



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

### Certificate of Analysis

*Final Report*

Laboratory Order ID 18D0764

Client Name: APEX Companies, LLC. -Manassas  
9700 Capital Court #100  
Manassas, VA 20110

Date Received: April 24, 2018 13:38

Date Issued: May 8, 2018 16:35

Project Number: 2500732-001

Submitted To: William Thomas

Purchase Order:

Client Site I.D.: Park Ridge ES

Enclosed are the results of analyses for samples received by the laboratory on 04/24/2018 13:38. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars  
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.

This report shall not be reproduced except in full without the expressed and written approval of an authorized representative of Air Water & Soil Laboratories, Inc.





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## Certificate of Analysis

### Final Report

Client Name:	APEX Companies, LLC. -Manassas 9700 Capital Court #100 Manassas VA, 20110	Date Issued:	5/8/2018 16:35
Submitted To:	William Thomas	Project Number:	2500732-001
Client Site I.D.:	Park Ridge ES	Purchase Order:	

#### ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 18D0764

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PRE2-BS-HI-FBM	18D0764-01	Drinking Water	04/21/2018 09:10	04/24/2018 13:38
PRE2-BS-KT	18D0764-02	Drinking Water	04/21/2018 09:12	04/24/2018 13:38
PRE2-BS-RM 34	18D0764-03	Drinking Water	04/21/2018 09:14	04/24/2018 13:38
PRE2-BS-H3-BM	18D0764-04	Drinking Water	04/21/2018 09:15	04/24/2018 13:38
PRE2-BS-HW3-BW	18D0764-05	Drinking Water	04/21/2018 09:17	04/24/2018 13:38
PRE2-JS-H4JC	18D0764-06	Drinking Water	04/21/2018 09:18	04/24/2018 13:38
PRE2-BS-RM 22	18D0764-07	Drinking Water	04/21/2018 09:23	04/24/2018 13:38
PRE2-JS-H2JC	18D0764-08	Drinking Water	04/21/2018 09:25	04/24/2018 13:38
FIELD BLANK-PRE2	18D0764-09	Drinking Water	04/21/2018 09:27	04/24/2018 13:38



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Client Name:	APEX Companies, LLC. -Manassas 9700 Capital Court #100 Manassas VA, 20110	Date Issued:	5/8/2018 16:35
Submitted To:	William Thomas	Project Number:	2500732-001
Client Site I.D.:	Park Ridge ES	Purchase Order:	

**Laboratory Order ID: 18D0764**

**Analytical Results**

<b>Sample I.D.</b> PRE2-BS-HI-FBM	<b>Laboratory Sample ID:</b> 18D0764-01
<b>Grab Date/Time:</b> 04/21/2018 09:10	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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**Metals (Total) by EPA 200 Series Methods**

Lead	01	EPA200.8 R5.4	13.3 ug/L	1.00	1	05/04/18 17:00	05/07/18 15:48	RJW
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Submitted To:	William Thomas	Project Number:	2500732-001
Client Site I.D.:	Park Ridge ES	Purchase Order:	

**Laboratory Order ID: 18D0764**

**Analytical Results**

<b>Sample I.D.</b> PRE2-BS-KT	<b>Laboratory Sample ID:</b> 18D0764-02
<b>Grab Date/Time:</b> 04/21/2018 09:12	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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**Metals (Total) by EPA 200 Series Methods**

Lead	02	EPA200.8 R5.4	5.77 ug/L	1.00	1	05/04/18 17:00	05/07/18 16:01	R JW
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Client Site I.D.:	Park Ridge ES	Purchase Order:	

**Laboratory Order ID: 18D0764**

**Analytical Results**

<b>Sample I.D.</b> PRE2-BS-RM 34	<b>Laboratory Sample ID:</b> 18D0764-03
<b>Grab Date/Time:</b> 04/21/2018 09:14	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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**Metals (Total) by EPA 200 Series Methods**

Lead	03	EPA200.8 R5.4	17.3 ug/L	1.00	1	05/04/18 17:00	05/07/18 16:15	RJW
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Submitted To:	William Thomas	Project Number:	2500732-001
Client Site I.D.:	Park Ridge ES	Purchase Order:	

**Laboratory Order ID: 18D0764**

**Analytical Results**

<b>Sample I.D.</b> PRE2-BS-H3-BM	<b>Laboratory Sample ID:</b> 18D0764-04
<b>Grab Date/Time:</b> 04/21/2018 09:15	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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**Metals (Total) by EPA 200 Series Methods**

