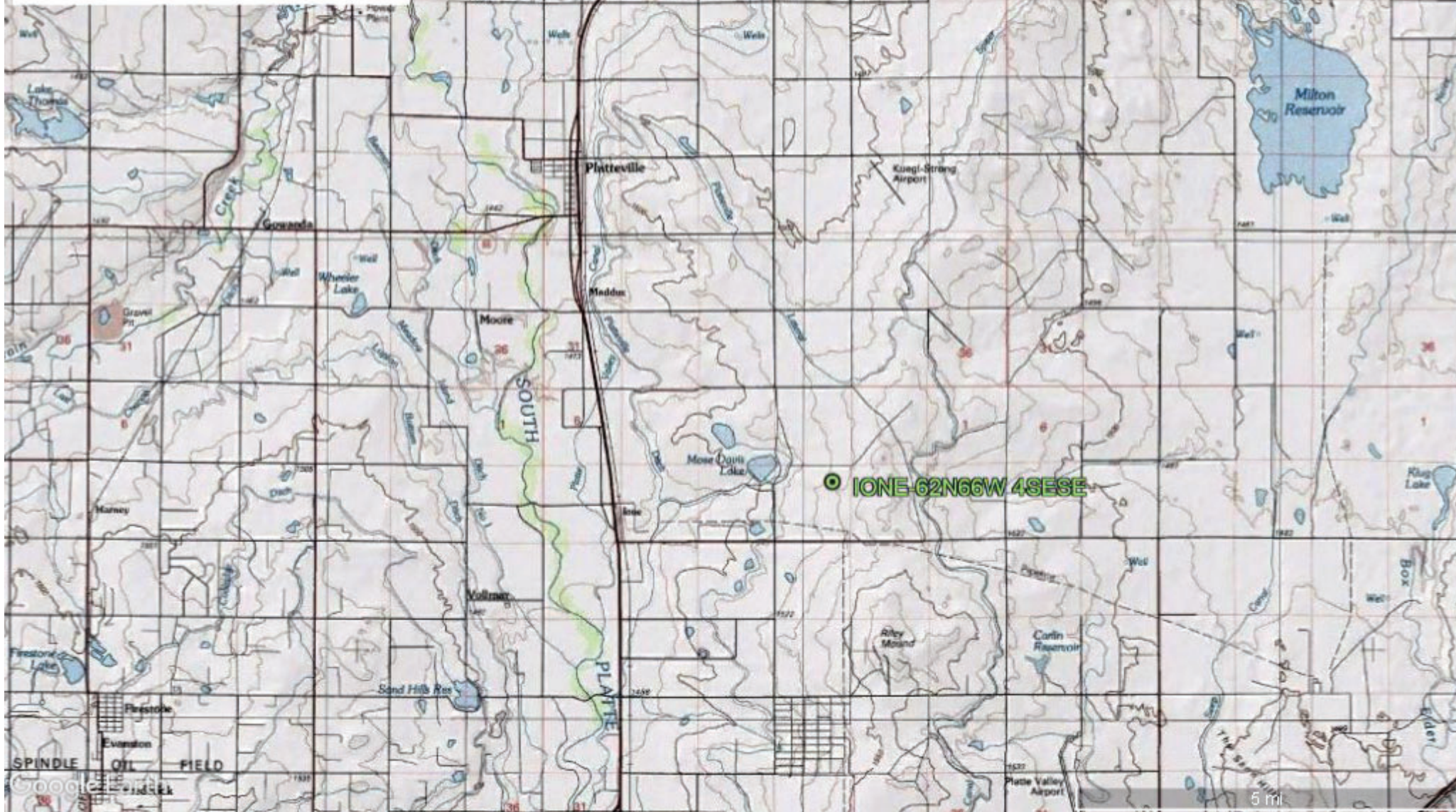




**Topographic Location
Map
"Ione #10 HZ"**





Laboratory Results Summary Table - Soil Ione 10HZ

			Organics (mg/kg)					(mmhos/cm)	Units	(pH Units)
COGCC Allowable Concentration (Soil) -->			500	0.17	85	100	175	4	12	(6-9)
Location	Sample Date	Sample ID	TPH (total volatile and extractable petroleum hydrocarbons) (TPH-GRO + TPH-DRO)	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (Specific Conductance) (<4 mmhos/cm or 2x background)	SAR (Sodium Adsorption Ratio) (calculation)	pH
IONE 10HZ - Spill Release	7/8/19	S01@2	3100	0.16	14	1.9	74	NA	NA	NA
IONE 10HZ - Spill Release	7/8/19	B04@3	17900	28	220	33	380	NA	NA	NA
IONE 10HZ - Spill Release	7/8/19	E03@2	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
IONE 10HZ - Spill Release	7/8/19	B01@3	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
IONE 10HZ - Spill Release	7/8/19	W01@2	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
IONE 10HZ - Spill Release	7/8/19	N01@2	67.1	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
IONE 10HZ - Spill Release	7/8/19	S02@2	<50	<0.0020	<0.0050	<0.0050	0.029	NA	NA	NA
IONE 10HZ - Spill Release	7/8/19	E02@2	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
IONE 10HZ - Spill Release	7/8/19	N03@2	<50	0.015	0.028	<0.0050	0.019	NA	NA	NA
IONE 10HZ - Spill Release	7/17/19	W02@3'	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
IONE 10HZ - Spill Release	7/17/19	S01@4'	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
IONE 10HZ - Spill Release	7/17/19	E02@2.5'	NA	NA	NA	NA	NA	0.0906	2.60	6.44
IONE 10HZ - Spill Release	7/18/19	S05@2	<50	<0.0020	0.0086	<0.0050	<0.010	NA	NA	NA
IONE 10HZ - Spill Release	7/19/19	B03@9'	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
IONE 10HZ - Spill Release	7/19/19	B04@6.5'	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA

Attachment A

Laboratory Analytical Report

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 11, 2019

Maggie Graham

Apex Companies

176 Cole Blvd. Suite 250

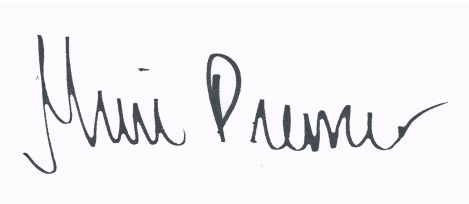
Lakewood, CO 80101

RE: CPR - Ione 10 HZ Spill/Release

Work Order # 1907062

Enclosed are the results of analyses for samples received by Summit Scientific on 07/08/19 16:12. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", on a light blue background.

