UQ	89.1		180	ug/Kg		
206-44-0	Fluoranthene	86.2	U	86.2		180	ug/Kg		
129-00-0	Pyrene	87.6	U	87.6		180	ug/Kg		
56-55-3	Benzo(a)anthracene	85.2	UQ	85.2		180	ug/Kg		
218-01-9	Chrysene	83.9	UQ	83.9		180	ug/Kg		
205-99-2	Benzo(b)fluoranthene	85.6	U	85.6		180	ug/Kg		
207-08-9	Benzo(k)fluoranthene	87.2	U	87.2		180	ug/Kg		
50-32-8	Benzo(a)pyrene	98.1	UQ	98.1		180	ug/Kg		
193-39-5	Indeno(1,2,3-cd)pyrene	82.4	U	82.4		180	ug/Kg		
53-70-3	Dibenzo(a,h)anthracene	85.7	U	85.7		180	ug/Kg		
191-24-2	Benzo(g,h,i)perylene	84.5	U	84.5		180	ug/Kg		
SURROGATES									
4165-60-0	Nitrobenzene-d5	60.7		18 - 107		61%	SPK: 100		
321-60-8	2-Fluorobiphenyl	63.4		20 - 109		63%	SPK: 100		
1718-51-0	Terphenyl-d14	67.8		10 - 105		68%	SPK: 100		
INTERNAL STA	NDARDS								
3855-82-1	1,4-Dichlorobenzene-d4	73400	6.869						
1146-65-2	Naphthalene-d8	268000	8.151						
15067-26-2	Acenaphthene-d10	142000	9.904						
1517-22-2	Phenanthrene-d10	270000	11.398						
1719-03-5	Chrysene-d12	147000	14.045						

15.533



Report of Analysis	
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CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ	CRQL	Units
BF140638.D	1		11/22/24 08	3:55	11/26/24 13:36	PB	165185	
File ID/Qc Batch:	Dilution:		Prep Date		Date Analyzed	Pre	p Batch ID	
Prep Method :	SW3541							
Injection Volume	:		GPC Factor :	1.0	GPC Clea	nup : N	PH :	
Extraction Type :			Decan	ted : N	Level :		LOW	
Soil Aliquot Vol:			uL		Test:		SVOCMS Gro	up1
Sample Wt/Vol:	30.02	Units:	g		Final Vol:		1000	uL
Analytical Metho	d: SW8270				% Solid:		94.7	
Lab Sample ID:	P4960-03				Matrix:		SOIL	
Client Sample ID:	SW1				SDG No.:		P4960	
Project:	OMH Tank	Pull-011	- 078673-01 C-03		Date Rece	eived:	11/22/24	
Client:	CHA Comp	anies, Inc	2.		Date Colle	ected:	11/21/24	

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- * = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products



Report of Analysis

Client:	CHA Companies,	Inc.			Date Collected:	11/21/24	
Project:	OMH Tank Pull-0	11 - 078673-01 C-03			Date Received:	11/22/24	
Client Sample I	D: SW2				SDG No.:	P4960	
I ab Sample ID:	P4960-04				Matrix:	SOII	
	1 4700-04					SOIL	
Analytical Meth	nod: SW8270				% Solid:	89.9	
Sample Wt/Vol:	30.05 Units:	g			Final Vol:	1000	uL
Soil Aliquot Vol	:	uL			Test:	SVOCM	S Group1
Extraction Type	:	Decan	ted : N		Level :	LOW	
Injection Volum	e ·	GPC Factor ·	1.0		GPC Cleanup ·	N	₽Н∙
Dran Mathad :	SW2541				or e crountip :		
Prep Method :	5W3341						
File ID/Qc Batch:	Dilution:	Prep Date		Date	Analyzed	Prep Batch I	D
BF140634.D	1	11/22/24 08	3:55	11/26	/24 11:52	PB165185	
CAS Number	Parameter	Conc.	Oualifier	MDL		LOO / CROL	Units(Drv Weight
			Z				
TARGETS							
208-96-8	Acenaphthylene	96.1	UQ	96.1		190	ug/Kg
83-32-9	Acenaphthene	90.1	U	90.1		190	ug/Kg
86-73-7	Fluorene	94.9	U	94.9		190	ug/Kg
85-01-8	Phenanthrene	93.3	U	93.3		190	ug/Kg
120-12-7	Anthracene	93.7	UQ	93.7		190	ug/Kg
206-44-0	Fluoranthene	90.7	U	90.7		190	ug/Kg
129-00-0	Pyrene	92.2	U	92.2		190	ug/Kg
56-55-3	Benzo(a)anthracene	89.6	UQ	89.6		190	ug/Kg
218-01-9	Chrysene	88.3	UQ	88.3		190	ug/Kg
205-99-2	Benzo(b)fluoranthene	90.1	U	90.1		190	ug/Kg
207-08-9	Benzo(k)fluoranthene	91.7	U	91.7		190	ug/Kg
50-32-8	Benzo(a)pyrene	100	UQ	100		190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.7	U	86.7		190	ug/Kg
53-70-3	Dibenzo(a.h)anthracene	90.2	U	90.2		190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	89.0	U	89.0		190	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	69.6		18 - 107		70%	SPK: 100
321-60-8	2-Fluorobiphenvl	69.9		20 - 109		70%	SPK: 100
1718-51-0	Terphenyl-d14	74.4		10 - 105		74%	SPK: 100
INTERNAL STAN	JDARDS						
3855-82-1	1 4-Dichlorobenzene-d4	88000	6 869				
1146-65-2	Nanhthalene-d8	330000	8 1 5 1				
15067-26-2	Acenanhthene-d10	180000	9 904				
1517_22 2	Phenanthrene d10	220000	11 200				
1710 03 5	Chrysone d12	164000	11.370				
1/17-03-3	CIII y SUIIC-U12	104000	14.043				

