



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

## Certificate of Analysis

*Final Report*

Laboratory Order ID 24H1244

Client Name: APEX Companies, LLC. - Richmond VA  
203 Wylderose Court  
Midlothian, VA 23113

Date Received: August 22, 2024 8:40

Date Issued: August 23, 2024 17:13

Project Number: [none]

Submitted To: [REDACTED]

Purchase Order:

Client Site I.D.: Rapidan Emergency Response

Enclosed are the results of analyses for samples received by the laboratory on 08/22/2024 08:40. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

[REDACTED]

[REDACTED]

Laboratory Manager

### End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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VELAP ID 460021

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# Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	████████████████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

### ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 24H1244

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
082124TBD-01 Trip Blank	24H1244-01	Non-Potable Water	06/10/2024 09:55	08/22/2024 08:40
082124TBD-02 Wet Well	24H1244-02	Non-Potable Water	08/21/2024 19:30	08/22/2024 08:40
082124TBD-03 WTP IN	24H1244-03	Non-Potable Water	08/21/2024 20:05	08/22/2024 08:40
082124TBD-04 WTP OUT	24H1244-04	Non-Potable Water	08/21/2024 19:55	08/22/2024 08:40

This Certificate of Analysis is being reissued on 08/23/2024 to reflect change in reported compounds



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-01 Trip Blank Laboratory Sample ID: 24H1244-01  
 Grab Date/Time: 06/10/2024 09:55  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
1,1,1,2-Tetrachloroethane	01	SW8260D	<0.40 ug/L		0.40	1	08/22/24 12:33	08/22/24 12:33	RJB
1,1,1-Trichloroethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,1,2,2-Tetrachloroethane	01	SW8260D	<0.40 ug/L		0.40	1	08/22/24 12:33	08/22/24 12:33	RJB
1,1,2-Trichloroethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,1-Dichloroethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,1-Dichloroethylene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,1-Dichloropropene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,2,3-Trichlorobenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,2,3-Trichloropropane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,2,4-Trichlorobenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,2,4-Trimethylbenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,2-Dibromo-3-chloropropane (DBCP)	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,2-Dibromoethane (EDB)	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,2-Dichlorobenzene	01	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:33	08/22/24 12:33	RJB
1,2-Dichloroethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,2-Dichloropropane	01	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:33	08/22/24 12:33	RJB
1,3,5-Trimethylbenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,3-Dichlorobenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,3-Dichloropropane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
1,4-Dichlorobenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
2,2-Dichloropropane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
2-Butanone (MEK)	01	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:33	08/22/24 12:33	RJB
2-Chlorotoluene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
2-Hexanone (MBK)	01	SW8260D	<5.00 ug/L		5.00	1	08/22/24 12:33	08/22/24 12:33	RJB
4-Chlorotoluene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-01 Trip Blank Laboratory Sample ID: 24H1244-01  
 Grab Date/Time: 06/10/2024 09:55  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
4-Isopropyltoluene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
4-Methyl-2-pentanone (MIBK)	01	SW8260D	<5.00 ug/L		5.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Acetone	01	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:33	08/22/24 12:33	RJB
Benzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Bromobenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Bromochloromethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Bromodichloromethane	01	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:33	08/22/24 12:33	RJB
Bromoform	01	SW8260D	<1.00 ug/L	C	1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Bromomethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Carbon disulfide	01	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:33	08/22/24 12:33	RJB
Carbon tetrachloride	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Chlorobenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Chloroethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Chloroform	01	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:33	08/22/24 12:33	RJB
Chloromethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
cis-1,2-Dichloroethylene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
cis-1,3-Dichloropropene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Dibromochloromethane	01	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:33	08/22/24 12:33	RJB
Dibromomethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Dichlorodifluoromethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Di-isopropyl ether (DIPE)	01	SW8260D	<5.00 ug/L		5.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Ethylbenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Hexachlorobutadiene	01	SW8260D	<0.80 ug/L		0.80	1	08/22/24 12:33	08/22/24 12:33	RJB
Iodomethane	01	SW8260D	<10.0 ug/L	C	10.0	1	08/22/24 12:33	08/22/24 12:33	RJB
Isopropylbenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
m+p-Xylenes	01	SW8260D	<2.00 ug/L		2.00	1	08/22/24 12:33	08/22/24 12:33	RJB



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-01 Trip Blank Laboratory Sample ID: 24H1244-01  
 Grab Date/Time: 06/10/2024 09:55  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
Methylene chloride	01	SW8260D	<4.00 ug/L		4.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Methyl-t-butyl ether (MTBE)	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Naphthalene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
n-Butylbenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
n-Propylbenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
o-Xylene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
sec-Butylbenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Styrene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
tert-Butylbenzene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Tetrachloroethylene (PCE)	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Toluene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
trans-1,2-Dichloroethylene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
trans-1,3-Dichloropropene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Trichloroethylene	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Trichlorofluoromethane	01	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Vinyl acetate	01	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:33	08/22/24 12:33	RJB
Vinyl chloride	01	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:33	08/22/24 12:33	RJB
Xylenes, Total	01	SW8260D	<3.00 ug/L		3.00	1	08/22/24 12:33	08/22/24 12:33	RJB
Tetrahydrofuran	01	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:33	08/22/24 12:33	RJB
Surr: 1,2 Dichloroethane d4 (Surr)	01	SW8260D	102 %		70-120		08/22/24 12:33	08/22/24 12:33	RJB
Surr: 4-Bromofluorobenzene (Surr)	01	SW8260D	107 %		75-120		08/22/24 12:33	08/22/24 12:33	RJB
Surr: Dibromofluoromethane (Surr)	01	SW8260D	102 %		70-130		08/22/24 12:33	08/22/24 12:33	RJB
Surr: Toluene-d8 (Surr)	01	SW8260D	105 %		70-130		08/22/24 12:33	08/22/24 12:33	RJB



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-02 Wet Well Laboratory Sample ID: 24H1244-02  
 Grab Date/Time: 08/21/2024 19:30  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
1,1,1,2-Tetrachloroethane	02	SW8260D	<0.40 ug/L		0.40	1	08/22/24 12:56	08/22/24 12:56	RJB
1,1,1-Trichloroethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,1,2,2-Tetrachloroethane	02	SW8260D	<0.40 ug/L		0.40	1	08/22/24 12:56	08/22/24 12:56	RJB
1,1,2-Trichloroethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,1-Dichloroethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,1-Dichloroethylene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,1-Dichloropropene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,2,3-Trichlorobenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,2,3-Trichloropropane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,2,4-Trichlorobenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,2,4-Trimethylbenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,2-Dibromo-3-chloropropane (DBCP)	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,2-Dibromoethane (EDB)	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,2-Dichlorobenzene	02	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:56	08/22/24 12:56	RJB
1,2-Dichloroethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,2-Dichloropropane	02	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:56	08/22/24 12:56	RJB
1,3,5-Trimethylbenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,3-Dichlorobenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,3-Dichloropropane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
1,4-Dichlorobenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
2,2-Dichloropropane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
2-Butanone (MEK)	02	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:56	08/22/24 12:56	RJB
2-Chlorotoluene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
2-Hexanone (MBK)	02	SW8260D	<5.00 ug/L		5.00	1	08/22/24 12:56	08/22/24 12:56	RJB
4-Chlorotoluene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-02 Wet Well Laboratory Sample ID: 24H1244-02  
 Grab Date/Time: 08/21/2024 19:30  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
4-Isopropyltoluene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
4-Methyl-2-pentanone (MIBK)	02	SW8260D	<5.00 ug/L		5.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Acetone	02	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:56	08/22/24 12:56	RJB
Benzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Bromobenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Bromochloromethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Bromodichloromethane	02	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:56	08/22/24 12:56	RJB
Bromoform	02	SW8260D	<1.00 ug/L	C	1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Bromomethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Carbon disulfide	02	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:56	08/22/24 12:56	RJB
Carbon tetrachloride	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Chlorobenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Chloroethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Chloroform	02	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:56	08/22/24 12:56	RJB
Chloromethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
cis-1,2-Dichloroethylene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
cis-1,3-Dichloropropene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Dibromochloromethane	02	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:56	08/22/24 12:56	RJB
Dibromomethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Dichlorodifluoromethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Di-isopropyl ether (DIPE)	02	SW8260D	<5.00 ug/L		5.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Ethylbenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Hexachlorobutadiene	02	SW8260D	<0.80 ug/L		0.80	1	08/22/24 12:56	08/22/24 12:56	RJB
Iodomethane	02	SW8260D	<10.0 ug/L	C	10.0	1	08/22/24 12:56	08/22/24 12:56	RJB
Isopropylbenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
m+p-Xylenes	02	SW8260D	<2.00 ug/L		2.00	1	08/22/24 12:56	08/22/24 12:56	RJB



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-02 Wet Well Laboratory Sample ID: 24H1244-02  
 Grab Date/Time: 08/21/2024 19:30  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
Methylene chloride	02	SW8260D	<4.00 ug/L		4.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Methyl-t-butyl ether (MTBE)	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Naphthalene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
n-Butylbenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
n-Propylbenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
o-Xylene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
sec-Butylbenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Styrene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
tert-Butylbenzene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Tetrachloroethylene (PCE)	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Toluene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
trans-1,2-Dichloroethylene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
trans-1,3-Dichloropropene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Trichloroethylene	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Trichlorofluoromethane	02	SW8260D	<1.00 ug/L		1.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Vinyl acetate	02	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:56	08/22/24 12:56	RJB
Vinyl chloride	02	SW8260D	<0.50 ug/L		0.50	1	08/22/24 12:56	08/22/24 12:56	RJB
Xylenes, Total	02	SW8260D	<3.00 ug/L		3.00	1	08/22/24 12:56	08/22/24 12:56	RJB
Tetrahydrofuran	02	SW8260D	<10.0 ug/L		10.0	1	08/22/24 12:56	08/22/24 12:56	RJB
Surr: 1,2 Dichloroethane d4 (Surr)	02	SW8260D	102 %		70-120		08/22/24 12:56	08/22/24 12:56	RJB
Surr: 4-Bromofluorobenzene (Surr)	02	SW8260D	105 %		75-120		08/22/24 12:56	08/22/24 12:56	RJB
Surr: Dibromofluoromethane (Surr)	02	SW8260D	102 %		70-130		08/22/24 12:56	08/22/24 12:56	RJB
Surr: Toluene-d8 (Surr)	02	SW8260D	105 %		70-130		08/22/24 12:56	08/22/24 12:56	RJB





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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-02 Wet Well Laboratory Sample ID: 24H1244-02  
 Grab Date/Time: 08/21/2024 19:30  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
1,2,4,5-Tetrachlorobenzene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
1,2,4-Trichlorobenzene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
1,2-Dichlorobenzene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
1,2-Diphenylhydrazine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
1,3-Dichlorobenzene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
1,3-Dinitrobenzene	02	SW8270E	<2.50 ug/L		2.50	1	08/22/24 09:00	08/22/24 18:28	BMS
1,4-Dichlorobenzene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
1-Naphthylamine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2,3,4,6-Tetrachlorophenol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2,4,5-Trichlorophenol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2,4,6-Trichlorophenol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2,4-Dichlorophenol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2,4-Dimethylphenol	02	SW8270E	<5.00 ug/L		5.00	1	08/22/24 09:00	08/22/24 18:28	BMS
2,4-Dinitrophenol	02	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2,4-Dinitrotoluene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2,6-Dichlorophenol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2,6-Dinitrotoluene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2-Chloronaphthalene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2-Chlorophenol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2-Methylnaphthalene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2-Naphthylamine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2-Nitroaniline	02	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2-Nitrophenol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
3,3'-Dichlorobenzidine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
3-Methylcholanthrene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
3-Nitroaniline	02	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 18:28	BMS



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-02 Wet Well Laboratory Sample ID: 24H1244-02  
 Grab Date/Time: 08/21/2024 19:30  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
4,6-Dinitro-2-methylphenol	02	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 18:28	BMS
4-Aminobiphenyl	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
4-Bromophenyl phenyl ether	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
4-Chloroaniline	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
4-Chlorophenyl phenyl ether	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
4-Nitroaniline	02	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 18:28	BMS
4-Nitrophenol	02	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 18:28	BMS
7,12-Dimethylbenz (a) anthracene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Acenaphthene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Acenaphthylene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Acetophenone	02	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Aniline	02	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Anthracene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Benzidine	02	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Benzo (a) anthracene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Benzo (a) pyrene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Benzo (b) fluoranthene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Benzo (g,h,i) perylene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Benzo (k) fluoranthene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Benzoic acid	02	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Benzyl alcohol	02	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 18:28	BMS
bis (2-Chloroethoxy) methane	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
bis (2-Chloroethyl) ether	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
2,2'-Oxybis (1-chloropropane)	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
bis (2-Ethylhexyl) phthalate	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-02 Wet Well Laboratory Sample ID: 24H1244-02  
 Grab Date/Time: 08/21/2024 19:30  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
Butyl benzyl phthalate	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Chrysene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Dibenz (a,h) anthracene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Dibenz (a,j) acridine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Dibenzofuran	02	SW8270E	<5.00 ug/L		5.00	1	08/22/24 09:00	08/22/24 18:28	BMS
Diethyl phthalate	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Dimethyl phthalate	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Di-n-butyl phthalate	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Di-n-octyl phthalate	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Diphenylamine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Ethyl methanesulfonate	02	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Fluoranthene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Fluorene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Hexachlorobenzene	02	SW8270E	<1.00 ug/L		1.00	1	08/22/24 09:00	08/22/24 18:28	BMS
Hexachlorobutadiene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Hexachlorocyclopentadiene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Hexachloroethane	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Indeno (1,2,3-cd) pyrene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Isophorone	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
m+p-Cresols	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Methyl methanesulfonate	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Naphthalene	02	SW8270E	<5.00 ug/L		5.00	1	08/22/24 09:00	08/22/24 18:28	BMS
Nitrobenzene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
n-Nitrosodimethylamine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
n-Nitrosodi-n-butylamine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
n-Nitrosodi-n-propylamine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-02 Wet Well Laboratory Sample ID: 24H1244-02  
 Grab Date/Time: 08/21/2024 19:30  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
n-Nitrosodiphenylamine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
n-Nitrosopiperidine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
o+m+p-Cresols	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
o-Cresol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
p-(Dimethylamino) azobenzene	02	SW8270E	<2.50 ug/L	C	2.50	1	08/22/24 09:00	08/22/24 18:28	BMS
p-Chloro-m-cresol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Pentachloronitrobenzene (quintozene)	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Pentachlorophenol	02	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Phenacetin	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Phenanthrene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Phenol	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Pronamide	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Pyrene	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Pyridine	02	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 18:28	BMS
Surr: 2,4,6-Tribromophenol (Surr)	02	SW8270E	61.3 %		5-136		08/22/24 09:00	08/22/24 18:28	BMS
Surr: 2-Fluorobiphenyl (Surr)	02	SW8270E	53.9 %		9-117		08/22/24 09:00	08/22/24 18:28	BMS
Surr: 2-Fluorophenol (Surr)	02	SW8270E	37.1 %		5-60		08/22/24 09:00	08/22/24 18:28	BMS
Surr: Nitrobenzene-d5 (Surr)	02	SW8270E	69.4 %		5-151		08/22/24 09:00	08/22/24 18:28	BMS
Surr: Phenol-d5 (Surr)	02	SW8270E	24.5 %		5-60		08/22/24 09:00	08/22/24 18:28	BMS
Surr: p-Terphenyl-d14 (Surr)	02	SW8270E	46.8 %		5-141		08/22/24 09:00	08/22/24 18:28	BMS