Muri Premier For Paul Shrewsbury

President



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release

Project Number: 125.1902.01-431789

Project Manager: Maggie Graham

Reported:
07/11/19 14:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@3	1907062-01	Soil	07/08/19 12:47	07/08/19 16:12
W01@2	1907062-04	Soil	07/08/19 12:52	07/08/19 16:12
N01@2	1907062-05	Soil	07/08/19 13:01	07/08/19 16:12
S01@2	1907062-06	Soil	07/08/19 13:03	07/08/19 16:12
S02@2	1907062-07	Soil	07/08/19 13:04	07/08/19 16:12
B04@3	1907062-09	Soil	07/08/19 13:19	07/08/19 16:12
E02@2	1907062-11	Soil	07/08/19 13:22	07/08/19 16:12
E03@2	1907062-12	Soil	07/08/19 14:00	07/08/19 16:12
N03@2	1907062-13	Soil	07/08/19 14:01	07/08/19 16:12

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

303-277-9310 ♦ 303-374-5933 Fax

Client: APEX Companies, LLC

Address: 176 Cole Blvd. Suite 250

City/State/Zip: Lakewood, Colorado 80101

Phone: 720-501-5065

Sampler Name: Sage Maher

Project Manager: Maggie Graham 720-501-5065; 907-538-7699c MaggieGraham@ApexCos.com

E-Mail: DenverRemediation@ApexCos.com

E-Mail: DenverRemediation@ApexCos.com David.Tewkesbury@CrestonePR.com

Project Name: Tene 10 H7 Spill / Release

Project Number: 125.1902.01-431789

www.s2scientific.com

Summit Scientific

Page 2 of 2

Sampler Name: Sage Maher

Project Number: 125.1902.01-431789

				Preservative				Matrix				Analyze For:								
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	GBTEX	TPH-DRO						Special Instructions	
ED2@2	7/8/19	1322	1			X			X						X				Call Maggie Graham with questions	
ED3@2	↓	1400	↓			↓		↓				X	X							
NP3@2	↓	1401	↓			↓		↓							X					
Relinquished by: <u>Julie</u> Date/Time: <u>7/8/19 1612</u>				Received by: <u>[Signature]</u> Date/Time: <u>07/08/19 1612</u>				Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>										Notes Circle applicable regulatory agency: <u>OGCC/CDPHE</u>		
Relinquished by: _____ Date/Time: _____				Received by: <u>[Signature]</u> Date/Time: _____				Sample Integrity: Temperature Upon Receipt: <u>4.8</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										Client Name: <u>CPR</u>		
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____																