1520-96-3

Perylene-d12

15.533



		Repor	t of Analy	vsis		
Client:	CHA Compani	es, Inc.		Date Collected:	11/21/24	
Project:	OMH Tank Pu	ll-011 - 078673-01 C-03		Date Received:	11/22/24	
Client Sample ID:	SW2			SDG No.:	P4960	
Lab Sample ID:	P4960-04			Matrix:	SOIL	
Analytical Method:	SW8270			% Solid:	89.9	
Sample Wt/Vol:	30.05 Un	its: g		Final Vol:	1000	uL
Soil Aliquot Vol:		uL		Test:	SVOCMS	Group1
Extraction Type :		Deca	nted : N	Level :	LOW	
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	Ν	PH :
Prep Method :	SW3541					
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch II)
BF140634.D	1	11/22/24 0	8:55	11/26/24 11:52	PB165185	
CAS Number Para	meter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
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- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

С



C D

		Repor	t of Anal	ysis			
Client:	CHA Companies,	Inc.			Date Collected:	11/21/24	
Project:	OMH Tank Pull-0	11 - 078673-01 C-03			Date Received:	11/22/24	
Client Sample 1	ID: SW3				SDG No :	P/960	
	D. 5W5					14700	
Lab Sample ID	: P4960-05				Matrix:	SOIL	
Analytical Met	hod: SW8270				% Solid:	95.4	
Sample Wt/Vol	: 30.01 Units:	g			Final Vol:	1000	uL
Soil Aliquot Vo	1:	uL			Test:	SVOCM	IS Group1
Extraction Type	2:	Decan	ited : N		Level :	LOW	
Injection Volun	ne :	GPC Factor :	1.0		GPC Cleanup :	Ν	PH :
Prep Method :	SW3541						
	D 1	D D (D.			
File ID/Qc Batch	: Dilution:	Prep Date		Date A	Analyzed	Prep Batch	ID
BF140611.D	1	11/22/24 08	8:55	11/25/	/24 19:00	PB165185	
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)
TARGETS	Acanonhthulana	00.6	ЦО	00.6		180	ug/V g
208-90-8	Acenaphthene	90.0 85.0	UQ U	90.0 85.0		180	ug/Kg
86-73-7	Fluorene	89.6	U	89.6		180	ug/Kg ug/Kg
85-01-8	Phenanthrene	88.0	U	88.0		180	ug/Kg
120-12-7	Anthracene	88.4	UO	88.4		180	ug/Kg
206-44-0	Fluoranthene	85.6	U	85.6		180	ug/Kg
129-00-0	Pvrene	87.0	U	87.0		180	ug/Kg
56-55-3	Benzo(a)anthracene	84.6	UQ	84.6		180	ug/Kg
218-01-9	Chrysene	83.3	UÔ	83.3		180	ug/Kg
205-99-2	Benzo(b)fluoranthene	85.0	U	85.0		180	ug/Kg
207-08-9	Benzo(k)fluoranthene	86.6	U	86.6		180	ug/Kg
50-32-8	Benzo(a)pyrene	97.5	UQ	97.5		180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	81.8	U	81.8		180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	85.1	U	85.1		180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	83.9	U	83.9		180	ug/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	66.6		18 - 107		67%	SPK: 100
321-60-8	2-Fluorobiphenyl	71.0		20 - 109		71%	SPK: 100
1718-51-0	Terphenyl-d14	63.9		10 - 105		64%	SPK: 100
INTERNAL STAI	NDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	58400	6.869				
1146-65-2	Naphthalene-d8	221000	8.151				
15067-26-2	Acenaphthene-d10	117000	9.904				
1517-22-2	Phenanthrene-d10	220000	11.392				
1719-03-5	Chrysene-d12	146000	14.045				