Lead	04	EPA200.8 R5.4	17.9 ug/L	1.00	1	05/04/18 17:00	05/07/18 16:34	RJW
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Client Site I.D.:	Park Ridge ES	Purchase Order:	

**Laboratory Order ID: 18D0764**

**Analytical Results**

<b>Sample I.D.</b> PRE2-BS-HW3-BW	<b>Laboratory Sample ID:</b> 18D0764-05
<b>Grab Date/Time:</b> 04/21/2018 09:17	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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**Metals (Total) by EPA 200 Series Methods**

Lead	05	EPA200.8 R5.4	10.9 ug/L	1.00	1	05/04/18 17:00	05/07/18 16:38	R JW
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Submitted To:	William Thomas	Project Number:	2500732-001
Client Site I.D.:	Park Ridge ES	Purchase Order:	

**Laboratory Order ID: 18D0764**

**Analytical Results**

<b>Sample I.D.</b> PRE2-JS-H4JC	<b>Laboratory Sample ID:</b> 18D0764-06
<b>Grab Date/Time:</b> 04/21/2018 09:18	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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**Metals (Total) by EPA 200 Series Methods**

Lead	06	EPA200.8 R5.4	22.6 ug/L	1.00	1	05/04/18 17:00	05/07/18 16:43	RJW
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Submitted To:	William Thomas	Project Number:	2500732-001
Client Site I.D.:	Park Ridge ES	Purchase Order:	

**Laboratory Order ID: 18D0764**

**Analytical Results**

<b>Sample I.D.</b> PRE2-BS-RM 22	<b>Laboratory Sample ID:</b> 18D0764-07
<b>Grab Date/Time:</b> 04/21/2018 09:23	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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**Metals (Total) by EPA 200 Series Methods**

Lead	07	EPA200.8 R5.4	11.9 ug/L	1.00	1	05/04/18 17:00	05/07/18 16:48	R JW
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Submitted To:	William Thomas	Project Number:	2500732-001
Client Site I.D.:	Park Ridge ES	Purchase Order:	

**Laboratory Order ID: 18D0764**

**Analytical Results**

<b>Sample I.D.</b> PRE2-JS-H2JC	<b>Laboratory Sample ID:</b> 18D0764-08
<b>Grab Date/Time:</b> 04/21/2018 09:25	

Parameter	Samp ID	Method	Result	Reporting Qual	Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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**Metals (Total) by EPA 200 Series Methods**

Lead	08	EPA200.8 R5.4	28.4 ug/L	1.00	1	05/04/18 17:00	05/07/18 16:52	RJW
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Submitted To: William Thomas	Project Number: 2500732-001
Client Site I.D.: Park Ridge ES	Purchase Order:

**Laboratory Order ID: 18D0764**

**Analytical Results**

Sample I.D. FIELD BLANK-PRE2	Laboratory Sample ID: 18D0764-09
Grab Date/Time: 04/21/2018 09:27	

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
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**Metals (Total) by EPA 200 Series Methods**

Lead	09	EPA200.8 R5.4	<1.00 ug/L	1.00	1	05/04/18 17:00	05/07/18 16:57	RJW
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### Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
<b>Metals (Total) by EPA 200 Series Methods</b>		<b>Preparation Method: EPA200.8 R5.4</b>			
18D0764-01	50.0 mL / 50.0 mL	EPA200.8 R5.4	BBE0175	SBE0204	AE80030
18D0764-02	50.0 mL / 50.0 mL	EPA200.8 R5.4	BBE0175	SBE0204	AE80030
18D0764-03	50.0 mL / 50.0 mL	EPA200.8 R5.4	BBE0175	SBE0204	AE80030
18D0764-04	50.0 mL / 50.0 mL	EPA200.8 R5.4	BBE0175	SBE0204	AE80030
18D0764-05	50.0 mL / 50.0 mL	EPA200.8 R5.4	BBE0175	SBE0204	AE80030
18D0764-06	50.0 mL / 50.0 mL	EPA200.8 R5.4	BBE0175	SBE0204	AE80030
18D0764-07	50.0 mL / 50.0 mL	EPA200.8 R5.4	BBE0175	SBE0204	AE80030
18D0764-08	50.0 mL / 50.0 mL	EPA200.8 R5.4	BBE0175	SBE0204	AE80030
18D0764-09	50.0 mL / 50.0 mL	EPA200.8 R5.4	BBE0175	SBE0204	AE80030



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### Metals (Total) by EPA 200 Series Methods - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qual
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**Batch BBE0175 - EPA200.8 R5.4**