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-03 WTP IN Laboratory Sample ID: 24H1244-03  
 Grab Date/Time: 08/21/2024 20:05  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
1,1,1,2-Tetrachloroethane	03	SW8260D	<0.40 ug/L		0.40	1	08/22/24 13:20	08/22/24 13:20	RJB
1,1,1-Trichloroethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,1,2,2-Tetrachloroethane	03	SW8260D	<0.40 ug/L		0.40	1	08/22/24 13:20	08/22/24 13:20	RJB
1,1,2-Trichloroethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,1-Dichloroethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,1-Dichloroethylene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,1-Dichloropropene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,2,3-Trichlorobenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,2,3-Trichloropropane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,2,4-Trichlorobenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,2,4-Trimethylbenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,2-Dibromo-3-chloropropane (DBCP)	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,2-Dibromoethane (EDB)	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,2-Dichlorobenzene	03	SW8260D	<0.50 ug/L		0.50	1	08/22/24 13:20	08/22/24 13:20	RJB
1,2-Dichloroethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,2-Dichloropropane	03	SW8260D	<0.50 ug/L		0.50	1	08/22/24 13:20	08/22/24 13:20	RJB
1,3,5-Trimethylbenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,3-Dichlorobenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,3-Dichloropropane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
1,4-Dichlorobenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
2,2-Dichloropropane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
2-Butanone (MEK)	03	SW8260D	<10.0 ug/L		10.0	1	08/22/24 13:20	08/22/24 13:20	RJB
2-Chlorotoluene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
2-Hexanone (MBK)	03	SW8260D	<5.00 ug/L		5.00	1	08/22/24 13:20	08/22/24 13:20	RJB
4-Chlorotoluene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-03 WTP IN Laboratory Sample ID: 24H1244-03  
 Grab Date/Time: 08/21/2024 20:05  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
4-Isopropyltoluene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
4-Methyl-2-pentanone (MIBK)	03	SW8260D	<5.00 ug/L		5.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Acetone	03	SW8260D	<10.0 ug/L		10.0	1	08/22/24 13:20	08/22/24 13:20	RJB
Benzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Bromobenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Bromochloromethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Bromodichloromethane	03	SW8260D	<0.50 ug/L		0.50	1	08/22/24 13:20	08/22/24 13:20	RJB
Bromoform	03	SW8260D	<1.00 ug/L	C	1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Bromomethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Carbon disulfide	03	SW8260D	<10.0 ug/L		10.0	1	08/22/24 13:20	08/22/24 13:20	RJB
Carbon tetrachloride	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Chlorobenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Chloroethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Chloroform	03	SW8260D	<0.50 ug/L		0.50	1	08/22/24 13:20	08/22/24 13:20	RJB
Chloromethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
cis-1,2-Dichloroethylene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
cis-1,3-Dichloropropene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Dibromochloromethane	03	SW8260D	<0.50 ug/L		0.50	1	08/22/24 13:20	08/22/24 13:20	RJB
Dibromomethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Dichlorodifluoromethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Di-isopropyl ether (DIPE)	03	SW8260D	<5.00 ug/L		5.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Ethylbenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Hexachlorobutadiene	03	SW8260D	<0.80 ug/L		0.80	1	08/22/24 13:20	08/22/24 13:20	RJB
Iodomethane	03	SW8260D	<10.0 ug/L	C	10.0	1	08/22/24 13:20	08/22/24 13:20	RJB
Isopropylbenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
m+p-Xylenes	03	SW8260D	<2.00 ug/L		2.00	1	08/22/24 13:20	08/22/24 13:20	RJB



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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	██████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

Laboratory Order ID: 24H1244

**Analytical Results**

Sample I.D. 082124TBD-03 WTP IN	Laboratory Sample ID: 24H1244-03
Grab Date/Time: 08/21/2024 20:05	
Field Residual Cl:	Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
Methylene chloride	03	SW8260D	<4.00 ug/L		4.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Methyl-t-butyl ether (MTBE)	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Naphthalene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
n-Butylbenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
n-Propylbenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
o-Xylene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
sec-Butylbenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Styrene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
tert-Butylbenzene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Tetrachloroethylene (PCE)	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Toluene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
trans-1,2-Dichloroethylene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
trans-1,3-Dichloropropene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Trichloroethylene	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Trichlorofluoromethane	03	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Vinyl acetate	03	SW8260D	<10.0 ug/L		10.0	1	08/22/24 13:20	08/22/24 13:20	RJB
Vinyl chloride	03	SW8260D	<0.50 ug/L		0.50	1	08/22/24 13:20	08/22/24 13:20	RJB
Xylenes, Total	03	SW8260D	<3.00 ug/L		3.00	1	08/22/24 13:20	08/22/24 13:20	RJB
Tetrahydrofuran	03	SW8260D	<10.0 ug/L		10.0	1	08/22/24 13:20	08/22/24 13:20	RJB
Surr: 1,2 Dichloroethane d4 (Surr)	03	SW8260D	101 %		70-120		08/22/24 13:20	08/22/24 13:20	RJB
Surr: 4-Bromofluorobenzene (Surr)	03	SW8260D	105 %		75-120		08/22/24 13:20	08/22/24 13:20	RJB
Surr: Dibromofluoromethane (Surr)	03	SW8260D	103 %		70-130		08/22/24 13:20	08/22/24 13:20	RJB
Surr: Toluene-d8 (Surr)	03	SW8260D	104 %		70-130		08/22/24 13:20	08/22/24 13:20	RJB



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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	██████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

**Laboratory Order ID: 24H1244**

**Analytical Results**

Sample I.D. 082124TBD-03 WTP IN	Laboratory Sample ID: 24H1244-03
Grab Date/Time: 08/21/2024 20:05	
Field Residual Cl:	Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
1,2,4,5-Tetrachlorobenzene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
1,2,4-Trichlorobenzene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
1,2-Dichlorobenzene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
1,2-Diphenylhydrazine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
1,3-Dichlorobenzene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
1,3-Dinitrobenzene	03	SW8270E	<2.50 ug/L		2.50	1	08/22/24 09:00	08/22/24 19:01	BMS
1,4-Dichlorobenzene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
1-Naphthylamine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2,3,4,6-Tetrachlorophenol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2,4,5-Trichlorophenol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2,4,6-Trichlorophenol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2,4-Dichlorophenol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2,4-Dimethylphenol	03	SW8270E	<5.00 ug/L		5.00	1	08/22/24 09:00	08/22/24 19:01	BMS
2,4-Dinitrophenol	03	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2,4-Dinitrotoluene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2,6-Dichlorophenol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2,6-Dinitrotoluene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2-Chloronaphthalene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2-Chlorophenol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2-Methylnaphthalene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2-Naphthylamine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2-Nitroaniline	03	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2-Nitrophenol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
3,3'-Dichlorobenzidine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
3-Methylcholanthrene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
3-Nitroaniline	03	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:01	BMS





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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	██████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

**Laboratory Order ID: 24H1244**

**Analytical Results**

Sample I.D. 082124TBD-03 WTP IN	Laboratory Sample ID: 24H1244-03
Grab Date/Time: 08/21/2024 20:05	
Field Residual CI:	Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
4,6-Dinitro-2-methylphenol	03	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:01	BMS
4-Aminobiphenyl	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
4-Bromophenyl phenyl ether	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
4-Chloroaniline	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
4-Chlorophenyl phenyl ether	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
4-Nitroaniline	03	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:01	BMS
4-Nitrophenol	03	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:01	BMS
7,12-Dimethylbenz (a) anthracene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Acenaphthene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Acenaphthylene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Acetophenone	03	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Aniline	03	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Anthracene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Benzidine	03	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Benzo (a) anthracene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Benzo (a) pyrene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Benzo (b) fluoranthene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Benzo (g,h,i) perylene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Benzo (k) fluoranthene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Benzoic acid	03	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Benzyl alcohol	03	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:01	BMS
bis (2-Chloroethoxy) methane	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
bis (2-Chloroethyl) ether	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
2,2'-Oxybis (1-chloropropane)	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
bis (2-Ethylhexyl) phthalate	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS



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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	██████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

**Laboratory Order ID: 24H1244**

**Analytical Results**

Sample I.D. 082124TBD-03 WTP IN	Laboratory Sample ID: 24H1244-03
Grab Date/Time: 08/21/2024 20:05	
Field Residual Cl:	Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
Butyl benzyl phthalate	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Chrysene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Dibenz (a,h) anthracene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Dibenz (a,j) acridine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Dibenzofuran	03	SW8270E	<5.00 ug/L		5.00	1	08/22/24 09:00	08/22/24 19:01	BMS
Diethyl phthalate	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Dimethyl phthalate	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Di-n-butyl phthalate	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Di-n-octyl phthalate	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Diphenylamine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Ethyl methanesulfonate	03	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Fluoranthene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Fluorene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Hexachlorobenzene	03	SW8270E	<1.00 ug/L		1.00	1	08/22/24 09:00	08/22/24 19:01	BMS
Hexachlorobutadiene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Hexachlorocyclopentadiene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Hexachloroethane	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Indeno (1,2,3-cd) pyrene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Isophorone	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
m+p-Cresols	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Methyl methanesulfonate	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Naphthalene	03	SW8270E	<5.00 ug/L		5.00	1	08/22/24 09:00	08/22/24 19:01	BMS
Nitrobenzene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
n-Nitrosodimethylamine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
n-Nitrosodi-n-butylamine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
n-Nitrosodi-n-propylamine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS



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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	██████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

**Laboratory Order ID: 24H1244**

**Analytical Results**

Sample I.D. 082124TBD-03 WTP IN	Laboratory Sample ID: 24H1244-03
Grab Date/Time: 08/21/2024 20:05	
Field Residual Cl:	Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
n-Nitrosodiphenylamine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
n-Nitrosopiperidine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
o+m+p-Cresols	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
o-Cresol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
p-(Dimethylamino) azobenzene	03	SW8270E	<2.50 ug/L	C	2.50	1	08/22/24 09:00	08/22/24 19:01	BMS
p-Chloro-m-cresol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Pentachloronitrobenzene (quintozene)	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Pentachlorophenol	03	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Phenacetin	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Phenanthrene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Phenol	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Pronamide	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Pyrene	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Pyridine	03	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:01	BMS
Surr: 2,4,6-Tribromophenol (Surr)	03	SW8270E	60.1 %		5-136		08/22/24 09:00	08/22/24 19:01	BMS
Surr: 2-Fluorobiphenyl (Surr)	03	SW8270E	56.5 %		9-117		08/22/24 09:00	08/22/24 19:01	BMS
Surr: 2-Fluorophenol (Surr)	03	SW8270E	37.4 %		5-60		08/22/24 09:00	08/22/24 19:01	BMS
Surr: Nitrobenzene-d5 (Surr)	03	SW8270E	73.5 %		5-151		08/22/24 09:00	08/22/24 19:01	BMS
Surr: Phenol-d5 (Surr)	03	SW8270E	23.7 %		5-60		08/22/24 09:00	08/22/24 19:01	BMS
Surr: p-Terphenyl-d14 (Surr)	03	SW8270E	54.1 %		5-141		08/22/24 09:00	08/22/24 19:01	BMS