1520-96-3

15.551



		Rep	oort of Ar	nalys	sis		
Client:	CHA Compar	nies, Inc.			Date Collected:	11/21/24	
Project:	OMH Tank P	ull-011 - 078673-01 C	-03		Date Received:	11/22/24	
Client Sample ID:	SW3				SDG No.:	P4960	
Lab Sample ID:	P4960-05				Matrix:	SOIL	
Analytical Method:	SW8270				% Solid:	95.4	
Sample Wt/Vol:	30.01 U	nits: g			Final Vol:	1000	uL
Soil Aliquot Vol:		uL			Test:	SVOCM	S Group1
Extraction Type :		D	ecanted :	Ν	Level :	LOW	
Injection Volume :		GPC Fact	or: 1.0		GPC Cleanup :	Ν	PH :
Prep Method :	SW3541						
File ID/Qc Batch:	Dilution:	Prep D	ate		Date Analyzed	Prep Batch I	D
BF140611.D	1	11/22/2	24 08:55		11/25/24 19:00	PB165185	
CAS Number Para	neter	Conc.	Qualif	ïer	MDL	LOQ / CRQL	Units

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
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Report of Analysis

A B C D

Client:	CHA Companies,	Inc.			Date Collected:	11/21/24	
Project:	OMH Tank Pull-0	11 - 078673-01 C-03			Date Received:	11/22/24	
Client Sample II	D: SW4				SDG No.:	P4960	
Lab Sample ID [.]	P4960-06				Matrix:	SOIL	
Analytical Math	cd: SW2270				0/ Salid	06.5	
Analytical Metho	od: Sw8270				% Solid:	90.5	
Sample Wt/Vol:	30.03 Units:	g			Final Vol:	1000	uL
Soil Aliquot Vol:	:	uL			Test:	SVOCM	S Group1
Extraction Type	:	Decan	ted : N		Level :	LOW	
Injection Volume	e :	GPC Factor :	1.0		GPC Cleanup :	N	PH :
Prep Method :	SW3541						
File ID/Oc Batch:	Dilution:	Prep Date		Date A	Analyzed	Prep Batch	D
BE1/0625 D	1	11/22/24 00	2.55	11/26	/2/ 12.18	DR165185	
DF140055.D	I	11/22/24 00		11/20/	12.10	10103103	
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / CRQL	Units(Dry Weight)
TARGETS	A	20.5		20.5		100	
208-90-8	Acenaphthene	89.5	UQ	89.5 84.0		180	ug/Kg
85-52-9 86 72 7	Eluorano	84.0 88 5	U	84.0 88 5		180	ug/Kg
85 01 9	Phonenthrono	88.J 87.0	U	00.J 97.0		180	ug/Kg
83-01-8 120, 12, 7	Anthragana	87.0	U	87.0 87.4		180	ug/Kg
120-12-7	Fluerenthene	87.4 94.6	UQ	87.4 87.6		180	ug/Kg
200-44-0	Puorantinene	84.0 85.0	U	84.0 85.0		180	ug/Kg
129-00-0	Pyrene Denne (a) anti-	85.9	U	85.9		180	ug/Kg
50-55-5 218-01-0	Benzo(a)anthracene	83.3	UQ	83.3		180	ug/Kg
218-01-9	Chrysene	82.3	UQ	82.3		180	ug/Kg
205-99-2	Benzo(b)fluoranthene	84.0	U	84.0		180	ug/Kg
207-08-9	Benzo(k)fluoranthene	85.5	U	85.5		180	ug/Kg
50-32-8	Benzo(a)pyrene	96.3	UQ	96.3		180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	80.9	U	80.9		180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	84.1	U	84.1		180	ug/Kg
191-24-2	Benzo(g,h,1)perylene	82.9	U	82.9		180	ug/Kg
SURROGATES		(a a				(a) (
4165-60-0	Nitrobenzene-d5	62.9		18 - 107		63%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.2		20 - 109		66%	SPK: 100
1718-51-0	Terphenyl-d14	69.2		10 - 105		69%	SPK: 100
INTERNAL STAN	DARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73600	6.869				
1146-65-2	Naphthalene-d8	274000	8.151				
15067-26-2	Acenaphthene-d10	146000	9.904				
1517-22-2	Phenanthrene-d10	266000	11.398				
1719-03-5	Chrysene-d12	149000	14.045				