<b>Blank (BBE0175-BLK1)</b>				Prepared: 05/04/2018 Analyzed: 05/07/2018						
Lead	<1.00 ug/L	1.00	ug/L							
<b>LCS (BBE0175-BS1)</b>				Prepared: 05/04/2018 Analyzed: 05/07/2018						
Lead	42.1 ug/L	1.00	ug/L	50.0	ug/L	84.2	85-115			L
<b>LCS Dup (BBE0175-BSD1)</b>				Prepared: 05/04/2018 Analyzed: 05/07/2018						
Lead	42.8 ug/L	1.00	ug/L	50.0	ug/L	85.5	85-115	1.53	20	
<b>Matrix Spike (BBE0175-MS1)</b>				<b>Source: 18D0764-01</b>			Prepared: 05/04/2018 Analyzed: 05/07/2018			
Lead	51.6 ug/L	1.00	ug/L	50.0	13.3 ug/L	76.5	70-130			
<b>Matrix Spike (BBE0175-MS2)</b>				<b>Source: 18D0764-02</b>			Prepared: 05/04/2018 Analyzed: 05/07/2018			
Lead	48.0 ug/L	1.00	ug/L	50.0	5.77 ug/L	84.5	70-130			
<b>Matrix Spike Dup (BBE0175-MSD1)</b>				<b>Source: 18D0764-01</b>			Prepared: 05/04/2018 Analyzed: 05/07/2018			
Lead	45.0 ug/L	1.00	ug/L	50.0	13.3 ug/L	63.4	70-130	13.5	20	M
<b>Matrix Spike Dup (BBE0175-MSD2)</b>				<b>Source: 18D0764-02</b>			Prepared: 05/04/2018 Analyzed: 05/07/2018			
Lead	46.5 ug/L	1.00	ug/L	50.0	5.77 ug/L	81.5	70-130	3.18	20	



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Submitted To:	William Thomas	Project Number:	2500732-001
Client Site I.D.:	Park Ridge ES	Purchase Order:	

### Certified Analyses included in this Report

Analyte	Certifications		
<i>EPA200.8 R5.4 in Potable Water</i>			
Lead	VELAP		
Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2018
NC	North Carolina DENR	495	12/31/2018
VELAP	NELAC-Virginia Certificate #9551	460021	06/14/2018
WVDEP	West Virginia DEP	350	11/30/2018



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### Summary of Data Qualifiers

- L LCS recovery is outside of established acceptance limits
- M Matrix spike recovery is outside established acceptance limits
- 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  
Form #: F1331  
Rev. 2.0  
Effective: Jun 28, 2016

### CHAIN OF CUSTODY

PAGE 1 OF 1

COMPANY NAME: <u>Apex Companies, LLC</u>	INVOICE TO: <u>SAUE</u>	PROJECT NAME/Quote #: <u>SCPS 4/DW</u>
CONTACT: <u>William Thomas</u>	INVOICE CONTACT:	SITE NAME: <u>Park Ridge Es</u>
ADDRESS: <u>9700 Capital of Suite 100 Manassas, VA</u>	INVOICE ADDRESS: <u>↓</u>	PROJECT NUMBER: <u>2500732-001</u>
PHONE #: <u>703-396-6730</u> <u>2018</u>	INVOICE PHONE #:	P.O. #:
FAX #: <u>703-396-6730</u>	EMAIL: <u>WThomas@apexcos.com</u>	Pretreatment Program:

Is sample for compliance reporting? YES  NO  Is sample from a chlorinated supply? YES  NO  PWS I.D. #:

SAMPLER NAME (PRINT): Kim Mervine SAMPLER SIGNATURE: [Signature] Turn Around Time: Circle 10 5 Days or    Day(s)

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

CLIENT SAMPLE I.D.	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 / (PRESERVATIVE)						COMMENTS
1) <u>PRE2-BS-H1-FBM</u>	X					<u>4-24-18</u>	<u>0910 →</u>		<u>DW</u>	<u>1</u>	<u>X</u>						<small>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</small>  PLEASE NOTE PRESERVATIVE(S), INTERFERENCE CHECKS or PUMP RATE (L/min)
2) <u>PRE2-BS-KT</u>	X						<u>0912 →</u>			<u>1</u>	<u>X</u>						
3) <u>PRE2-BS-RM34</u>	X						<u>0914 →</u>			<u>1</u>	<u>X</u>						
4) <u>PRE2-BS-H3-BM</u>	X						<u>0915 →</u>			<u>1</u>	<u>X</u>						
5) <u>PRE2-BS-HW3-BW</u>	X						<u>0917 →</u>			<u>1</u>	<u>X</u>						
6) <u>PRE2-JS-H4JE</u>	X						<u>0918 →</u>			<u>1</u>	<u>X</u>						
7) <u>PRE2-BS-RM22</u>	X						<u>0923 →</u>			<u>1</u>	<u>X</u>						
8) <u>PRE2-JS-H2JC</u>	X						<u>0925 →</u>			<u>1</u>	<u>X</u>					<u>Scaled</u>	
9) <u>Field Blank - PRE2</u>	X						<u>0927</u>			<u>1</u>	<u>X</u>					<u>no ice</u>	
10)																	