Sample Receipt Checklist

S2 Work Order

1907062

Client: Apex Companies, LLC

Client Project ID: Lone 10HZ Spill/Release

Shipped Via: (H.D.) P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

Matrix (check all that apply): _____ Air X Soil/Solid _____ Water _____ Other: _____
(Describe)

Temp (°C)	<u>4.8</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<u>X</u>			
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
If custody seals are present, are they intact ⁽¹⁾ ?			<u>X</u>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<u>X</u>			<u>SAME DAY AT</u>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<u>X</u>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<u>X</u>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			<u>X</u>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<u>X</u>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name or Initials

KE

Signature of Custodian

[Signature]

Date/Time

07/08/19

1615



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

B01@3
1907062-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/19 12:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1907113	07/09/19	07/09/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/19 12:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/19 12:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1907119	07/09/19	07/09/19	EPA 8015M	

Date Sampled: **07/08/19 12:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

W01@2
1907062-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/19 12:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1907113	07/09/19	07/09/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/19 12:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/19 12:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1907119	07/09/19	07/09/19	EPA 8015M	

Date Sampled: **07/08/19 12:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

N01@2
1907062-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/19 13:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1907113	07/09/19	07/09/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.2	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/19 13:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/19 13:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	66	50	mg/kg	1	1907119	07/09/19	07/09/19	EPA 8015M	

Date Sampled: **07/08/19 13:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		106 %	30-150		"	"	"	"	

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

S01@2
1907062-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/19 13:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.16	0.0020	mg/kg	1	1907099	07/08/19	07/09/19	EPA 8260B	
Toluene	14	0.50	"	100	"	"	"	"	
Ethylbenzene	1.9	0.50	"	"	"	"	"	"	
Xylenes (total)	74	1.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1900	50	"	"	"	"	"	"	

Date Sampled: **07/08/19 13:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.8 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.0 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		133 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/19 13:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	1200	50	mg/kg	1	1907100	"	07/08/19	EPA 8015M	

Date Sampled: **07/08/19 13:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>		105 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

S02@2
1907062-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/19 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1907113	07/09/19	07/09/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.029	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/19 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/19 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1907119	07/09/19	07/10/19	EPA 8015M	

Date Sampled: **07/08/19 13:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

B04@3
1907062-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/19 13:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	28	0.20	mg/kg	100	1907099	07/08/19	07/09/19	EPA 8260B	
Toluene	220	0.50	"	"	"	"	"	"	
Ethylbenzene	33	0.50	"	"	"	"	"	"	
Xylenes (total)	380	1.0	"	"	"	"	"	"	E
Gasoline Range Hydrocarbons	6900	50	"	"	"	"	"	"	E

Date Sampled: **07/08/19 13:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: 1,2-Dichloroethane-d4</i>		140 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.7 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		188 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/19 13:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	11000	50	mg/kg	1	1907100	"	07/08/19	EPA 8015M	

Date Sampled: **07/08/19 13:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<i>Surrogate: o-Terphenyl</i>		141 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

E02@2
1907062-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/19 13:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1907113	07/09/19	07/09/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/19 13:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/19 13:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1907119	07/09/19	07/10/19	EPA 8015M	

Date Sampled: **07/08/19 13:22**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

E03@2
1907062-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/19 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1907099	07/08/19	07/08/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/19 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/19 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1907100	"	07/08/19	EPA 8015M	

Date Sampled: **07/08/19 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

N03@2
1907062-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/19 14:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.015	0.0020	mg/kg	1	1907113	07/09/19	07/09/19	EPA 8260B	
Toluene	0.028	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.019	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/19 14:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		93.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.3 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/19 14:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1907119	07/09/19	07/10/19	EPA 8015M	

Date Sampled: **07/08/19 14:01**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1907099 - EPA 5030 Soil MS

Blank (1907099-BLK1)

Prepared: 07/08/19 Analyzed: 07/09/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		102	23-173			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		103	21-167			

LCS (1907099-BS1)

Prepared: 07/08/19 Analyzed: 07/09/19

Benzene	0.113	0.0020	mg/kg	0.150		75.1	70-130			
Toluene	0.119	0.0050	"	0.150		79.5	70-130			
Ethylbenzene	0.117	0.0050	"	0.150		77.8	70-130			
m,p-Xylene	0.225	0.010	"	0.300		75.0	70-130			
o-Xylene	0.112	0.0050	"	0.150		75.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	23-173			
Surrogate: Toluene-d8	0.0438		"	0.0400		110	20-170			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.4	21-167			

Matrix Spike (1907099-MS1)