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-04 WTP OUT Laboratory Sample ID: 24H1244-04  
 Grab Date/Time: 08/21/2024 19:55  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>				<b>Sample Qualifier:</b>		<b>Cl</b>			
1,1,1,2-Tetrachloroethane	04	SW8260D	<0.40 ug/L	0.40	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,1,1-Trichloroethane	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,1,2,2-Tetrachloroethane	04	SW8260D	<0.40 ug/L	0.40	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,1,2-Trichloroethane	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,1-Dichloroethane	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,1-Dichloroethylene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,1-Dichloropropene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,2,3-Trichlorobenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,2,3-Trichloropropane	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,2,4-Trichlorobenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,2,4-Trimethylbenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,2-Dibromo-3-chloropropane (DBCP)	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,2-Dibromoethane (EDB)	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,2-Dichlorobenzene	04	SW8260D	<0.50 ug/L	0.50	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,2-Dichloroethane	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,2-Dichloropropane	04	SW8260D	<0.50 ug/L	0.50	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,3,5-Trimethylbenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,3-Dichlorobenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,3-Dichloropropane	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
1,4-Dichlorobenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
2,2-Dichloropropane	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
2-Butanone (MEK)	04	SW8260D	<10.0 ug/L	10.0	1	08/22/24 13:43	08/22/24 13:43	RJB	
2-Chlorotoluene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
2-Hexanone (MBK)	04	SW8260D	<5.00 ug/L	5.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
4-Chlorotoluene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-04 WTP OUT Laboratory Sample ID: 24H1244-04  
 Grab Date/Time: 08/21/2024 19:55  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>									
4-Isopropyltoluene	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
4-Methyl-2-pentanone (MIBK)	04	SW8260D	<5.00 ug/L		5.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Acetone	04	SW8260D	<10.0 ug/L		10.0	1	08/22/24 13:43	08/22/24 13:43	RJB
Benzene	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Bromobenzene	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Bromochloromethane	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
<b>Bromodichloromethane</b>	04	SW8260D	<b>5.51 ug/L</b>		0.50	1	08/22/24 13:43	08/22/24 13:43	RJB
Bromoform	04	SW8260D	<1.00 ug/L	C	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Bromomethane	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Carbon disulfide	04	SW8260D	<10.0 ug/L		10.0	1	08/22/24 13:43	08/22/24 13:43	RJB
Carbon tetrachloride	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Chlorobenzene	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Chloroethane	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
<b>Chloroform</b>	04	SW8260D	<b>49.2 ug/L</b>		0.50	1	08/22/24 13:43	08/22/24 13:43	RJB
Chloromethane	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
cis-1,2-Dichloroethylene	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
cis-1,3-Dichloropropene	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Dibromochloromethane	04	SW8260D	<0.50 ug/L		0.50	1	08/22/24 13:43	08/22/24 13:43	RJB
Dibromomethane	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Dichlorodifluoromethane	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Di-isopropyl ether (DIPE)	04	SW8260D	<5.00 ug/L		5.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Ethylbenzene	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
Hexachlorobutadiene	04	SW8260D	<0.80 ug/L		0.80	1	08/22/24 13:43	08/22/24 13:43	RJB
Iodomethane	04	SW8260D	<10.0 ug/L	C	10.0	1	08/22/24 13:43	08/22/24 13:43	RJB
Isopropylbenzene	04	SW8260D	<1.00 ug/L		1.00	1	08/22/24 13:43	08/22/24 13:43	RJB
m+p-Xylenes	04	SW8260D	<2.00 ug/L		2.00	1	08/22/24 13:43	08/22/24 13:43	RJB



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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	██████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

Laboratory Order ID: 24H1244

**Analytical Results**

Sample I.D. 082124TBD-04 WTP OUT	Laboratory Sample ID: 24H1244-04
Grab Date/Time: 08/21/2024 19:55	
Field Residual Cl:	Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Volatile Organic Compounds by GCMS</b>				<b>Sample Qualifier:</b>		<b>Cl</b>			
Methylene chloride	04	SW8260D	<4.00 ug/L	4.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
Methyl-t-butyl ether (MTBE)	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
Naphthalene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
n-Butylbenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
n-Propylbenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
o-Xylene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
sec-Butylbenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
Styrene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
tert-Butylbenzene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
Tetrachloroethylene (PCE)	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
Toluene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
trans-1,2-Dichloroethylene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
trans-1,3-Dichloropropene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
Trichloroethylene	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
Trichlorofluoromethane	04	SW8260D	<1.00 ug/L	1.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
Vinyl acetate	04	SW8260D	<10.0 ug/L	10.0	1	08/22/24 13:43	08/22/24 13:43	RJB	
Vinyl chloride	04	SW8260D	<0.50 ug/L	0.50	1	08/22/24 13:43	08/22/24 13:43	RJB	
Xylenes, Total	04	SW8260D	<3.00 ug/L	3.00	1	08/22/24 13:43	08/22/24 13:43	RJB	
Tetrahydrofuran	04	SW8260D	<10.0 ug/L	10.0	1	08/22/24 13:43	08/22/24 13:43	RJB	
Surr: 1,2 Dichloroethane d4 (Surr)	04	SW8260D	102 %	70-120		08/22/24 13:43	08/22/24 13:43	RJB	
Surr: 4-Bromofluorobenzene (Surr)	04	SW8260D	106 %	75-120		08/22/24 13:43	08/22/24 13:43	RJB	
Surr: Dibromofluoromethane (Surr)	04	SW8260D	104 %	70-130		08/22/24 13:43	08/22/24 13:43	RJB	
Surr: Toluene-d8 (Surr)	04	SW8260D	103 %	70-130		08/22/24 13:43	08/22/24 13:43	RJB	



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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	██████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

**Laboratory Order ID: 24H1244**

**Analytical Results**

Sample I.D. 082124TBD-04 WTP OUT	Laboratory Sample ID: 24H1244-04
Grab Date/Time: 08/21/2024 19:55	
Field Residual Cl:	Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
1,2,4,5-Tetrachlorobenzene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
1,2,4-Trichlorobenzene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
1,2-Dichlorobenzene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
1,2-Diphenylhydrazine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
1,3-Dichlorobenzene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
1,3-Dinitrobenzene	04	SW8270E	<2.50 ug/L		2.50	1	08/22/24 09:00	08/22/24 19:33	BMS
1,4-Dichlorobenzene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
1-Naphthylamine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2,3,4,6-Tetrachlorophenol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2,4,5-Trichlorophenol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2,4,6-Trichlorophenol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2,4-Dichlorophenol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2,4-Dimethylphenol	04	SW8270E	<5.00 ug/L		5.00	1	08/22/24 09:00	08/22/24 19:33	BMS
2,4-Dinitrophenol	04	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2,4-Dinitrotoluene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2,6-Dichlorophenol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2,6-Dinitrotoluene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2-Chloronaphthalene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2-Chlorophenol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2-Methylnaphthalene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2-Naphthylamine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2-Nitroaniline	04	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2-Nitrophenol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
3,3'-Dichlorobenzidine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
3-Methylcholanthrene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
3-Nitroaniline	04	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:33	BMS



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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	██████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

**Laboratory Order ID: 24H1244**

**Analytical Results**

Sample I.D. 082124TBD-04 WTP OUT	Laboratory Sample ID: 24H1244-04
Grab Date/Time: 08/21/2024 19:55	
Field Residual CI:	Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
4,6-Dinitro-2-methylphenol	04	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:33	BMS
4-Aminobiphenyl	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
4-Bromophenyl phenyl ether	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
4-Chloroaniline	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
4-Chlorophenyl phenyl ether	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
4-Nitroaniline	04	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:33	BMS
4-Nitrophenol	04	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:33	BMS
7,12-Dimethylbenz (a) anthracene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Acenaphthene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Acenaphthylene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Acetophenone	04	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Aniline	04	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Anthracene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Benzidine	04	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Benzo (a) anthracene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Benzo (a) pyrene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Benzo (b) fluoranthene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Benzo (g,h,i) perylene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Benzo (k) fluoranthene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Benzoic acid	04	SW8270E	<50.0 ug/L		50.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Benzyl alcohol	04	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:33	BMS
bis (2-Chloroethoxy) methane	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
<b>bis (2-Chloroethyl) ether</b>	04	SW8270E	<b>13.7 ug/L</b>		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
2,2'-Oxybis (1-chloropropane)	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
bis (2-Ethylhexyl) phthalate	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS





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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

Laboratory Order ID: 24H1244

#### Analytical Results

Sample I.D. 082124TBD-04 WTP OUT Laboratory Sample ID: 24H1244-04  
 Grab Date/Time: 08/21/2024 19:55  
 Field Residual Cl: Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
Butyl benzyl phthalate	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Chrysene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Dibenz (a,h) anthracene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Dibenz (a,j) acridine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Dibenzofuran	04	SW8270E	<5.00 ug/L		5.00	1	08/22/24 09:00	08/22/24 19:33	BMS
Diethyl phthalate	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Dimethyl phthalate	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Di-n-butyl phthalate	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Di-n-octyl phthalate	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Diphenylamine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Ethyl methanesulfonate	04	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Fluoranthene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Fluorene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Hexachlorobenzene	04	SW8270E	<1.00 ug/L		1.00	1	08/22/24 09:00	08/22/24 19:33	BMS
Hexachlorobutadiene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Hexachlorocyclopentadiene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Hexachloroethane	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Indeno (1,2,3-cd) pyrene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Isophorone	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
m+p-Cresols	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Methyl methanesulfonate	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Naphthalene	04	SW8270E	<5.00 ug/L		5.00	1	08/22/24 09:00	08/22/24 19:33	BMS
Nitrobenzene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
n-Nitrosodimethylamine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
n-Nitrosodi-n-butylamine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
n-Nitrosodi-n-propylamine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS



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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	██████████	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

**Laboratory Order ID: 24H1244**

**Analytical Results**

Sample I.D. 082124TBD-04 WTP OUT	Laboratory Sample ID: 24H1244-04
Grab Date/Time: 08/21/2024 19:55	
Field Residual Cl:	Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D F	Sample Prep Date/Time	Analysis Date/Time	Analyst
<b>Semivolatile Organic Compounds by GCMS</b>									
n-Nitrosodiphenylamine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
n-Nitrosopiperidine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
o+m+p-Cresols	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
o-Cresol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
p-(Dimethylamino) azobenzene	04	SW8270E	<2.50 ug/L	C	2.50	1	08/22/24 09:00	08/22/24 19:33	BMS
p-Chloro-m-cresol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Pentachloronitrobenzene (quintozene)	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Pentachlorophenol	04	SW8270E	<20.0 ug/L		20.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Phenacetin	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Phenanthrene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Phenol	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Pronamide	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Pyrene	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Pyridine	04	SW8270E	<10.0 ug/L		10.0	1	08/22/24 09:00	08/22/24 19:33	BMS
Surr: 2,4,6-Tribromophenol (Surr)	04	SW8270E	64.6 %		5-136		08/22/24 09:00	08/22/24 19:33	BMS
Surr: 2-Fluorobiphenyl (Surr)	04	SW8270E	59.6 %		9-117		08/22/24 09:00	08/22/24 19:33	BMS
Surr: 2-Fluorophenol (Surr)	04	SW8270E	32.0 %		5-60		08/22/24 09:00	08/22/24 19:33	BMS
Surr: Nitrobenzene-d5 (Surr)	04	SW8270E	73.4 %		5-151		08/22/24 09:00	08/22/24 19:33	BMS
Surr: Phenol-d5 (Surr)	04	SW8270E	1.97 %	S	5-60		08/22/24 09:00	08/22/24 19:33	BMS
Surr: p-Terphenyl-d14 (Surr)	04	SW8270E	62.7 %		5-141		08/22/24 09:00	08/22/24 19:33	BMS



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Submitted To: Midlothian VA, 23113  
 Client Site I.D.: Rapidan Emergency Response

### Analytical Summary

**Administrative**

**Preparation Method:**

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
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**Semivolatile Organic Compounds by GCMS**

**Preparation Method: SW3510C/EPA600-MS**

24H1244-02	1030 mL / 1.00 mL	SW8270E	BHH0894	SHH0906	AH40174
24H1244-03	1030 mL / 1.00 mL	SW8270E	BHH0894	SHH0906	AH40174
24H1244-04	1030 mL / 1.00 mL	SW8270E	BHH0894	SHH0906	AH40174

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
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**Volatile Organic Compounds by GCMS**

**Preparation Method: SW5030B-MS**

24H1244-01	5.00 mL / 5.00 mL	SW8260D	BHH0929	SHH0853	AG40309
24H1244-02	5.00 mL / 5.00 mL	SW8260D	BHH0929	SHH0853	AG40309
24H1244-03	5.00 mL / 5.00 mL	SW8260D	BHH0929	SHH0853	AG40309
24H1244-04	5.00 mL / 5.00 mL	SW8260D	BHH0929	SHH0853	AG40309



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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court  Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	[REDACTED]	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

### QC Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
<b>Semivolatile Organic Compounds by GCMS</b>			<b>Preparation Method: SW3510C/EPA600-MS</b>		
BHH0894-BLK1	1000 mL / 1.00 mL	SW8270E	BHH0894	SHH0906	AH40174
BHH0894 BS1	1000 mL / 1.00 mL	SW8270E	BHH0894	SHH0906	AH40174
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
<b>Volatile Organic Compounds by GCMS</b>			<b>Preparation Method: SW5030B-MS</b>		
BHH0929-BLK1	5.00 mL / 5.00 mL	SW8260D	BHH0929	SHH0853	AG40309
BHH0929-BS1	5.00 mL / 5.00 mL	SW8260D	BHH0929	SHH0853	AG40309
BHH0929-MRL1	5.00 mL / 5.00 mL	SW8260D	BHH0929	SHH0853	AG40309
BHH0929-MS1	5.00 mL / 5.00 mL	SW8260D	BHH0929	SHH0853	AG40309
BHH0929-MSD1	5.00 mL / 5.00 mL	SW8260D	BHH0929	SHH0853	AG40309