RELINQUISHED: <u>[Signature]</u>	DATE / TIME: <u>4-24-18 10:52</u>	RECEIVED: <u>[Signature]</u>	DATE / TIME: <u>4-24-18 10:52</u>	QC Data Package Level III <input type="checkbox"/>	LAB USE ONLY	COOLER TEMP <u>22.1</u> °C
RELINQUISHED: <u>[Signature]</u>	DATE / TIME: <u>4-24-18 1:38</u>	RECEIVED: <u>[Signature]</u>	DATE / TIME: <u>4/24/18 1:38</u>	QC Data Package Level IV <input type="checkbox"/>	<b>APEX-Manassas 18D0764</b>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:		<b>SCPS - Park Ridge Elementary Sch</b>	
					<b>Recd: 04/24/2018 Due: 05/08/2018</b>	

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18D0764

Metals containers were received with pH =6.5. HNO<sub>3</sub> was added by SNL at 1500 on 24 APRIL 2018 to bring the pH <2.

Sample Preservation Log

Sample Preservation Log  
Form #: F1301  
Rev # 8.0  
Effective: Mar 30, 2018  
Page 1 of 1

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

Date Performed: 24 April 18

Analyst Performing Check: DL

Sample ID	Container ID	Metals		Cyanide		Sulfide		Ammonia		TKN		Phos, Tot		NO <sub>3</sub> +NO <sub>2</sub>		DRO		Pesticide (8081/608/508)		SVOC (525.2/8270/625)		CrVI*		Pest/PCB (508) / SVOC(525)		pH as Received		Final pH (if adjust)	
		pH as Received	Final pH (if adjust)	pH as Received	Final pH (if adjust)	pH as Received	Final pH (if adjust)	pH as Received	Final pH (if adjust)	pH as Received	Final pH (if adjust)	pH as Received	Final pH (if adjust)	pH as Received	Final pH (if adjust)	pH as Received	Final pH (if adjust)	Res.Cl as Received	Res.Cl P/A (if adjust)	Res.Cl as Received	Res.Cl P/A (if adjust)	pH as Received	Adjusted final pH	pH as Received	Final pH (if adjust)	Other			
		< 2	Other	> 12	Other	> 9	Other	< 2	Other	< 2	Other	< 2	Other	< 2	Other	< 2	Other	Present	Absent	Present	Absent	< 2	Other	< 2	Other	Other			
01	A	10	4.2																										
02	A	10	4.2																										
03	A	10	4.2																										
04	A	10	4.2																										
05	A	10	4.2																										
06	A	10	4.2																										
07	A	10	4.2																										
08	A	10	4.2																										
09	A	5	4.2																										

NaOH ID: \_\_\_\_\_ HNO<sub>3</sub> ID: \_\_\_\_\_  
 H<sub>2</sub>SO<sub>4</sub> ID: \_\_\_\_\_ Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> ID: \_\_\_\_\_  
 HCL ID: 7601031 Na<sub>2</sub>SO<sub>3</sub> ID: \_\_\_\_\_

CrVI preserved date/time: \_\_\_\_\_ Analyst Initials: \_\_\_\_\_  
 \* pH must be adjusted between 9.3 - 9.7  
 Buffer Sol'n ID: \_\_\_\_\_  
 1N NaOH ID: \_\_\_\_\_ 5N NaOH: \_\_\_\_\_





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Submitted To:	William Thomas	Project Number:	2500732-001
Client Site I.D.:	Park Ridge ES	Purchase Order:	

## Sample Conditions Checklist

Samples Received at:	22.10°C
How were samples received?	Courier
Were Custody Seals used? If so, were they received intact?	Yes
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? (above freezing to 6°C) or received on ice and recently taken?	No
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?	No
Are all volatile organic and TOX containers free of headspace?	NA
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.	NA
Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

### Work Order Comments