Source: 1907062-12

Prepared: 07/08/19 Analyzed: 07/09/19

Benzene	0.126	0.0020	mg/kg	0.150	ND	83.8	70-130			
Toluene	0.131	0.0050	"	0.150	ND	87.1	70-130			
Ethylbenzene	0.130	0.0050	"	0.150	ND	86.7	70-130			
m,p-Xylene	0.252	0.010	"	0.300	ND	83.9	70-130			
o-Xylene	0.123	0.0050	"	0.150	ND	82.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0427		"	0.0400		107	23-173			
Surrogate: Toluene-d8	0.0421		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.6	21-167			

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1907099 - EPA 5030 Soil MS

Matrix Spike Dup (1907099-MSD1)

Source: 1907062-12

Prepared: 07/08/19 Analyzed: 07/09/19

Benzene	0.113	0.0020	mg/kg	0.150	ND	75.5	70-130	10.4	30	
Toluene	0.116	0.0050	"	0.150	ND	77.2	70-130	12.0	30	
Ethylbenzene	0.120	0.0050	"	0.150	ND	80.2	70-130	7.76	30	
m,p-Xylene	0.231	0.010	"	0.300	ND	76.9	70-130	8.66	30	
o-Xylene	0.115	0.0050	"	0.150	ND	76.6	70-130	7.15	30	
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		95.0	21-167			

Batch 1907113 - EPA 5030 Soil MS

Blank (1907113-BLK1)

Prepared & Analyzed: 07/09/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0384		"	0.0400		96.1	23-173			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	21-167			

LCS (1907113-BS1)

Prepared: 07/09/19 Analyzed: 07/10/19

Benzene	0.256	0.0020	mg/kg	0.225		114	70-130			
Toluene	0.260	0.0050	"	0.225		116	70-130			
Ethylbenzene	0.268	0.0050	"	0.225		119	70-130			
m,p-Xylene	0.530	0.010	"	0.450		118	70-130			
o-Xylene	0.270	0.0050	"	0.225		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.4	23-173			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.5	21-167			

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1907113 - EPA 5030 Soil MS

Matrix Spike (1907113-MS1)	Source: 1907062-01			Prepared: 07/09/19		Analyzed: 07/10/19			
Benzene	0.242	0.0020	mg/kg	0.225	ND	107	70-130		
Toluene	0.234	0.0050	"	0.225	ND	104	70-130		
Ethylbenzene	0.245	0.0050	"	0.225	ND	109	70-130		
m,p-Xylene	0.472	0.010	"	0.450	ND	105	70-130		
o-Xylene	0.253	0.0050	"	0.225	ND	113	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.0395		"	0.0400		98.8	23-173		
Surrogate: Toluene-d8	0.0390		"	0.0400		97.5	20-170		
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	21-167		
Matrix Spike Dup (1907113-MSD1)	Source: 1907062-01			Prepared: 07/09/19		Analyzed: 07/10/19			
Benzene	0.225	0.0020	mg/kg	0.225	ND	100	70-130	7.17	30
Toluene	0.222	0.0050	"	0.225	ND	98.5	70-130	5.33	30
Ethylbenzene	0.231	0.0050	"	0.225	ND	103	70-130	5.93	30
m,p-Xylene	0.441	0.010	"	0.450	ND	98.1	70-130	6.66	30
o-Xylene	0.233	0.0050	"	0.225	ND	103	70-130	8.35	30
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400		100	23-173		
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	20-170		
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	21-167		

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release

Project Number: 125.1902.01-431789

Project Manager: Maggie Graham

Reported:
07/11/19 14:24

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1907100 - EPA 3550A

Blank (1907100-BLK1)

Prepared: 07/08/19 Analyzed: 07/09/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1907100-BS1)

Prepared: 07/08/19 Analyzed: 07/09/19

C10-C28 (DRO) 456 50 mg/kg 500 91.2 70-130

Matrix Spike (1907100-MS1)

Source: 1907061-01

Prepared: 07/08/19 Analyzed: 07/09/19

C10-C28 (DRO) 986 50 mg/kg 500 647 67.8 70-130 QM-07

Matrix Spike Dup (1907100-MSD1)

Source: 1907061-01

Prepared: 07/08/19 Analyzed: 07/09/19

C10-C28 (DRO) 973 50 mg/kg 500 647 65.1 70-130 1.39 20 QM-07

Batch 1907119 - EPA 3550A

Blank (1907119-BLK1)

Prepared: 07/09/19 Analyzed: 07/10/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1907119-BS1)