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

#### Blank (BHH0929-BLK1)

Prepared & Analyzed: 08/22/2024

1,1,1,2-Tetrachloroethane	<0.40 ug/L	0.40	ug/L							
1,1,1-Trichloroethane	<1.00 ug/L	1.00	ug/L							
1,1,2,2-Tetrachloroethane	<0.40 ug/L	0.40	ug/L							
1,1,2-Trichloroethane	<1.00 ug/L	1.00	ug/L							
1,1-Dichloroethane	<1.00 ug/L	1.00	ug/L							
1,1-Dichloroethylene	<1.00 ug/L	1.00	ug/L							
1,1-Dichloropropene	<1.00 ug/L	1.00	ug/L							
1,2,3-Trichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,2,3-Trichloropropane	<1.00 ug/L	1.00	ug/L							
1,2,4-Trichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,2,4-Trimethylbenzene	<1.00 ug/L	1.00	ug/L							
1,2-Dibromo-3-chloropropane (DBCP)	<1.00 ug/L	1.00	ug/L							
1,2-Dibromoethane (EDB)	<1.00 ug/L	1.00	ug/L							
1,2-Dichlorobenzene	<0.50 ug/L	0.50	ug/L							
1,2-Dichloroethane	<1.00 ug/L	1.00	ug/L							
1,2-Dichloropropane	<0.50 ug/L	0.50	ug/L							
1,3,5-Trimethylbenzene	<1.00 ug/L	1.00	ug/L							
1,3-Dichlorobenzene	<1.00 ug/L	1.00	ug/L							
1,3-Dichloropropane	<1.00 ug/L	1.00	ug/L							
1,4-Dichlorobenzene	<1.00 ug/L	1.00	ug/L							
2,2-Dichloropropane	<1.00 ug/L	1.00	ug/L							
2-Butanone (MEK)	<10.0 ug/L	10.0	ug/L							
2-Chlorotoluene	<1.00 ug/L	1.00	ug/L							
2-Hexanone (MBK)	<5.00 ug/L	5.00	ug/L							
4-Chlorotoluene	<1.00 ug/L	1.00	ug/L							
4-Isopropyltoluene	<1.00 ug/L	1.00	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.00 ug/L	5.00	ug/L							
Acetone	<10.0 ug/L	10.0	ug/L							
Benzene	<1.00 ug/L	1.00	ug/L							
Bromobenzene	<1.00 ug/L	1.00	ug/L							
Bromochloromethane	<1.00 ug/L	1.00	ug/L							



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

#### Blank (BHH0929-BLK1)

Prepared & Analyzed: 08/22/2024

Bromodichloromethane	<0.50 ug/L	0.50	ug/L							
Bromoform	<1.00 ug/L	1.00	ug/L							
Bromomethane	<1.00 ug/L	1.00	ug/L							
Carbon disulfide	<10.0 ug/L	10.0	ug/L							
Carbon tetrachloride	<1.00 ug/L	1.00	ug/L							
Chlorobenzene	<1.00 ug/L	1.00	ug/L							
Chloroethane	<1.00 ug/L	1.00	ug/L							
Chloroform	<0.50 ug/L	0.50	ug/L							
Chloromethane	<1.00 ug/L	1.00	ug/L							
cis-1,2-Dichloroethylene	<1.00 ug/L	1.00	ug/L							
cis-1,3-Dichloropropene	<1.00 ug/L	1.00	ug/L							
Dibromochloromethane	<0.50 ug/L	0.50	ug/L							
Dibromomethane	<1.00 ug/L	1.00	ug/L							
Dichlorodifluoromethane	<1.00 ug/L	1.00	ug/L							
Di-isopropyl ether (DIPE)	<5.00 ug/L	5.00	ug/L							
Ethylbenzene	<1.00 ug/L	1.00	ug/L							
Hexachlorobutadiene	<0.80 ug/L	0.80	ug/L							
Iodomethane	<10.0 ug/L	10.0	ug/L							
Isopropylbenzene	<1.00 ug/L	1.00	ug/L							
m+p-Xylenes	<2.00 ug/L	2.00	ug/L							
Methylene chloride	<4.00 ug/L	4.00	ug/L							
Methyl-t-butyl ether (MTBE)	<1.00 ug/L	1.00	ug/L							
Naphthalene	<1.00 ug/L	1.00	ug/L							
n-Butylbenzene	<1.00 ug/L	1.00	ug/L							
n-Propylbenzene	<1.00 ug/L	1.00	ug/L							
o-Xylene	<1.00 ug/L	1.00	ug/L							
sec-Butylbenzene	<1.00 ug/L	1.00	ug/L							
Styrene	<1.00 ug/L	1.00	ug/L							
tert-Butylbenzene	<1.00 ug/L	1.00	ug/L							
Tetrachloroethylene (PCE)	<1.00 ug/L	1.00	ug/L							
Toluene	<1.00 ug/L	1.00	ug/L							



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

##### Blank (BHH0929-BLK1)

Prepared & Analyzed: 08/22/2024

trans-1,2-Dichloroethylene	<1.00 ug/L	1.00	ug/L							
trans-1,3-Dichloropropene	<1.00 ug/L	1.00	ug/L							
Trichloroethylene	<1.00 ug/L	1.00	ug/L							
Trichlorofluoromethane	<1.00 ug/L	1.00	ug/L							
Vinyl acetate	<10.0 ug/L	10.0	ug/L							
Vinyl chloride	<0.50 ug/L	0.50	ug/L							
Xylenes, Total	<3.00 ug/L	3.00	ug/L							
Tetrahydrofuran	<10.0 ug/L	10.0	ug/L							
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Surr: 1,2-Dichloroethane-d4 (Surr)	50.3		ug/L	50.0		101	70-120			
Surr: 4-Bromofluorobenzene (Surr)	53.7		ug/L	50.0		107	75-120			
Surr: Dibromofluoromethane (Surr)	50.2		ug/L	50.0		100	70-130			
Surr: Toluene-d8 (Surr)	51.5		ug/L	50.0		103	70-130			

##### LCS (BHH0929-BS1)

Prepared & Analyzed: 08/22/2024

1,1,1,2-Tetrachloroethane	49.5 ug/L	0.4	ug/L	50.0 ug/L	99.1	80-130
1,1,1-Trichloroethane	47.7 ug/L	1	ug/L	50.0 ug/L	95.4	65-130
1,1,2,2-Tetrachloroethane	55.1 ug/L	0.4	ug/L	50.0 ug/L	110	65-130
1,1,2-Trichloroethane	52.0 ug/L	1	ug/L	50.0 ug/L	104	75-125
1,1-Dichloroethane	46.9 ug/L	1	ug/L	50.0 ug/L	93.9	70-135
1,1-Dichloroethylene	43.0 ug/L	1	ug/L	50.0 ug/L	86.0	70-130
1,1-Dichloropropene	47.8 ug/L	1	ug/L	50.0 ug/L	95.6	75-135
1,2,3-Trichlorobenzene	46.1 ug/L	1	ug/L	50.0 ug/L	92.2	55-140
1,2,3-Trichloropropane	54.8 ug/L	1	ug/L	50.0 ug/L	110	75-125
1,2,4-Trichlorobenzene	43.7 ug/L	1	ug/L	50.0 ug/L	87.5	65-135
1,2,4-Trimethylbenzene	46.2 ug/L	1	ug/L	50.0 ug/L	92.5	75-130
1,2-Dibromo-3-chloropropane (DBCP)	42.8 ug/L	1	ug/L	50.0 ug/L	85.5	50-130
1,2-Dibromoethane (EDB)	49.5 ug/L	1	ug/L	50.0 ug/L	99.0	80-120
1,2-Dichlorobenzene	49.4 ug/L	0.5	ug/L	50.0 ug/L	98.8	70-120
1,2-Dichloroethane	44.3 ug/L	1	ug/L	50.0 ug/L	88.6	70-130
1,2-Dichloropropane	49.2 ug/L	0.5	ug/L	50.0 ug/L	98.4	75-125
1,3,5-Trimethylbenzene	46.5 ug/L	1	ug/L	50.0 ug/L	93.1	75-125
1,3-Dichlorobenzene	48.7 ug/L	1	ug/L	50.0 ug/L	97.4	75-125



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: XXXXXXXXXX  
 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

#### LCS (BHH0929-BS1)

Prepared & Analyzed: 08/22/2024

1,3-Dichloropropane	49.2 ug/L	1	ug/L	50.0	ug/L	98.3	75-125			
1,4-Dichlorobenzene	48.8 ug/L	1	ug/L	50.0	ug/L	97.5	75-125			
2,2-Dichloropropane	47.5 ug/L	1	ug/L	50.0	ug/L	95.1	70-135			
2-Butanone (MEK)	49.6 ug/L	10	ug/L	50.0	ug/L	99.3	30-150			
2-Chlorotoluene	45.4 ug/L	1	ug/L	50.0	ug/L	90.8	75-125			
2-Hexanone (MBK)	47.9 ug/L	5	ug/L	50.0	ug/L	95.8	55-130			
4-Chlorotoluene	46.5 ug/L	1	ug/L	50.0	ug/L	92.9	75-130			
4-Isopropyltoluene	48.9 ug/L	1	ug/L	50.0	ug/L	97.8	75-130			
4-Methyl-2-pentanone (MIBK)	51.7 ug/L	5	ug/L	50.0	ug/L	103	60-135			
Acetone	46.4 ug/L	10	ug/L	50.0	ug/L	92.9	40-140			
Benzene	48.4 ug/L	1	ug/L	50.0	ug/L	96.7	80-120			
Bromobenzene	54.1 ug/L	1	ug/L	50.0	ug/L	108	75-125			
Bromochloromethane	47.6 ug/L	1	ug/L	50.0	ug/L	95.3	65-130			
Bromodichloromethane	46.6 ug/L	0.5	ug/L	50.0	ug/L	93.2	75-120			
Bromoform	56.7 ug/L	1	ug/L	50.0	ug/L	113	70-130			
Bromomethane	45.1 ug/L	1	ug/L	50.0	ug/L	90.3	30-145			
Carbon disulfide	52.0 ug/L	10	ug/L	50.0	ug/L	104	35-160			
Carbon tetrachloride	49.3 ug/L	1	ug/L	50.0	ug/L	98.6	65-140			
Chlorobenzene	48.4 ug/L	1	ug/L	50.0	ug/L	96.9	80-120			
Chloroethane	35.8 ug/L	1	ug/L	50.0	ug/L	71.7	60-135			
Chloroform	45.2 ug/L	0.5	ug/L	50.0	ug/L	90.4	65-135			
Chloromethane	45.3 ug/L	1	ug/L	50.0	ug/L	90.6	40-125			
cis-1,2-Dichloroethylene	46.4 ug/L	1	ug/L	50.0	ug/L	92.8	70-125			
cis 1,3 Dichloropropene	48.3 ug/L	1	ug/L	50.0	ug/L	96.7	70-130			
Dibromochloromethane	50.6 ug/L	0.5	ug/L	50.0	ug/L	101	60-135			
Dibromomethane	50.2 ug/L	1	ug/L	50.0	ug/L	100	75-125			
Dichlorodifluoromethane	47.7 ug/L	1	ug/L	50.0	ug/L	95.4	30-155			
Ethylbenzene	48.4 ug/L	1	ug/L	50.0	ug/L	96.8	75-125			
Hexachlorobutadiene	45.8 ug/L	0.8	ug/L	50.0	ug/L	91.6	50-140			
Isopropylbenzene	46.2 ug/L	1	ug/L	50.0	ug/L	92.4	75-125			
m+p-Xylenes	99.1 ug/L	2	ug/L	100	ug/L	99.1	75-130			





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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

##### LCS (BHH0929-BS1)

Prepared & Analyzed: 08/22/2024

Methylene chloride	45.5 ug/L	4	ug/L	50.0	ug/L	90.9	55-140			
Methyl-t-butyl ether (MTBE)	45.5 ug/L	1	ug/L	50.0	ug/L	91.1	65-125			
Naphthalene	42.6 ug/L	1	ug/L	50.0	ug/L	85.2	55-140			
n-Butylbenzene	45.6 ug/L	1	ug/L	50.0	ug/L	91.3	70-135			
n-Propylbenzene	46.1 ug/L	1	ug/L	50.0	ug/L	92.3	70-130			
o-Xylene	50.7 ug/L	1	ug/L	50.0	ug/L	101	80-120			
sec-Butylbenzene	47.8 ug/L	1	ug/L	50.0	ug/L	95.6	70-125			
Styrene	49.8 ug/L	1	ug/L	50.0	ug/L	99.7	65-135			
tert-Butylbenzene	48.0 ug/L	1	ug/L	50.0	ug/L	96.1	70-130			
Tetrachloroethylene (PCE)	49.0 ug/L	1	ug/L	50.0	ug/L	98.0	45-150			
Toluene	47.8 ug/L	1	ug/L	50.0	ug/L	95.5	75-120			
trans-1,2-Dichloroethylene	43.8 ug/L	1	ug/L	50.0	ug/L	87.5	60-140			
trans-1,3-Dichloropropene	52.0 ug/L	1	ug/L	50.0	ug/L	104	55-140			
Trichloroethylene	50.0 ug/L	1	ug/L	50.0	ug/L	99.9	70-125			
Trichlorofluoromethane	45.9 ug/L	1	ug/L	50.0	ug/L	91.8	60-145			
Vinyl chloride	47.6 ug/L	0.5	ug/L	50.0	ug/L	95.2	50-145			
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Surr: 1,2-Dichloroethane-d4 (Surr)	47.5		ug/L	50.0	ug/L	95.0	70-120			
Surr: 4-Bromofluorobenzene (Surr)	52.0		ug/L	50.0	ug/L	104	75-120			
Surr: Dibromofluoromethane (Surr)	47.5		ug/L	50.0	ug/L	95.1	70-130			
Surr: Toluene-d8 (Surr)	48.9		ug/L	50.0	ug/L	97.8	70-130			

##### Matrix Spike (BHH0929-MS1)

Source: 24H1244-02

Prepared & Analyzed: 08/22/2024

1,1,1,2-Tetrachloroethane	52.0 ug/L	0.4	ug/L	50.0	<0.4 ug/L	104	80-130			
1,1,1-Trichloroethane	47.6 ug/L	1	ug/L	50.0	<1 ug/L	95.3	65-130			
1,1,2,2-Tetrachloroethane	56.0 ug/L	0.4	ug/L	50.0	<0.4 ug/L	112	65-130			
1,1,2-Trichloroethane	51.4 ug/L	1	ug/L	50.0	<1 ug/L	103	75-125			
1,1-Dichloroethane	46.1 ug/L	1	ug/L	50.0	<1 ug/L	92.2	70-135			
1,1-Dichloroethylene	43.6 ug/L	1	ug/L	50.0	<1 ug/L	87.2	50-145			
1,1-Dichloropropene	47.8 ug/L	1	ug/L	50.0	<1 ug/L	95.5	75-135			
1,2,3-Trichlorobenzene	47.4 ug/L	1	ug/L	50.0	<1 ug/L	94.8	55-140			
1,2,3-Trichloropropane	54.8 ug/L	1	ug/L	50.0	<1 ug/L	110	75-125			
1,2,4-Trichlorobenzene	45.8 ug/L	1	ug/L	50.0	<1 ug/L	91.6	65-135			