1520-96-3

Perylene-d12

15.539



			Report	of An	aly	sis				
Client:	CHA Compani	es, Inc.					Date Collected:		11/21/24	Ļ
Project:	OMH Tank Pu	ll-011 - 07867	3-01 C-03				Date Received:		11/22/24	Ļ
Client Sample ID:	SW4						SDG No.:		P4960	
Lab Sample ID:	P4960-06						Matrix:		SOIL	
Analytical Method:	SW8270						% Solid:		96.5	
Sample Wt/Vol:	30.03 Un	its: g					Final Vol:		1000	uL
Soil Aliquot Vol:		uL					Test:		SVOCM	IS Group1
Extraction Type :			Decant	ted :	Ν		Level :		LOW	
Injection Volume :		GP	C Factor :	1.0			GPC Cleanup :	Ν		PH :
Prep Method :	SW3541									
File ID/Qc Batch:	Dilution:		Prep Date			Date A	nalyzed	P	rep Batch	ID
BF140635.D	1		11/22/24 08	:55		11/26/2	24 12:18	P	B165185	
CAS Number Para	meter		Conc.	Qualifi	ier	MDL		LOQ	Q / CRQL	Units

U = Not Detected

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- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
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- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

6

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LAB CHRONICLE

OrderID: Client: Contact:	P4960 CHA Companies, Inc. Scott Smith			OrderDate: Project: Location:	11/22/2024 10: OMH Tank Pull M11,VOA Ref. :	42:00 AM -011 - 078673- #2 Soil	01 C-03	
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4960-01	B1	SOIL		92705	11/21/24	11/22/24	11/25/24	11/22/24
P4960-02	2 B2	SOIL		0270E	11/21/24	11/22/24	11/25/24	11/22/24
P4960-03	3 SW1	SOIL		8270E	11/21/24	11/22/24	11/20/24	11/22/24
P4960-04	sw2	SOIL		0270E	11/21/24	11/22/24	11/20/24	11/22/24
P4960-05	5 SW3	SOIL		8270E	11/21/24	11/22/24	11/20/24	11/22/24
P4960-06	5 SW4	SOIL	SVOCMS Group1	8270L	11/21/24	11/22/24	11/26/24	11/22/24