Prepared: 07/09/19 Analyzed: 07/10/19

C10-C28 (DRO) 534 50 mg/kg 500 107 70-130

Matrix Spike (1907119-MS1)

Source: 1907085-01

Prepared: 07/09/19 Analyzed: 07/10/19

C10-C28 (DRO) 551 50 mg/kg 500 47.4 101 70-130

Matrix Spike Dup (1907119-MSD1)

Source: 1907085-01

Prepared: 07/09/19 Analyzed: 07/10/19

C10-C28 (DRO) 531 50 mg/kg 500 47.4 96.7 70-130 3.65 20

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release

Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/11/19 14:24

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 18, 2019

Maggie Graham

Apex Companies

176 Cole Blvd. Suite 250

Lakewood, CO 80101

RE: CPR - IONE 10HZ Spill Release

Work Order # 1907188

Enclosed are the results of analyses for samples received by Summit Scientific on 07/17/19 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release

Project Number: 125.1902.01-431789

Project Manager: Maggie Graham

Reported:
07/18/19 08:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W02@3'	1907188-01	Soil	07/17/19 11:30	07/17/19 16:25
S01@4'	1907188-02	Soil	07/17/19 11:32	07/17/19 16:25
E02@2.5'	1907188-03	Soil	07/17/19 11:38	07/17/19 16:25

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

Page 1 of 1

Sampler Name: K. W. D. T. H. 12/16/2021

Project Number: 125.1902.01-431789

www.s2scientific.com

Sample Receipt Checklist

S2 Work Order 1907188

Client: Apex/CPR Client Project ID: IONE 10HZ Spill/Release

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C)	13.8
-----------	------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On Ice
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same Day TAT
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

MP

Custodian Printed Name or Initials

Muri Premer

Signature of Custodian

7/17/19

Date/Time



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/18/19 08:36

W02@3'
1907188-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/17/19 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1907231	07/17/19	07/17/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/17/19 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		99.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/17/19 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1907230	07/17/19	07/17/19	EPA 8015M	

Date Sampled: **07/17/19 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/18/19 08:36

S01@4'
1907188-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/17/19 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1907231	07/17/19	07/17/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/17/19 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		93.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/17/19 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1907230	07/17/19	07/17/19	EPA 8015M	

Date Sampled: **07/17/19 11:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/18/19 08:36

E02@2.5'
1907188-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/17/19 11:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	143	10.7	mg/kg dry	1	1907244	07/17/19	07/17/19	EPA 6020B	
Magnesium	117	5.37	"	"	"	"	"	"	
Sodium	173	5.37	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/17/19 11:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.60	0.100	units	1	1907259	07/18/19	07/18/19	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/17/19 11:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	93.2		%	1	1907228	07/17/19	07/18/19	Calculation	
pH	6.44		pH Units	"	1907225	07/17/19	07/17/19	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/17/19 11:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.0906	0.0100	mmhos/cm	1	1907224	07/17/19	07/17/19	EPA 120.1	

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/18/19 08:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1907231 - EPA 5030 Soil MS

Blank (1907231-BLK1)

Prepared & Analyzed: 07/17/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0373		"	0.0400		93.2	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.4	21-167			

LCS (1907231-BS1)

Prepared & Analyzed: 07/17/19

Benzene	0.0827	0.0020	mg/kg	0.100		82.7	70-130			
Toluene	0.0899	0.0050	"	0.100		89.9	70-130			
Ethylbenzene	0.0927	0.0050	"	0.100		92.7	70-130			
m,p-Xylene	0.183	0.010	"	0.200		91.5	70-130			
o-Xylene	0.0886	0.0050	"	0.100		88.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	21-167			

Matrix Spike (1907231-MS1)

Source: 1907187-01

Prepared & Analyzed: 07/17/19

Benzene	0.0809	0.0020	mg/kg	0.100	ND	80.9	70-130			
Toluene	0.0888	0.0050	"	0.100	ND	88.8	70-130			
Ethylbenzene	0.0973	0.0050	"	0.100	ND	97.3	70-130			
m,p-Xylene	0.193	0.010	"	0.200	ND	96.6	70-130			
o-Xylene	0.0936	0.0050	"	0.100	ND	93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0378		"	0.0400		94.4	23-173			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.3	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release

Project Number: 125.1902.01-431789

Project Manager: Maggie Graham

Reported:
07/18/19 08:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1907231 - EPA 5030 Soil MS