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

Matrix Spike (BHH0929-MS1)	Source: 24H1244-02			Prepared & Analyzed: 08/22/2024						
1,2,4-Trimethylbenzene	46.7 ug/L	1	ug/L	50.0	<1 ug/L	93.4	75-130			
1,2-Dibromo-3-chloropropane (DBCP)	43.9 ug/L	1	ug/L	50.0	<1 ug/L	87.9	50-130			
1,2-Dibromoethane (EDB)	50.5 ug/L	1	ug/L	50.0	<1 ug/L	101	80-120			
1,2-Dichlorobenzene	50.7 ug/L	0.5	ug/L	50.0	<0.5 ug/L	101	70-120			
1,2-Dichloroethane	43.8 ug/L	1	ug/L	50.0	<1 ug/L	87.7	70-130			
1,2-Dichloropropane	49.3 ug/L	0.5	ug/L	50.0	<0.5 ug/L	98.6	75-125			
1,3,5-Trimethylbenzene	47.2 ug/L	1	ug/L	50.0	<1 ug/L	94.4	75-124			
1,3-Dichlorobenzene	50.1 ug/L	1	ug/L	50.0	<1 ug/L	100	75-125			
1,3-Dichloropropane	49.5 ug/L	1	ug/L	50.0	<1 ug/L	99.0	75-125			
1,4-Dichlorobenzene	49.3 ug/L	1	ug/L	50.0	<1 ug/L	98.6	75-125			
2,2-Dichloropropane	47.4 ug/L	1	ug/L	50.0	<1 ug/L	94.8	70-135			
2-Butanone (MEK)	47.7 ug/L	10	ug/L	50.0	<10 ug/L	95.3	30-150			
2-Chlorotoluene	46.3 ug/L	1	ug/L	50.0	<1 ug/L	92.6	75-125			
2-Hexanone (MBK)	46.5 ug/L	5	ug/L	50.0	<5 ug/L	93.0	55-130			
4-Chlorotoluene	47.0 ug/L	1	ug/L	50.0	<1 ug/L	94.0	75-130			
4 Isopropyltoluene	50.2 ug/L	1	ug/L	50.0	1 ug/L	100	75 130			
4-Methyl-2-pentanone (MIBK)	49.9 ug/L	5	ug/L	50.0	<5 ug/L	99.8	60-135			
Acetone	41.8 ug/L	10	ug/L	50.0	10 ug/L	83.7	40 140			
Benzene	48.9 ug/L	1	ug/L	50.0	<1 ug/L	97.7	80-120			
Bromobenzene	55.4 ug/L	1	ug/L	50.0	1 ug/L	111	75 125			
Bromochloromethane	47.9 ug/L	1	ug/L	50.0	<1 ug/L	95.8	65-130			
Bromodichloromethane	47.6 ug/L	0.5	ug/L	50.0	0.5 ug/L	95.3	75 136			
Bromoform	59.5 ug/L	1	ug/L	50.0	<1 ug/L	119	70-130			
Bromomethane	44.3 ug/L	1	ug/L	50.0	<1 ug/L	88.6	30-145			
Carbon disulfide	50.8 ug/L	10	ug/L	50.0	<10 ug/L	102	35-160			
Carbon tetrachloride	50.8 ug/L	1	ug/L	50.0	<1 ug/L	102	65-140			
Chlorobenzene	50.2 ug/L	1	ug/L	50.0	<1 ug/L	100	80-120			
Chloroethane	33.9 ug/L	1	ug/L	50.0	<1 ug/L	67.8	60-135			
Chloroform	44.3 ug/L	0.5	ug/L	50.0	<0.5 ug/L	88.7	65-135			
Chloromethane	45.8 ug/L	1	ug/L	50.0	<1 ug/L	91.6	40-125			
cis-1,2-Dichloroethylene	46.2 ug/L	1	ug/L	50.0	<1 ug/L	92.5	70-125			



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

##### Matrix Spike (BHH0929-MS1)

Source: 24H1244-02

Prepared & Analyzed: 08/22/2024

cis-1,3-Dichloropropene	48.2 ug/L	1	ug/L	50.0	<1 ug/L	96.3	47-136			
Dibromochloromethane	52.1 ug/L	0.5	ug/L	50.0	<0.5 ug/L	104	60-135			
Dibromomethane	50.6 ug/L	1	ug/L	50.0	<1 ug/L	101	75-125			
Dichlorodifluoromethane	55.7 ug/L	1	ug/L	50.0	<1 ug/L	111	30-155			
Ethylbenzene	50.0 ug/L	1	ug/L	50.0	<1 ug/L	99.9	75-125			
Hexachlorobutadiene	47.1 ug/L	0.8	ug/L	50.0	<0.8 ug/L	94.2	50-140			
Isopropylbenzene	47.1 ug/L	1	ug/L	50.0	<1 ug/L	94.2	75-125			
m+p-Xylenes	100 ug/L	2	ug/L	100	<2 ug/L	100	75-130			
Methylene chloride	44.1 ug/L	4	ug/L	50.0	<4 ug/L	88.2	55-140			
Methyl-t-butyl ether (MTBE)	44.6 ug/L	1	ug/L	50.0	<1 ug/L	89.3	65-125			
Naphthalene	43.1 ug/L	1	ug/L	50.0	<1 ug/L	85.9	55-140			
n-Butylbenzene	46.4 ug/L	1	ug/L	50.0	<1 ug/L	92.8	70-135			
n-Propylbenzene	47.6 ug/L	1	ug/L	50.0	<1 ug/L	95.2	70-130			
o-Xylene	52.4 ug/L	1	ug/L	50.0	<1 ug/L	105	80-120			
sec-Butylbenzene	48.4 ug/L	1	ug/L	50.0	<1 ug/L	96.7	70-125			
Styrene	51.7 ug/L	1	ug/L	50.0	1 ug/L	103	65 135			
tert-Butylbenzene	48.4 ug/L	1	ug/L	50.0	<1 ug/L	96.8	70-130			
Tetrachloroethylene (PCE)	50.8 ug/L	1	ug/L	50.0	1 ug/L	102	51 231			
Toluene	48.5 ug/L	1	ug/L	50.0	<1 ug/L	97.0	75-120			
trans 1,2 Dichloroethylene	43.6 ug/L	1	ug/L	50.0	1 ug/L	87.2	60 140			
trans-1,3-Dichloropropene	52.3 ug/L	1	ug/L	50.0	<1 ug/L	105	55-140			
Trichloroethylene	51.0 ug/L	1	ug/L	50.0	1 ug/L	102	70 125			
Trichlorofluoromethane	46.6 ug/L	1	ug/L	50.0	<1 ug/L	93.2	60-145			
Vinyl chloride	47.9 ug/L	0.5	ug/L	50.0	0.5 ug/L	95.9	50 145			
Surr: 1,2-Dichloroethane-d4 (Surr)	45.1		ug/L	50.0	ug/L	90.2	70-120			
Surr: 4 Bromofluorobenzene (Surr)	51.8		ug/L	50.0	ug/L	104	75 120			
Surr: Dibromofluoromethane (Surr)	47.3		ug/L	50.0	ug/L	94.7	70-130			
Surr: Toluene-d8 (Surr)	48.3		ug/L	50.0	ug/L	96.6	70 130			



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

#### Matrix Spike Dup (BHH0929-MSD1)

Source: 24H1244-02

Prepared & Analyzed: 08/22/2024

1,1,1,2-Tetrachloroethane	51.6 ug/L	0.4	ug/L	50.0	<0.4 ug/L	103	80-130	0.849	30	
1,1,1-Trichloroethane	47.4 ug/L	1	ug/L	50.0	<1 ug/L	94.7	65-130	0.590	30	
1,1,2,2-Tetrachloroethane	55.8 ug/L	0.4	ug/L	50.0	<0.4 ug/L	112	65-130	0.429	30	
1,1,2-Trichloroethane	52.5 ug/L	1	ug/L	50.0	<1 ug/L	105	75-125	2.18	30	
1,1-Dichloroethane	45.5 ug/L	1	ug/L	50.0	<1 ug/L	90.9	70-135	1.35	30	
1,1-Dichloroethylene	43.1 ug/L	1	ug/L	50.0	<1 ug/L	86.1	50-145	1.27	30	
1,1-Dichloropropene	48.0 ug/L	1	ug/L	50.0	<1 ug/L	96.0	75-135	0.543	30	
1,2,3-Trichlorobenzene	48.1 ug/L	1	ug/L	50.0	<1 ug/L	96.2	55-140	1.49	30	
1,2,3-Trichloropropane	55.1 ug/L	1	ug/L	50.0	<1 ug/L	110	75-125	0.382	30	
1,2,4-Trichlorobenzene	46.5 ug/L	1	ug/L	50.0	<1 ug/L	93.0	65-135	1.54	30	
1,2,4-Trimethylbenzene	47.5 ug/L	1	ug/L	50.0	<1 ug/L	95.0	75-130	1.72	30	
1,2-Dibromo-3-chloropropane (DBCP)	45.3 ug/L	1	ug/L	50.0	<1 ug/L	90.6	50-130	3.00	30	
1,2-Dibromoethane (EDB)	50.6 ug/L	1	ug/L	50.0	<1 ug/L	101	80-120	0.158	30	
1,2-Dichlorobenzene	52.1 ug/L	0.5	ug/L	50.0	<0.5 ug/L	104	70-120	2.71	30	
1,2-Dichloroethane	43.5 ug/L	1	ug/L	50.0	<1 ug/L	86.9	70-130	0.848	30	
1,2-Dichloropropane	49.5 ug/L	0.5	ug/L	50.0	<0.5 ug/L	99.0	75-125	0.425	30	
1,3,5-Trimethylbenzene	47.8 ug/L	1	ug/L	50.0	<1 ug/L	95.5	75-124	1.14	30	
1,3-Dichlorobenzene	50.9 ug/L	1	ug/L	50.0	<1 ug/L	102	75-125	1.62	30	
1,3-Dichloropropane	49.9 ug/L	1	ug/L	50.0	<1 ug/L	99.8	75-125	0.865	30	
1,4-Dichlorobenzene	49.8 ug/L	1	ug/L	50.0	<1 ug/L	99.7	75-125	1.11	30	
2,2-Dichloropropane	46.8 ug/L	1	ug/L	50.0	<1 ug/L	93.7	70-135	1.21	30	
2-Butanone (MEK)	52.9 ug/L	10	ug/L	50.0	<10 ug/L	106	30-150	10.4	30	
2-Chlorotoluene	47.8 ug/L	1	ug/L	50.0	<1 ug/L	95.5	75-125	3.08	30	
2-Hexanone (MBK)	49.6 ug/L	5	ug/L	50.0	<5 ug/L	99.1	55-130	6.37	30	
4-Chlorotoluene	48.1 ug/L	1	ug/L	50.0	<1 ug/L	96.2	75-130	2.29	30	
4-Isopropyltoluene	50.8 ug/L	1	ug/L	50.0	<1 ug/L	102	75-130	1.25	30	
4-Methyl-2-pentanone (MIBK)	52.9 ug/L	5	ug/L	50.0	<5 ug/L	106	60-135	5.89	30	
Acetone	45.2 ug/L	10	ug/L	50.0	<10 ug/L	90.4	40-140	7.67	30	
Benzene	48.7 ug/L	1	ug/L	50.0	<1 ug/L	97.5	80-120	0.266	30	
Bromobenzene	54.8 ug/L	1	ug/L	50.0	<1 ug/L	110	75-125	1.16	30	
Bromochloromethane	49.0 ug/L	1	ug/L	50.0	<1 ug/L	98.1	65-130	2.35	30	



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 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: XXXXXXXXXX  
 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