<u>SHIPPING</u> DOCUMENTS

CHE CHAIN OF C	CUSTODY RECORD	284 S (!	284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 • Fax (908) 789-8922 www.chemtech.net								CHEMTECH PROJECT NO. P4960 QUOTE NO. COC Number 2041761						
	CLIENT INFORMATION	124,		CLIENT P	ROJECT IN	IFORMA	TION		20	1 4			CLIENT BILLING INFORMATION				
COMPANY:	REPORT TO BE SENT TO: CHA Consulting, Inc 3 Winners Circle Suite 100 122.05 Anu Consulting State NV ZIP:	PROJECT NAME: OMH TANK Pull -OII BILL TO: 1 PROJECT NO.: 678673 LOCATION: South Beach PROJECT MANAGER: Scott Smith CITY					0: ' i'n ESS:	Jee	vaicae chasolutiens.com see NTP C/07			7/D ²					
ATTENTION	South Sauth	e-mail: S	C ma l	620	Deba	Sale	tim	1		ATTEN					DUC		2.11 .
FAX (RUSH) HARDCOPY (D/ EDD: *TO BE APPRO STANDARD HA	525772.50 FAX: V/A 525772.50 FAX: V/A DATA TURNAROUND INFORMATION DAYS* ATA PACKAGE: DAYS* DAYS* DAYS* VED BY CHEMTECH TIME IS 10 BUSINESS DAYS	PHONE: PHONE: Level Level + Rav EDD F	315 4 DAT/ 1 (Results 2 (Results 3 (Results w Data) 50RMAT _	27 10 DELIVE Only) = + QC) = + QC = -	33 FA RABLE IN Level 4 (QC NJ Reduce NYS ASP A Other	X: FORM + Full F d Q US	ATION daw Data S EPA CL S ASP B		10	ATTEN SVID	abel 5	6	///	AN	ALYSIS		
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE dw gwg gwg	SA COLL DATE	MPLE ECTION TIME	# OF BOTTLES	1	2	3	PRES	5	6	7	8	9	← Speci A-HCI B-HN03 C-H2SO4	MMENTS fy Preservatives D-NaOH E-ICE F-OTHER
1.	BI	S	X	11/21	1105	2	\times	\times									
2.	R2	S	X	1	1216	2	X	V									
3.	SWI	S	V		100	2	X	X			_				-		
4.	SIN/2	5	$\overline{\mathbf{x}}$		1115	0	V	V				_					
5.	Sh 12	Š	Ŷ		1125	2	V		_						1		
6.	5.00	5	$\neg \uparrow$		1156	2	X	V							1		
7.			\neg	V				7				_					
8.									_								
9.																	
10.																	
	SAMPLE CUSTODY MUST BE DOO	UMENTED	BELOW	EACH TI	ME SAMP	LES CI	HANGE	POSS	ESSIO	N INCLU	JDING	COUR	IER DE	L	IY		178 245
RELINQUISHED BY 1. RELINQUISHED BY 2. RELINQUISHED BY	AMPLER: DATE/TIME: 1515 RECEIVED BY: 1. SAMPLER: DATE/TIME: RECEIVED BY: 1. SAMPLER: DATE/TIME: RECEIVED BY: 1. SAMPLER: DATE/TIME: RECEIVED BY: SAMPLER: DATE/TIME: RECEIVED BY:	be	/	Condit	ions of bottles	or cooler	s at receip	ot: 0 CC	OMPLIANT		I COMPLIAI		COOLER T	EMP	1.3		°C
3.	3.			Page	of		CLIENT CHEMTE	: 🗆 H ECH:	Hand De	elivered ed Up	Otl	d Samp	ed [=X	_	Shipmer	nt Complete
Copyright © 2023 P4960	WHITE - CHEMT	ECH COPY FOR	R RETURN T	O CLIENT	41 of 4	4 CHEN	ITECH CO	PY	PINK -	SAMPLER	COPY						



Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488



LOGIN REPORT/SAMPLE TRANSFER

7.3

	Order ID :	P4960	CLOU03		C	Order Date :	11/22/2024 10:42:00 AM		Project Mgr :	Kiran		
	Client Name :	CHA Companie	es, Inc.		Pro	oject Name :	OMH Tank Pull-011 - 0786	ŕ	Report Type :	Level 1		
(Client Contact :	Scott Smith			Receive	DateTime :	11/22/2024 10:05:00 AM		EDD Type :	EXCEL NOCLEAN	JUP	
	Invoice Name :	CHA Companie	es, Inc.		Purch	hase Order :		Har	d Copy Date :			
In	voice Contact :	Scott Smith							Date Signoff :	11/22/2024 11:13:2	5 AM	
LAB ID	CLIEN	TID		MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
P4960-0	01	B1		Solid	11/21/2024	11:05						
							VOCMS Group1		8260D	10 Bus. Days		
P4960-0	2	B2		Solid	11/21/2024	12:10						
							VOCMS Group1		8260D	10 Bus. Days		
P4960-0	3	SW1		Solid	11/21/2024	11:00						
							VOCMS Group1		8260D	10 Bus. Days		
P4960-04	4	SW2		Solid	11/21/2024	11:15						
							VOCMS Group1		8260D	10 Bus. Days		
P4960-0	5	SW3		Solid	11/21/2024	11:35						
							VOCMS Group1		8260D	10 Bus. Days		
P4960-06	6	SW4		Solid	11/21/2024	11:55						
							VOCMS Group1		8260D	10 Bus. Days		



LOGIN REPORT/SAMPLE TRANSFER

LAB ID	CLIEN	T ID		MATRIX SAN DA	APLE ATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
In	voice Contact :	Scott Smith	-	California - Property					Date Signoff : 1	1/22/2024 11:13:25 AM	
	Invoice Name :	CHA Company	uies, Inc.		Purch	ase Order :]	Hard Copy Date :		
0	Client Contact :	Scott Smith		:	Receive	DateTime :	11/22/2024 10:05:00 AM		EDD Type: E	EXCEL NOCLEANUP	
	Client Name :	CHA Compar	uies, Inc.		Pro	ject Name :	OMH Tank Pull-011 - 078	86'	Report Type : 1	Level 1	- 1
	Order ID :	P4960	CLOU03		(Order Date :	11/22/2024 10:42:00 AM		Project Mgr : k	Ciran	

Relinguished By : Date / Time : _11 22 24 130

Received By : Date / Time :

(1:30 Mgt

Storage Area: VOA Refridgerator Room