Matrix Spike Dup (1907231-MSD1)	Source: 1907187-01			Prepared & Analyzed: 07/17/19						
Benzene	0.0806	0.0020	mg/kg	0.100	ND	80.6	70-130	0.297	30	
Toluene	0.0889	0.0050	"	0.100	ND	88.9	70-130	0.0338	30	
Ethylbenzene	0.0962	0.0050	"	0.100	ND	96.2	70-130	1.18	30	
m,p-Xylene	0.190	0.010	"	0.200	ND	95.2	70-130	1.45	30	
o-Xylene	0.0918	0.0050	"	0.100	ND	91.8	70-130	1.97	30	
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.5	23-173			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/18/19 08:36

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1907230 - EPA 3550A

Blank (1907230-BLK1)

Prepared & Analyzed: 07/17/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1907230-BS1)

Prepared & Analyzed: 07/17/19

C10-C28 (DRO) 488 50 mg/kg 500 97.7 70-130

Matrix Spike (1907230-MS1)

Source: 1907188-01

Prepared & Analyzed: 07/17/19

C10-C28 (DRO) 488 50 mg/kg 500 32.3 91.1 70-130

Matrix Spike Dup (1907230-MSD1)

Source: 1907188-01

Prepared & Analyzed: 07/17/19

C10-C28 (DRO) 492 50 mg/kg 500 32.3 92.0 70-130 0.897 20

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release

Project Number: 125.1902.01-431789

Project Manager: Maggie Graham

Reported:
07/18/19 08:36

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

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

Batch 1907244 - General Preparation

Blank (1907244-BLK1)

Prepared & Analyzed: 07/17/19

Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							

LCS (1907244-BS1)

Prepared & Analyzed: 07/17/19

Calcium	550	10.0	mg/kg wet	500	110	70-130				
Magnesium	550	5.00	"	500	110	70-130				
Sodium	538	5.00	"	500	108	70-130				

Duplicate (1907244-DUP1)

Source: 1907141-01

Prepared & Analyzed: 07/17/19

Calcium	162	11.8	mg/kg dry	177			8.65	20		
Magnesium	126	5.89	"	136			7.85	20		
Sodium	130	5.89	"	153			16.8	20		

Matrix Spike (1907244-MS1)

Source: 1907141-01

Prepared & Analyzed: 07/17/19

Calcium	687	11.8	mg/kg dry	589	177	86.5	70-130			
Magnesium	710	5.89	"	589	136	97.3	70-130			
Sodium	720	5.89	"	589	153	96.1	70-130			

Matrix Spike Dup (1907244-MSD1)

Source: 1907141-01

Prepared & Analyzed: 07/17/19

Calcium	723	11.8	mg/kg dry	589	177	92.6	70-130	5.08	25	
Magnesium	740	5.89	"	589	136	102	70-130	4.18	25	
Sodium	755	5.89	"	589	153	102	70-130	4.77	25	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release

Project Number: 125.1902.01-431789

Project Manager: Maggie Graham

Reported:
07/18/19 08:36

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch 1907225 - General Preparation

LCS (1907225-BS1)

Prepared & Analyzed: 07/17/19

pH	9.42		pH Units	9.23		102	95-105
----	------	--	----------	------	--	-----	--------

Duplicate (1907225-DUP1)

Source: 1907141-01

Prepared & Analyzed: 07/17/19

pH	8.34		pH Units	8.37		0.359	20
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Batch 1907228 - General Preparation

Duplicate (1907228-DUP1)

Source: 1907170-02

Prepared & Analyzed: 07/17/19

% Solids	85.1		%	84.7		0.507	20
----------	------	--	---	------	--	-------	----

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release

Project Number: 125.1902.01-431789

Project Manager: Maggie Graham

Reported:
07/18/19 08:36

Specific Conductance by EPA Method 120.1 - Quality Control

Summit Scientific

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

Batch 1907224 - General Preparation

Blank (1907224-BLK1)

Prepared & Analyzed: 07/17/19

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1907224-BS1)

Prepared & Analyzed: 07/17/19

Specific Conductance (EC) 0.744 0.0100 mmhos/cm 0.750 99.1 90-110

Duplicate (1907224-DUP1)

Source: 1907141-01

Prepared & Analyzed: 07/17/19

Specific Conductance (EC) 0.266 0.0100 mmhos/cm 0.266 0.150 20

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ Spill Release

Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/18/19 08:36

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 19, 2019

Maggie Graham

Apex Companies

176 Cole Blvd. Suite 250

Lakewood, CO 80101

RE: CPR - Ione 10 HZ Spill/Release

Work Order # 1907214

Enclosed are the results of analyses for samples received by Summit Scientific on 07/18/19 14:39. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release

Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/19/19 05:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S05@2	1907214-01	Soil	07/18/19 10:01	07/18/19 14:39