Matrix Spike Dup (BHH0929-MSD1)	Source: 24H1244-02			Prepared & Analyzed: 08/22/2024						
Bromodichloromethane	47.1 ug/L	0.5	ug/L	50.0	<0.5 ug/L	94.2	75-136	1.10	30	
Bromoform	60.3 ug/L	1	ug/L	50.0	<1 ug/L	121	70-130	1.25	30	
Bromomethane	42.0 ug/L	1	ug/L	50.0	<1 ug/L	83.9	30-145	5.47	30	
Carbon disulfide	50.4 ug/L	10	ug/L	50.0	<10 ug/L	101	35-160	0.949	30	
Carbon tetrachloride	51.2 ug/L	1	ug/L	50.0	<1 ug/L	102	65-140	0.863	30	
Chlorobenzene	50.3 ug/L	1	ug/L	50.0	<1 ug/L	101	80-120	0.159	30	
Chloroethane	33.5 ug/L	1	ug/L	50.0	<1 ug/L	67.0	60-135	1.19	30	
Chloroform	43.6 ug/L	0.5	ug/L	50.0	<0.5 ug/L	87.2	65-135	1.64	30	
Chloromethane	42.0 ug/L	1	ug/L	50.0	<1 ug/L	84.1	40-125	8.52	30	
cis-1,2-Dichloroethylene	45.9 ug/L	1	ug/L	50.0	<1 ug/L	91.9	70-125	0.694	30	
cis-1,3-Dichloropropene	48.2 ug/L	1	ug/L	50.0	<1 ug/L	96.4	47-136	0.0623	30	
Dibromochloromethane	52.5 ug/L	0.5	ug/L	50.0	<0.5 ug/L	105	60-135	0.879	30	
Dibromomethane	51.4 ug/L	1	ug/L	50.0	<1 ug/L	103	75-125	1.61	30	
Dichlorodifluoromethane	54.0 ug/L	1	ug/L	50.0	<1 ug/L	108	30-155	3.14	30	
Ethylbenzene	49.4 ug/L	1	ug/L	50.0	<1 ug/L	98.7	75-125	1.21	30	
Hexachlorobutadiene	48.3 ug/L	0.8	ug/L	50.0	0.8 ug/L	96.6	50-140	2.52	30	
Isopropylbenzene	47.1 ug/L	1	ug/L	50.0	<1 ug/L	94.3	75-125	0.0212	30	
m+p Xylenes	99.8 ug/L	2	ug/L	100	2 ug/L	99.8	75-130	0.540	30	
Methylene chloride	42.1 ug/L	4	ug/L	50.0	<4 ug/L	84.2	55-140	4.59	30	
Methyl t butyl ether (MTBE)	44.6 ug/L	1	ug/L	50.0	1 ug/L	89.2	65-125	0.0224	30	
Naphthalene	44.8 ug/L	1	ug/L	50.0	<1 ug/L	89.3	55-140	3.82	30	
n-Butylbenzene	47.3 ug/L	1	ug/L	50.0	1 ug/L	94.6	70-135	1.96	30	
n-Propylbenzene	48.8 ug/L	1	ug/L	50.0	<1 ug/L	97.6	70-130	2.55	30	
o-Xylene	51.2 ug/L	1	ug/L	50.0	1 ug/L	102	80-120	2.36	30	
sec-Butylbenzene	49.9 ug/L	1	ug/L	50.0	<1 ug/L	99.8	70-125	3.17	30	
Styrene	50.8 ug/L	1	ug/L	50.0	1 ug/L	102	65-135	1.72	30	
tert-Butylbenzene	49.7 ug/L	1	ug/L	50.0	<1 ug/L	99.4	70-130	2.63	30	
Tetrachloroethylene (PCE)	50.1 ug/L	1	ug/L	50.0	1 ug/L	100	51-231	1.31	30	
Toluene	49.0 ug/L	1	ug/L	50.0	<1 ug/L	97.9	75-120	0.924	30	
trans-1,2-Dichloroethylene	42.7 ug/L	1	ug/L	50.0	1 ug/L	85.4	60-140	2.13	30	
trans-1,3-Dichloropropene	53.0 ug/L	1	ug/L	50.0	<1 ug/L	106	55-140	1.29	30	



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 Client Site I.D.: Rapidan Emergency Response

### Volatile Organic Compounds by GCMS - Quality Control

### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0929 - SW5030B-MS

Matrix Spike Dup (BHH0929-MSD1)	Source: 24H1244-02			Prepared & Analyzed: 08/22/2024						
Trichloroethylene	50.8 ug/L	1	ug/L	50.0	<1 ug/L	102	70-125	0.550	30	
Trichlorofluoromethane	45.1 ug/L	1	ug/L	50.0	<1 ug/L	90.2	60-145	3.25	30	
Vinyl chloride	45.7 ug/L	0.5	ug/L	50.0	<0.5 ug/L	91.4	50-145	4.76	30	
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Surr: 1,2-Dichloroethane-d4 (Surr)	44.9		ug/L	50.0	ug/L	89.9	70-120			
Surr: 4-Bromofluorobenzene (Surr)	50.2		ug/L	50.0	ug/L	100	75-120			
Surr: Dibromofluoromethane (Surr)	46.3		ug/L	50.0	ug/L	92.5	70-130			
Surr: Toluene-d8 (Surr)	48.1		ug/L	50.0	ug/L	96.1	70-130			



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### Semivolatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0894 - SW3510C/EPA600-MS

#### Blank (BHH0894-BLK1)

Prepared & Analyzed: 08/22/2024

1,2,4,5-Tetrachlorobenzene	<10.0 ug/L	10.0	ug/L							
1,2,4-Trichlorobenzene	<10.0 ug/L	10.0	ug/L							
1,2-Dichlorobenzene	<10.0 ug/L	10.0	ug/L							
1,2-Diphenylhydrazine	<10.0 ug/L	10.0	ug/L							
1,3-Dichlorobenzene	<10.0 ug/L	10.0	ug/L							
1,3-Dinitrobenzene	<2.50 ug/L	2.50	ug/L							
1,4-Dichlorobenzene	<10.0 ug/L	10.0	ug/L							
1-Naphthylamine	<10.0 ug/L	10.0	ug/L							
2,3,4,6-Tetrachlorophenol	<10.0 ug/L	10.0	ug/L							
2,4,5-Trichlorophenol	<10.0 ug/L	10.0	ug/L							
2,4,6-Trichlorophenol	<10.0 ug/L	10.0	ug/L							
2,4-Dichlorophenol	<10.0 ug/L	10.0	ug/L							
2,4-Dimethylphenol	<5.00 ug/L	5.00	ug/L							
2,4-Dinitrophenol	<50.0 ug/L	50.0	ug/L							
2,4-Dinitrotoluene	<10.0 ug/L	10.0	ug/L							
2,6-Dichlorophenol	<10.0 ug/L	10.0	ug/L							
2,6-Dinitrotoluene	<10.0 ug/L	10.0	ug/L							
2-Chloronaphthalene	<10.0 ug/L	10.0	ug/L							
2-Chlorophenol	<10.0 ug/L	10.0	ug/L							
2-Methylnaphthalene	<10.0 ug/L	10.0	ug/L							
2-Naphthylamine	<10.0 ug/L	10.0	ug/L							
2-Nitroaniline	<20.0 ug/L	20.0	ug/L							
2-Nitrophenol	<10.0 ug/L	10.0	ug/L							
3,3'-Dichlorobenzidine	<10.0 ug/L	10.0	ug/L							
3-Methylcholanthrene	<10.0 ug/L	10.0	ug/L							
3-Nitroaniline	<20.0 ug/L	20.0	ug/L							
4,6-Dinitro-2-methylphenol	<50.0 ug/L	50.0	ug/L							
4-Aminobiphenyl	<10.0 ug/L	10.0	ug/L							
4-Bromophenyl phenyl ether	<10.0 ug/L	10.0	ug/L							
4-Chloroaniline	<10.0 ug/L	10.0	ug/L							
4-Chlorophenyl phenyl ether	<10.0 ug/L	10.0	ug/L							



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### Semivolatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0894 - SW3510C/EPA600-MS

##### Blank (BHH0894-BLK1)

Prepared & Analyzed: 08/22/2024

4-Nitroaniline	<20.0 ug/L	20.0	ug/L							
4-Nitrophenol	<50.0 ug/L	50.0	ug/L							
7,12-Dimethylbenz (a) anthracene	<10.0 ug/L	10.0	ug/L							
Acenaphthene	<10.0 ug/L	10.0	ug/L							
Acenaphthylene	<10.0 ug/L	10.0	ug/L							
Acetophenone	<20.0 ug/L	20.0	ug/L							
Aniline	<50.0 ug/L	50.0	ug/L							
Anthracene	<10.0 ug/L	10.0	ug/L							
Benzidine	<50.0 ug/L	50.0	ug/L							
Benzo (a) anthracene	<10.0 ug/L	10.0	ug/L							
Benzo (a) pyrene	<10.0 ug/L	10.0	ug/L							
Benzo (b) fluoranthene	<10.0 ug/L	10.0	ug/L							
Benzo (g,h,i) perylene	<10.0 ug/L	10.0	ug/L							
Benzo (k) fluoranthene	<10.0 ug/L	10.0	ug/L							
Benzoic acid	<50.0 ug/L	50.0	ug/L							
Benzyl alcohol	<20.0 ug/L	20.0	ug/L							
bis (2-Chloroethoxy) methane	<10.0 ug/L	10.0	ug/L							
bis (2-Chloroethyl) ether	<10.0 ug/L	10.0	ug/L							
2,2'-Oxybis (1-chloropropane)	<10.0 ug/L	10.0	ug/L							
bis (2-Ethylhexyl) phthalate	<10.0 ug/L	10.0	ug/L							
Butyl benzyl phthalate	<10.0 ug/L	10.0	ug/L							
Chrysene	<10.0 ug/L	10.0	ug/L							
Dibenz (a,h) anthracene	<10.0 ug/L	10.0	ug/L							
Dibenz (a,j) acridine	<10.0 ug/L	10.0	ug/L							
Dibenzofuran	<5.00 ug/L	5.00	ug/L							
Diethyl phthalate	<10.0 ug/L	10.0	ug/L							
Dimethyl phthalate	<10.0 ug/L	10.0	ug/L							
Di-n-butyl phthalate	<10.0 ug/L	10.0	ug/L							
Di-n-octyl phthalate	<10.0 ug/L	10.0	ug/L							
Diphenylamine	<10.0 ug/L	10.0	ug/L							
Ethyl methanesulfonate	<20.0 ug/L	20.0	ug/L							





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### Semivolatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0894 - SW3510C/EPA600-MS

#### Blank (BHH0894-BLK1)

Prepared & Analyzed: 08/22/2024

Fluoranthene	<10.0 ug/L	10.0	ug/L							
Fluorene	<10.0 ug/L	10.0	ug/L							
Hexachlorobenzene	<1.00 ug/L	1.00	ug/L							
Hexachlorobutadiene	<10.0 ug/L	10.0	ug/L							
Hexachlorocyclopentadiene	<10.0 ug/L	10.0	ug/L							
Hexachloroethane	<10.0 ug/L	10.0	ug/L							
Indeno (1,2,3-cd) pyrene	<10.0 ug/L	10.0	ug/L							
Isophorone	<10.0 ug/L	10.0	ug/L							
m+p-Cresols	<10.0 ug/L	10.0	ug/L							
Methyl methanesulfonate	<10.0 ug/L	10.0	ug/L							
Naphthalene	<5.00 ug/L	5.00	ug/L							
Nitrobenzene	<10.0 ug/L	10.0	ug/L							
n-Nitrosodimethylamine	<10.0 ug/L	10.0	ug/L							
n-Nitrosodi-n-butylamine	<10.0 ug/L	10.0	ug/L							
n-Nitrosodi-n-propylamine	<10.0 ug/L	10.0	ug/L							
n-Nitrosodiphenylamine	<10.0 ug/L	10.0	ug/L							
n-Nitrosopiperidine	<10.0 ug/L	10.0	ug/L							
o+m+p-Cresols	<10.0 ug/L	10.0	ug/L							
o-Cresol	<10.0 ug/L	10.0	ug/L							
p-(Dimethylamino) azobenzene	<2.50 ug/L	2.50	ug/L							
p-Chloro-m-cresol	<10.0 ug/L	10.0	ug/L							
Pentachloronitrobenzene (quintozene)	<10.0 ug/L	10.0	ug/L							
Pentachlorophenol	<20.0 ug/L	20.0	ug/L							
Phenacetin	<10.0 ug/L	10.0	ug/L							
Phenanthrene	<10.0 ug/L	10.0	ug/L							
Phenol	<10.0 ug/L	10.0	ug/L							
Pronamide	<10.0 ug/L	10.0	ug/L							
Pyrene	<10.0 ug/L	10.0	ug/L							
Pyridine	<10.0 ug/L	10.0	ug/L							
Surr: 2,4,6-Tribromophenol (Surr)	64.4		ug/L	100		64.4	5-136			
Surr: 2-Fluorobiphenyl (Surr)	25.5		ug/L	50.0		50.9	9-117			



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### Semivolatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0894 - SW3510C/EPA600-MS

##### Blank (BHH0894-BLK1)

Prepared & Analyzed: 08/22/2024

Surr: 2-Fluorophenol (Surr)	41.8		ug/L	100		41.8	5-60			
Surr: Nitrobenzene-d5 (Surr)	36.8		ug/L	50.0		73.6	5-151			
Surr: Phenol-d5 (Surr)	28.5		ug/L	100		28.5	5-60			
Surr: p-Terphenyl-d14 (Surr)	32.6		ug/L	50.0		65.2	5-141			

##### LCS (BHH0894-BS1)

Prepared & Analyzed: 08/22/2024

1,2,4-Trichlorobenzene	32.4 ug/L	10.0	ug/L	50.0	ug/L	64.9	57-130			
1,2-Dichlorobenzene	32.0 ug/L	10.0	ug/L	50.0	ug/L	64.1	22-115			
1,3-Dichlorobenzene	31.4 ug/L	10.0	ug/L	50.0	ug/L	62.7	22-112			
1,4-Dichlorobenzene	32.4 ug/L	10.0	ug/L	50.0	ug/L	64.8	13-112			
2,4,6-Trichlorophenol	34.3 ug/L	10.0	ug/L	50.0	ug/L	68.5	52-129			
2,4-Dichlorophenol	36.0 ug/L	10.0	ug/L	50.0	ug/L	71.9	53-122			
2,4-Dimethylphenol	37.7 ug/L	5.00	ug/L	50.0	ug/L	75.5	42-120			
2,4-Dinitrophenol	<50.0 ug/L	50.0	ug/L	50.0	ug/L	85.6	48-127			
2,4-Dinitrotoluene	43.5 ug/L	10.0	ug/L	50.0	ug/L	86.9	10-173			
2,6-Dinitrotoluene	40.0 ug/L	10.0	ug/L	50.0	ug/L	80.0	68-137			
2-Chloronaphthalene	32.5 ug/L	10.0	ug/L	50.0	ug/L	65.1	65-120			
2-Chlorophenol	33.1 ug/L	10.0	ug/L	50.0	ug/L	66.3	36-120			
2-Nitrophenol	41.7 ug/L	10.0	ug/L	50.0	ug/L	83.4	45-167			
3,3'-Dichlorobenzidine	30.3 ug/L	10.0	ug/L	50.0	ug/L	60.5	10-213			
4,6-Dinitro-2-methylphenol	<50.0 ug/L	50.0	ug/L	50.0	ug/L	92.6	53-130			
4-Bromophenyl phenyl ether	32.7 ug/L	10.0	ug/L	50.0	ug/L	65.3	65-120			
4-Chlorophenyl phenyl ether	32.6 ug/L	10.0	ug/L	50.0	ug/L	65.3	38-145			
4-Nitrophenol	<50.0 ug/L	50.0	ug/L	50.0	ug/L	33.1	13-129			
Acenaphthene	34.4 ug/L	10.0	ug/L	50.0	ug/L	68.8	60-132			
Acenaphthylene	36.2 ug/L	10.0	ug/L	50.0	ug/L	72.4	54-126			
Acetophenone	30.3 ug/L	20.0	ug/L	50.0	ug/L	60.6	0-200			
Anthracene	32.9 ug/L	10.0	ug/L	50.0	ug/L	65.8	43-120			
Benzo (a) anthracene	38.1 ug/L	10.0	ug/L	50.0	ug/L	76.2	42-133			
Benzo (a) pyrene	39.8 ug/L	10.0	ug/L	50.0	ug/L	79.6	32-148			
Benzo (b) fluoranthene	44.5 ug/L	10.0	ug/L	50.0	ug/L	89.0	42-140			
Benzo (g,h,i) perylene	45.3 ug/L	10.0	ug/L	50.0	ug/L	90.7	10-195			



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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: XXXXXXXXXX  
 Client Site I.D.: Rapidan Emergency Response

### Semivolatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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#### Batch BHH0894 - SW3510C/EPA600-MS

#### LCS (BHH0894-BS1)

Prepared & Analyzed: 08/22/2024

Benzo (k) fluoranthene	33.9 ug/L	10.0	ug/L	50.0	ug/L	67.9	25-146			
bis (2-Chloroethoxy) methane	33.8 ug/L	10.0	ug/L	50.0	ug/L	67.6	49-165			
bis (2-Chloroethyl) ether	33.8 ug/L	10.0	ug/L	50.0	ug/L	67.5	43-126			
2,2'-Oxybis (1-chloropropane)	34.7 ug/L	10.0	ug/L	50.0	ug/L	69.4	63-139			
bis (2-Ethylhexyl) phthalate	33.4 ug/L	10.0	ug/L	50.0	ug/L	66.9	29-137			
Butyl benzyl phthalate	35.1 ug/L	10.0	ug/L	50.0	ug/L	70.2	10-140			
Chrysene	35.0 ug/L	10.0	ug/L	50.0	ug/L	69.9	44-140			
Dibenz (a,h) anthracene	44.1 ug/L	10.0	ug/L	50.0	ug/L	88.2	10-200			
Diethyl phthalate	36.3 ug/L	10.0	ug/L	50.0	ug/L	72.6	10-120			
Dimethyl phthalate	35.8 ug/L	10.0	ug/L	50.0	ug/L	71.5	10-120			
Di-n-butyl phthalate	38.0 ug/L	10.0	ug/L	50.0	ug/L	75.9	10-120			
Di-n-octyl phthalate	39.7 ug/L	10.0	ug/L	50.0	ug/L	79.5	19-132			
Fluoranthene	39.6 ug/L	10.0	ug/L	50.0	ug/L	79.3	43-121			
Fluorene	36.0 ug/L	10.0	ug/L	50.0	ug/L	72.0	70-120			
Hexachlorobenzene	32.9 ug/L	1.00	ug/L	50.0	ug/L	65.7	10-142			
Hexachlorobutadiene	35.3 ug/L	10.0	ug/L	50.0	ug/L	70.6	38-120			
Hexachlorocyclopentadiene	28.0 ug/L	10.0	ug/L	50.0	ug/L	56.1	10-76			
Hexachloroethane	36.4 ug/L	10.0	ug/L	50.0	ug/L	72.7	55-120			
Indeno (1,2,3-cd) pyrene	44.5 ug/L	10.0	ug/L	50.0	ug/L	89.0	10-151			
Isophorone	26.5 ug/L	10.0	ug/L	50.0	ug/L	52.9	47-180			
Naphthalene	30.1 ug/L	5.00	ug/L	50.0	ug/L	60.3	36-120			
Nitrobenzene	39.9 ug/L	10.0	ug/L	50.0	ug/L	79.9	54-158			
n-Nitrosodimethylamine	27.5 ug/L	10.0	ug/L	50.0	ug/L	55.0	10-85			
n Nitrosodi n propylamine	33.5 ug/L	10.0	ug/L	50.0	ug/L	66.9	14-198			
n-Nitrosodiphenylamine	29.5 ug/L	10.0	ug/L	50.0	ug/L	58.9	12-97			
Pentachloronitrobenzene (quintozene)	10.0 ug/L	10.0	ug/L		ug/L		0-200			
Pentachlorophenol	28.2 ug/L	20.0	ug/L	50.0	ug/L	56.4	38-152			
Phenanthrene	37.5 ug/L	10.0	ug/L	50.0	ug/L	74.9	65-120			
Phenol	16.2 ug/L	10.0	ug/L	50.5	ug/L	32.2	17-120			
Pyrene	33.5 ug/L	10.0	ug/L	50.0	ug/L	67.0	70-120			L
Pyridine	22.7 ug/L	10.0	ug/L	50.0	ug/L	45.3	10-103			



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## Certificate of Analysis

### Final Report

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 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: XXXXXXXXXX  
 Client Site I.D.: Rapidan Emergency Response

### Semivolatile Organic Compounds by GCMS - Quality Control

#### Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	------

#### Batch BHH0894 - SW3510C/EPA600-MS

#### LCS (BHH0894-BS1)

Prepared & Analyzed: 08/22/2024

Surr: 2,4,6-Tribromophenol (Surr)	70.7		ug/L	100	ug/L	70.7	5-136			
Surr: 2-Fluorobiphenyl (Surr)	27.8		ug/L	50.0	ug/L	55.6	9-117			
Surr: 2-Fluorophenol (Surr)	40.4		ug/L	100	ug/L	40.4	5-60			
Surr: Nitrobenzene-d5 (Surr)	37.0		ug/L	50.0	ug/L	74.1	5-151			
Surr: Phenol-d5 (Surr)	29.5		ug/L	100	ug/L	29.5	5-60			
Surr: p-Terphenyl-d14 (Surr)	32.4		ug/L	50.0	ug/L	64.9	5-141			

## Certificate of Analysis

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 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: XXXXXXXXXX  
 Client Site I.D.: Rapidan Emergency Response

### Certified Analyses included in this Report

Analyte	Certifications
<b>SW8260D in Non-Potable Water</b>	
1,1,1,2-Tetrachloroethane	VELAP,NCDEQ,PADEP,WVDEP
1,1,1-Trichloroethane	VELAP,NCDEQ,PADEP,WVDEP
1,1,2,2-Tetrachloroethane	VELAP,NCDEQ,PADEP,WVDEP
1,1,2-Trichloroethane	VELAP,NCDEQ,PADEP,WVDEP
1,1-Dichloroethane	VELAP,NCDEQ,PADEP,WVDEP
1,1-Dichloroethylene	VELAP,NCDEQ,PADEP,WVDEP
1,1-Dichloropropene	VELAP,NCDEQ,PADEP,WVDEP
1,2,3-Trichlorobenzene	VELAP,NCDEQ,PADEP,WVDEP
1,2,3-Trichloropropane	VELAP,NCDEQ,PADEP,WVDEP
1,2,4-Trichlorobenzene	VELAP,NCDEQ,PADEP,WVDEP
1,2,4-Trimethylbenzene	VELAP,NCDEQ,PADEP,WVDEP
1,2-Dibromo-3-chloropropane (DBCP)	VELAP,NCDEQ,PADEP,WVDEP
1,2-Dibromoethane (EDB)	VELAP,NCDEQ,PADEP,WVDEP
1,2-Dichlorobenzene	VELAP,NCDEQ,PADEP,WVDEP
1,2-Dichloroethane	VELAP,NCDEQ,PADEP,WVDEP
1,2-Dichloropropane	VELAP,NCDEQ,PADEP,WVDEP
1,3,5-Trimethylbenzene	VELAP,NCDEQ,PADEP,WVDEP
1,3-Dichlorobenzene	VELAP,NCDEQ,PADEP,WVDEP
1,3-Dichloropropane	VELAP,NCDEQ,PADEP,WVDEP
1,4-Dichlorobenzene	VELAP,NCDEQ,PADEP,WVDEP
2,2-Dichloropropane	VELAP,NCDEQ,PADEP,WVDEP
2-Butanone (MEK)	VELAP,NCDEQ,PADEP,WVDEP
2-Chlorotoluene	VELAP,NCDEQ,PADEP,WVDEP
2-Hexanone (MBK)	VELAP,NCDEQ,PADEP,WVDEP
4-Chlorotoluene	VELAP,NCDEQ,PADEP,WVDEP
4-Isopropyltoluene	VELAP,NCDEQ,PADEP,WVDEP
4-Methyl-2-pentanone (MIBK)	VELAP,NCDEQ,PADEP,WVDEP
Acetone	VELAP,NCDEQ,PADEP,WVDEP
Benzene	VELAP,NCDEQ,PADEP,WVDEP
Bromobenzene	VELAP,NCDEQ,PADEP,WVDEP
Bromochloromethane	VELAP,NCDEQ,PADEP,WVDEP
Bromodichloromethane	VELAP,NCDEQ,PADEP,WVDEP
Bromoform	VELAP,NCDEQ,PADEP,WVDEP
Bromomethane	VELAP,NCDEQ,PADEP,WVDEP
Carbon disulfide	VELAP,NCDEQ,PADEP,WVDEP
Carbon tetrachloride	VELAP,NCDEQ,PADEP,WVDEP
Chlorobenzene	VELAP,NCDEQ,PADEP,WVDEP

## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: XXXXXXXXXX  
 Client Site I.D.: Rapidan Emergency Response

### Certified Analyses included in this Report

Analyte	Certifications
Chloroethane	VELAP,NCDEQ,PADEP,WVDEP
Chloroform	VELAP,NCDEQ,PADEP,WVDEP
Chloromethane	VELAP,NCDEQ,PADEP,WVDEP
cis-1,2-Dichloroethylene	VELAP,NCDEQ,PADEP,WVDEP
cis-1,3-Dichloropropene	VELAP,NCDEQ,PADEP,WVDEP
Dibromochloromethane	VELAP,NCDEQ,PADEP,WVDEP
Dibromomethane	VELAP,NCDEQ,PADEP,WVDEP
Dichlorodifluoromethane	VELAP,NCDEQ,PADEP,WVDEP
Di-isopropyl ether (DIPE)	VELAP,NCDEQ,PADEP,WVDEP
Ethylbenzene	VELAP,NCDEQ,PADEP,WVDEP
Hexachlorobutadiene	VELAP,NCDEQ,PADEP,WVDEP
Iodomethane	VELAP,NCDEQ,PADEP,WVDEP
Isopropylbenzene	VELAP,NCDEQ,PADEP,WVDEP
m+p-Xylenes	VELAP,NCDEQ,PADEP,WVDEP
Methylene chloride	VELAP,NCDEQ,PADEP,WVDEP
Methyl-t-butyl ether (MTBE)	VELAP,NCDEQ,PADEP,WVDEP
Naphthalene	VELAP,NCDEQ,PADEP,WVDEP
n-Butylbenzene	VELAP,NCDEQ,PADEP,WVDEP
n-Propylbenzene	VELAP,NCDEQ,PADEP,WVDEP
o-Xylene	VELAP,NCDEQ,PADEP,WVDEP
sec-Butylbenzene	VELAP,NCDEQ,PADEP,WVDEP
Styrene	VELAP,NCDEQ,PADEP,WVDEP
tert-Butylbenzene	VELAP,NCDEQ,PADEP,WVDEP
Tetrachloroethylene (PCE)	VELAP,NCDEQ,PADEP,WVDEP
Toluene	VELAP,NCDEQ,PADEP,WVDEP
trans-1,2-Dichloroethylene	VELAP,NCDEQ,PADEP,WVDEP
trans-1,3-Dichloropropene	VELAP,NCDEQ,PADEP,WVDEP
Trichloroethylene	VELAP,NCDEQ,PADEP,WVDEP
Trichlorofluoromethane	VELAP,NCDEQ,PADEP,WVDEP
Vinyl acetate	VELAP,NCDEQ,PADEP,WVDEP
Vinyl chloride	VELAP,NCDEQ,PADEP,WVDEP
Xylenes, Total	VELAP,NCDEQ,PADEP,WVDEP
Tetrahydrofuran	VELAP,PADEP
<b>SW8270E in Non-Potable Water</b>	
1,2,4,5-Tetrachlorobenzene	NCDEQ,WVDEP,VELAP,PADEP
1,2,4-Trichlorobenzene	NCDEQ,WVDEP,VELAP,PADEP
1,2-Dichlorobenzene	NCDEQ,WVDEP,VELAP,PADEP
1,2-Diphenylhydrazine	NCDEQ,WVDEP,VELAP,PADEP

## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: XXXXXXXXXX  
 Client Site I.D.: Rapidan Emergency Response

### Certified Analyses included in this Report

Analyte	Certifications
1,3-Dichlorobenzene	NCDEQ,WVDEP,VELAP,PADEP
1,3-Dinitrobenzene	NCDEQ,WVDEP,VELAP,PADEP
1,4-Dichlorobenzene	NCDEQ,WVDEP,VELAP,PADEP
1-Naphthylamine	NCDEQ,WVDEP,VELAP,PADEP
2,3,4,6-Tetrachlorophenol	NCDEQ,WVDEP,VELAP,PADEP
2,4,5-Trichlorophenol	NCDEQ,WVDEP,VELAP,PADEP
2,4,6-Trichlorophenol	NCDEQ,WVDEP,VELAP,PADEP
2,4-Dichlorophenol	NCDEQ,WVDEP,VELAP,PADEP
2,4-Dimethylphenol	NCDEQ,WVDEP,VELAP,PADEP
2,4-Dinitrophenol	NCDEQ,WVDEP,VELAP,PADEP
2,4-Dinitrotoluene	NCDEQ,WVDEP,VELAP,PADEP
2,6-Dichlorophenol	NCDEQ,WVDEP,VELAP,PADEP
2,6-Dinitrotoluene	NCDEQ,WVDEP,VELAP,PADEP
2-Chloronaphthalene	NCDEQ,WVDEP,VELAP,PADEP
2-Chlorophenol	NCDEQ,WVDEP,VELAP,PADEP
2-Methylnaphthalene	NCDEQ,WVDEP,VELAP,PADEP
2-Naphthylamine	NCDEQ,WVDEP,VELAP,PADEP
2-Nitroaniline	NCDEQ,WVDEP,VELAP,PADEP
2-Nitrophenol	NCDEQ,WVDEP,VELAP,PADEP
3,3'-Dichlorobenzidine	NCDEQ,WVDEP,VELAP,PADEP
3-Methylcholanthrene	NCDEQ,WVDEP,VELAP,PADEP
3-Nitroaniline	NCDEQ,WVDEP,VELAP,PADEP
4,6-Dinitro-2-methylphenol	NCDEQ,WVDEP,VELAP,PADEP
4-Aminobiphenyl	NCDEQ,WVDEP,VELAP,PADEP
4-Bromophenyl phenyl ether	NCDEQ,WVDEP,VELAP,PADEP
4-Chloroaniline	NCDEQ,WVDEP,VELAP,PADEP
4-Chlorophenyl phenyl ether	NCDEQ,WVDEP,VELAP,PADEP
4-Nitroaniline	NCDEQ,WVDEP,VELAP,PADEP
4-Nitrophenol	NCDEQ,WVDEP,VELAP,PADEP
7,12-Dimethylbenz (a) anthracene	NCDEQ,WVDEP,VELAP,PADEP
Acenaphthene	NCDEQ,WVDEP,VELAP,PADEP
Acenaphthylene	NCDEQ,WVDEP,VELAP,PADEP
Acetophenone	NCDEQ,WVDEP,VELAP,PADEP
Aniline	NCDEQ,WVDEP,VELAP,PADEP
Anthracene	NCDEQ,WVDEP,VELAP,PADEP
Benzidine	NCDEQ,WVDEP,VELAP,PADEP
Benzo (a) anthracene	NCDEQ,WVDEP,VELAP,PADEP
Benzo (a) pyrene	NCDEQ,WVDEP,VELAP,PADEP

## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Purchase Order:  
 Midlothian VA, 23113  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

### Certified Analyses included in this Report

Analyte	Certifications
Benzo (b) fluoranthene	NCDEQ,WVDEP,VELAP,PADEP
Benzo (g,h,i) perylene	NCDEQ,WVDEP,VELAP,PADEP
Benzo (k) fluoranthene	NCDEQ,WVDEP,VELAP,PADEP
Benzoic acid	NCDEQ,WVDEP,VELAP,PADEP
Benzyl alcohol	NCDEQ,WVDEP,VELAP,PADEP
bis (2-Chloroethoxy) methane	NCDEQ,WVDEP,VELAP,PADEP
bis (2-Chloroethyl) ether	NCDEQ,WVDEP,VELAP,PADEP
2,2'-Oxybis (1-chloropropane)	NCDEQ,WVDEP,VELAP,PADEP
bis (2-Ethylhexyl) phthalate	NCDEQ,WVDEP,VELAP,PADEP
Butyl benzyl phthalate	NCDEQ,WVDEP,VELAP,PADEP
Chrysene	NCDEQ,WVDEP,VELAP,PADEP
Dibenz (a,h) anthracene	NCDEQ,WVDEP,VELAP,PADEP
Dibenz (a,j) acridine	NCDEQ,WVDEP,VELAP,PADEP
Dibenzofuran	NCDEQ,WVDEP,VELAP,PADEP
Diethyl phthalate	NCDEQ,WVDEP,VELAP,PADEP
Dimethyl phthalate	NCDEQ,WVDEP,VELAP,PADEP
Di-n-butyl phthalate	NCDEQ,WVDEP,VELAP,PADEP
Di-n-octyl phthalate	NCDEQ,WVDEP,VELAP,PADEP
Diphenylamine	NCDEQ,WVDEP,VELAP,PADEP
Ethyl methanesulfonate	NCDEQ,WVDEP,VELAP,PADEP
Fluoranthene	NCDEQ,WVDEP,VELAP,PADEP
Fluorene	NCDEQ,WVDEP,VELAP,PADEP
Hexachlorobenzene	NCDEQ,WVDEP,VELAP,PADEP
Hexachlorobutadiene	NCDEQ,WVDEP,VELAP,PADEP
Hexachlorocyclopentadiene	NCDEQ,WVDEP,VELAP,PADEP
Hexachloroethane	NCDEQ,WVDEP,VELAP,PADEP
Indeno (1,2,3-cd) pyrene	NCDEQ,WVDEP,VELAP,PADEP
Isophorone	NCDEQ,WVDEP,VELAP,PADEP
m+p-Cresols	NCDEQ,WVDEP,VELAP,PADEP
Methyl methanesulfonate	NCDEQ,WVDEP,VELAP,PADEP
Naphthalene	NCDEQ,WVDEP,VELAP,PADEP
Nitrobenzene	NCDEQ,WVDEP,VELAP,PADEP
n-Nitrosodimethylamine	NCDEQ,WVDEP,VELAP,PADEP
n-Nitrosodi-n-butylamine	NCDEQ,WVDEP,VELAP,PADEP
n-Nitrosodi-n-propylamine	NCDEQ,WVDEP,VELAP,PADEP
n-Nitrosodiphenylamine	NCDEQ,WVDEP,VELAP,PADEP
n-Nitrosopiperidine	NCDEQ,WVDEP,VELAP,PADEP
o+m+p-Cresols	NCDEQ,WVDEP,VELAP





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## Certificate of Analysis

### Final Report

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
 203 Wylderose Court Project Number: [none]  
 Midlothian VA, 23113 Purchase Order:  
 Submitted To: [REDACTED]  
 Client Site I.D.: Rapidan Emergency Response

### Certified Analyses included in this Report

Analyte	Certifications
o-Cresol	NCDEQ,WVDEP,VELAP,PADEP
p-(Dimethylamino) azobenzene	NCDEQ,WVDEP,VELAP,PADEP
p-Chloro-m-cresol	NCDEQ,WVDEP,VELAP,PADEP
Pentachloronitrobenzene (quintozene)	NCDEQ,WVDEP,VELAP,PADEP
Pentachlorophenol	NCDEQ,WVDEP,VELAP,PADEP
Phenacetin	NCDEQ,WVDEP,VELAP,PADEP
Phenanthrene	NCDEQ,WVDEP,VELAP,PADEP
Phenol	NCDEQ,WVDEP,VELAP,PADEP
Pronamide	NCDEQ,WVDEP,VELAP,PADEP
Pyrene	NCDEQ,WVDEP,VELAP,PADEP
Pyridine	NCDEQ,WVDEP,VELAP,PADEP

  

Code	Description	Laboratory ID	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2024
NCDEQ	North Carolina DEQ	495	12/31/2024
NCDOH	North Carolina Department of Health	51714	07/31/2025
NYDOH	New York DOH Drinking Water	12069	04/01/2025
PADEP	NELAP-Pennsylvania Certificate #009	68-03503	10/31/2024
SCDHEC	South Carolina Dept of Health and Environmental	93016	09/14/2024
TXCEQ	Texas Comm on Environmental Quality #T104704	T104704576	05/31/2025
VELAP	NELAP-Virginia Certificate #12969	460021	06/14/2025
WVDEP	West Virginia DEP	350	11/30/2024



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### Certificate of Analysis

#### Final Report

Client Name:	APEX Companies, LLC. - Richmond VA 203 Wylderose Court Midlothian VA, 23113	Date Issued:	August 23, 2024 17:13
Submitted To:	[REDACTED]	Project Number:	[none]
Client Site I.D.:	Rapidan Emergency Response	Purchase Order:	

#### Summary of Data Qualifiers

- C Continuing calibration verification response for this analyte is outside specifications.
- Cl Residual Chlorine or other oxidizing agent was detected in the container used to analyze this sample.
- L LCS recovery is outside of established acceptance limits
- S Surrogate recovery was outside acceptance criteria
- RPD Relative Percent Difference
- Qual Qualifiers
- RE Denotes sample was re-analyzed
- D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.
- TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.
- PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.



1941 REYMET ROAD  
 RICHMOND, VIRGINIA 23237  
 (804) 358-8295 PHONE  
 (804)358-8297 FAX

Chain of Custody  
 Effective: Jan 31, 2024

CHAIN OF CUSTODY

PAGE 1 OF 1

COMPANY NAME: <u>Apex Companies LLC</u>	INVOICE TO: <u>Same</u>	PROJECT NAME/Quote #: <u>Rapidan Emergency Response</u>
CONTACT: [Redacted]	INVOICE CONTACT:	SITE NAME: <u>Rapidan Emergency Response</u>
ADDRESS: <u>203 Wyldercast Court</u>	INVOICE ADDRESS:	PROJECT NUMBER: <u>-</u>
PHONE #: <u>804-357-0737</u>	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL: [Redacted]	Pretreatment Program:
Is sample for compliance reporting? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Regulatory State:	Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
SAMPLER NAME (PRINT): [Redacted]		PWS I.D. #:
SAMPLER SIGNATURE: [Redacted]		Turn Around Time: Circle 10 5 Days or <u>Day(s)</u> <u>(Push)</u>

Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other

LAB USE ONLY	Cooler Temp	Therm ID:	Observed Temp °C	Correction Factor °C	Corrected Temp °C	Grab	Composite	Field Filtered (Dissolved Metals)	Composite Start Date	Composite Start Time	Grab Date or Composite Stop Date	Grab Time or Composite Stop Time	Time Preserved	Matrix (See Codes)	Number of Containers	ANALYSIS				COMMENTS																																																																																																																																																																																																																							
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CLIENT SAMPLE I.D. <u>(24) Trip Blank</u>																				Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol  PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)																																																																																																																																																																																																																							
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  | | | | Observed Temp °C: 27.1 ice 1.5   Correction Factor °C: rosca 0.0   Corrected Temp °C: 1.5 |

RELINQUISHED: [Redacted]	DATE / TIME: <u>8-22-24 / 838</u>	RECEIVED: [Redacted]	DATE / TIME: <u>8.22.24</u>	QC Data Package Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	LAB USE ONLY
RELINQUISHED: [Redacted]	DATE / TIME: [Redacted]	RECEIVED: [Redacted]	DATE / TIME: <u>0840</u>	Custody Seals used and intact? (Y/N) <u>(Y)</u>	<b>APEX-Richmond 24H1244</b> <b>Rapidan Emergency Response</b> <b>Recd: 08/22/2024 Due: 08/23/2024</b>
RELINQUISHED: [Redacted]	DATE / TIME: [Redacted]	RECEIVED: [Redacted]	DATE / TIME: [Redacted]	Received on ice? (Y/N) <u>(Y)</u>	



# Sample Preservation Log

Order ID \_\_\_\_\_

Date Performed: 8.22.24

Analyst Performing Check: JH

Sample ID	Container ID	Metals		Cyanide		Sulfide		Ammonia		TKN		Phos, Tot		NO3+NO2		DRO		Pesticide (8081/608/508) PCB DW only			SVOC (525/8270/625)			CrVI * **			Pest/PCB (508) / SVOC(525)			pH as Received			pH as Received															
		pH as Received		Final pH		pH as Received		Final pH		pH as Received		Final pH		pH as Received		Final pH		pH as Received		Final pH		Received Res. Cl	final + or -	Received Res. Cl	final + or -	Received pH	Final pH	pH as Received		Final pH	pH as Received		Final pH															
		< 2	Other			> 12	Other			> 9	Other			< 2	Other			< 2	Other			+	-			+	-			< 2	Other			Other														
<u>2</u>	<u>A</u>																																															
<u>3</u>	<u>A</u>																																															
<u>4</u>	<u>A</u>																																															

NaOH ID: \_\_\_\_\_ HNO3 ID: \_\_\_\_\_  
H2SO4 ID: \_\_\_\_\_ Na2S2O3 ID: \_\_\_\_\_  
HCL ID: \_\_\_\_\_ Na2SO3 ID: \_\_\_\_\_

CrVI preserved date/time: \_\_\_\_\_ Analyst Initials: \_\_\_\_\_  
*\* pH must be adjusted between 9.3 - 9.7*  
Ammonia Buffer Sol'n ID: \_\_\_\_\_  
5N NaOH ID: \_\_\_\_\_

\*\*W.Va only certifies DISS CrVI and not T CrVI as an approved analyte under 40CFR136 for waste water.



1941 Reymet Road • Richmond, Virginia 23230 • Tel: (804)-358-8295 Fax: (804)-358-8297

### Certificate of Analysis

*Final Report*

Client Name: APEX Companies, LLC. - Richmond VA Date Issued: August 23, 2024 17:13  
203 Wylderose Court Project Number: [none]  
Purchase Order:  
Midlothian VA, 23113  
Submitted To: [REDACTED]  
Client Site I.D.: Rapidan Emergency Response

### Sample Conditions Checklist

Samples Received at:	1.50°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	Yes
Are all volatile organic and TOX containers free of headspace?	Yes
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK 175	Yes
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis. In addition, field parameters are always received outside holding time and will be marked accordingly.	Yes

Results for VOC8260 due 8/22/24  
SVoc8270 due 8/23/24  
[REDACTED] notified via email  
JNH 8/22/24 0940