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1907214

303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Sampler Name: Sage Maher

Project Number: 125.1902.01-431789

www.s2scientific.com

Sample Receipt Checklist

S2 Work Order 1907214

Client: Apex Companies, LLC Client Project ID: Long 10 Hz Spill/Release

Shipped Via (H.D./P.U./FedEx/UPS/USPS/Other) Airbill #: _____

Matrix (check all that apply): Air Soil/Solid X Water Other: _____
(Describe)

Temp (°C)	<u>4.4</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	X			
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are samples with holding times due within 48 hours sample due within 48 hours present?	X			SAME DAY TAG
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?				
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			X	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			X	
Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Custodian Printed Name or Initials

Signature of Custodian

Date/Time

1440



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/19/19 05:30

S05@2
1907214-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/19 10:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1907270	07/18/19	07/18/19	EPA 8260B	
Toluene	0.0086	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/18/19 10:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/18/19 10:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1907250	"	07/18/19	EPA 8015M	

Date Sampled: **07/18/19 10:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/19/19 05:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1907270 - EPA 5030 Soil MS

Blank (1907270-BLK1)

Prepared & Analyzed: 07/18/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0209		"	0.0400		52.2	23-173			
Surrogate: Toluene-d8	0.0354		"	0.0400		88.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0332		"	0.0400		83.1	21-167			

LCS (1907270-BS1)

Prepared & Analyzed: 07/18/19

Benzene	0.0796	0.0020	mg/kg	0.100		79.6	70-130			
Toluene	0.0860	0.0050	"	0.100		86.0	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.210	0.010	"	0.200		105	70-130			
o-Xylene	0.0968	0.0050	"	0.100		96.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0278		"	0.0400		69.4	23-173			
Surrogate: Toluene-d8	0.0373		"	0.0400		93.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0353		"	0.0400		88.4	21-167			

Matrix Spike (1907270-MS1)

Source: 1907214-01

Prepared & Analyzed: 07/18/19

Benzene	0.0822	0.0020	mg/kg	0.100	ND	82.2	70-130			
Toluene	0.0920	0.0050	"	0.100	0.00864	83.3	70-130			
Ethylbenzene	0.115	0.0050	"	0.100	ND	115	70-130			
m,p-Xylene	0.227	0.010	"	0.200	0.00480	111	70-130			
o-Xylene	0.0998	0.0050	"	0.100	ND	99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0236		"	0.0400		59.0	23-173			
Surrogate: Toluene-d8	0.0371		"	0.0400		92.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0340		"	0.0400		84.9	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release

Project Number: 125.1902.01-431789

Project Manager: Maggie Graham

Reported:
07/19/19 05:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1907270 - EPA 5030 Soil MS

Matrix Spike Dup (1907270-MSD1)	Source: 1907214-01			Prepared & Analyzed: 07/18/19						
Benzene	0.0796	0.0020	mg/kg	0.100	ND	79.6	70-130	3.19	30	
Toluene	0.0900	0.0050	"	0.100	0.00864	81.4	70-130	2.18	30	
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130	4.83	30	
m,p-Xylene	0.216	0.010	"	0.200	0.00480	105	70-130	5.20	30	
o-Xylene	0.0978	0.0050	"	0.100	ND	97.8	70-130	2.00	30	
Surrogate: 1,2-Dichloroethane-d4	0.0258		"	0.0400		64.4	23-173			
Surrogate: Toluene-d8	0.0368		"	0.0400		92.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0348		"	0.0400		87.0	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/19/19 05:30

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1907250 - EPA 3550A

Blank (1907250-BLK1)

Prepared & Analyzed: 07/18/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1907250-BS1)

Prepared & Analyzed: 07/18/19

C10-C28 (DRO) 523 50 mg/kg 500 105 70-130

Matrix Spike (1907250-MS1)

Source: 1907214-01

Prepared & Analyzed: 07/18/19

C10-C28 (DRO) 495 50 mg/kg 500 31.2 92.7 70-130

Matrix Spike Dup (1907250-MSD1)

Source: 1907214-01

Prepared & Analyzed: 07/18/19

C10-C28 (DRO) 512 50 mg/kg 500 31.2 96.1 70-130 3.40 20

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Ione 10 HZ Spill/Release

Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/19/19 05:30

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 22, 2019

Maggie Graham

Apex Companies

176 Cole Blvd. Suite 250

Lakewood, CO 80101

RE: CPR - IONE 10HZ

Work Order # 1907228

Enclosed are the results of analyses for samples received by Summit Scientific on 07/19/19 17:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, flowing script.

Paul Shrewsbury

President



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ

Project Number: 125.1902.01-431789

Project Manager: Maggie Graham

Reported:
07/22/19 06:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03@9'	1907228-01	Soil	07/19/19 14:56	07/19/19 17:08
B04@6.5'	1907228-02	Soil	07/19/19 14:58	07/19/19 17:08

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Summit Scientific

303-277-9310 ♦ 303-374-5933 Fax

Page (of)

Sampler Name: K. Wright, N6 NW

Project Number: 125-1902.01-431789

www.s2scientific.com

Client Name CPR

Sample Receipt Checklist

S2 Work Order

1907228

Client: Apex/CPR

Client Project ID: IONE 10HZ

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply):

☐ Air

☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Temp (°C)	13.2
-----------	------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	On Ice
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same Day TAT
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

MP

Custodian Printed Name or Initials

Muri Premer

Signature of Custodian

7/19/19

Date/Time



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/22/19 06:17

B03@9'
1907228-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/19/19 14:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1907281	07/19/19	07/19/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/19/19 14:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		92.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/19/19 14:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1907282	07/19/19	07/19/19	EPA 8015M	

Date Sampled: **07/19/19 14:56**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/22/19 06:17

B04@6.5'
1907228-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/19/19 14:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1907281	07/19/19	07/19/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/19/19 14:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		53.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		88.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.7 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/19/19 14:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1907282	07/19/19	07/19/19	EPA 8015M	

Date Sampled: **07/19/19 14:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		106 %	30-150		"	"	"	"	

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/22/19 06:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1907281 - EPA 5030 Soil MS

Blank (1907281-BLK1)

Prepared & Analyzed: 07/19/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.6	23-173			
Surrogate: Toluene-d8	0.0385		"	0.0400		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.2	21-167			

LCS (1907281-BS1)

Prepared & Analyzed: 07/19/19

Benzene	0.0802	0.0020	mg/kg	0.100		80.2	70-130			
Toluene	0.0910	0.0050	"	0.100		91.0	70-130			
Ethylbenzene	0.0971	0.0050	"	0.100		97.1	70-130			
m,p-Xylene	0.199	0.010	"	0.200		99.5	70-130			
o-Xylene	0.0939	0.0050	"	0.100		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0380		"	0.0400		95.1	23-173			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	21-167			

Matrix Spike (1907281-MS1)

Source: 1907228-01

Prepared & Analyzed: 07/19/19

Benzene	0.0797	0.0020	mg/kg	0.100	ND	79.7	70-130			
Toluene	0.0903	0.0050	"	0.100	ND	90.3	70-130			
Ethylbenzene	0.0975	0.0050	"	0.100	ND	97.5	70-130			
m,p-Xylene	0.200	0.010	"	0.200	0.00492	97.3	70-130			
o-Xylene	0.0949	0.0050	"	0.100	ND	94.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.7	23-173			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.1	21-167			

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/22/19 06:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1907281 - EPA 5030 Soil MS

Matrix Spike Dup (1907281-MSD1)		Source: 1907228-01			Prepared & Analyzed: 07/19/19					
Benzene	0.0804	0.0020	mg/kg	0.100	ND	80.4	70-130	0.787	30	
Toluene	0.0883	0.0050	"	0.100	ND	88.3	70-130	2.32	30	
Ethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	14.4	30	
m,p-Xylene	0.227	0.010	"	0.200	0.00492	111	70-130	12.8	30	
o-Xylene	0.102	0.0050	"	0.100	ND	102	70-130	7.05	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0236		"	0.0400		59.0	23-173			
Surrogate: Toluene-d8	0.0370		"	0.0400		92.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0340		"	0.0400		85.0	21-167			

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - IONE 10HZ
Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/22/19 06:17

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1907282 - EPA 3550A

Blank (1907282-BLK1)

Prepared & Analyzed: 07/19/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1907282-BS1)

Prepared & Analyzed: 07/19/19

C10-C28 (DRO) 478 50 mg/kg 500 95.5 70-130

Matrix Spike (1907282-MS1)

Source: 1907228-01

Prepared & Analyzed: 07/19/19

C10-C28 (DRO) 500 50 mg/kg 500 31.3 93.8 70-130

Matrix Spike Dup (1907282-MSD1)

Source: 1907228-01

Prepared & Analyzed: 07/19/19

C10-C28 (DRO) 506 50 mg/kg 500 31.3 95.0 70-130 1.17 20

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
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Project: CPR - IONE 10HZ

Project Number: 125.1902.01-431789
Project Manager: Maggie Graham

Reported:
07/22/19 06:17

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference