



Melissa Howard  
Anterra  
918 Mission Rock Road, Suite C-1  
Santa Paula, CA 93060

17 February 2016

RE: Anterra

Work Order: 1600181

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 08-Jan-16 13:00 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Ankita". The signature is written in a cursive style with a loop at the end.

Ankita Kashyap

Project Manager



Oilfield Environmental and Compliance, INC.

Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	<b>Reported:</b> 17-Feb-16 12:13
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Tank Bottoms	1600181-01	Produced Water	08-Jan-16 08:45	08-Jan-16 13:00
Produced Water	1600181-02	Produced Water	08-Jan-16 09:15	08-Jan-16 13:00



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**Tank Bottoms**  
**1600181-01 (Produced Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**ACZ**

**M200.8 ICP-MS**

Uranium, total	0.0011	0.003	mg/L	5	WG397555	20-Jan-16	22-Jan-16	M200.8 ICP-MS	B
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**M900.0**

Gross Alpha	6.3	6.1	pCi/L	1	WG397961		29-Jan-16	M900.0	M2
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**M903.1**

Radium 226	1.7	0.64	pCi/L	1	WG397994	"	01-Feb-16	M903.1	D1
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**M904.0**

Radium 228	2	13	pCi/L	1	WG398611	"	15-Feb-16	M904.0	D1
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**Oilfield Environmental and Compliance**

**Wet Chemistry by EPA or APHA Standard Methods**

Total Alkalinity, CaCO3	96	10	mg/L	1	B6A0294	13-Jan-16	13-Jan-16	SM 2320B	
Bicarbonate, CaCO3	96	10	"	"	"	"	"	"	
Carbonate, CaCO3	ND	10	"	"	"	"	"	"	
Hydroxide, CaCO3	ND	10	"	"	"	"	"	"	
Specific Conductance (EC) @ 25 C	6500	2.0	umhos/cm	"	B6A0187	10-Jan-16	10-Jan-16	2510 B	
Total Dissolved Solids	8100	10	mg/L	"	B6A0436	19-Jan-16	19-Jan-16	2540C	HT-06

**Anions by EPA Method 300.0**

Bromide	12	0.80	mg/L	2	B6A0172	08-Jan-16	08-Jan-16	EPA 300.0	
Chloride	2800	200	"	500	"	"	08-Jan-16	"	
Nitrate as N	2.1	0.80	"	2	"	"	08-Jan-16	"	
Sulfate	74	8.0	"	20	"	"	11-Jan-16	"	

Oilfield Environmental and Compliance

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**Tank Bottoms**  
**1600181-01 (Produced Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	0.050	mg/L	1	B6A0447	19-Jan-16	21-Jan-16	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
<b>Barium</b>	<b>1.6</b>	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
<b>Boron</b>	<b>4.1</b>	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
<b>Calcium</b>	<b>730</b>	0.20	"	"	"	"	"	"	
Chromium	ND	0.010	"	"	"	"	"	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
<b>Copper</b>	<b>0.035</b>	0.020	"	"	"	"	"	"	
<b>Lead</b>	<b>0.019</b>	0.010	"	"	"	"	"	"	
<b>Lithium</b>	<b>0.20</b>	0.025	"	"	"	"	"	"	
<b>Magnesium</b>	<b>8.9</b>	0.050	"	"	"	"	"	"	
<b>Molybdenum</b>	<b>0.0055</b>	0.0050	"	"	"	"	"	"	
Nickel	ND	0.0050	"	"	"	"	"	"	
<b>Potassium</b>	<b>44</b>	1.0	"	"	"	"	"	"	
Selenium	ND	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
<b>Sodium</b>	<b>860</b>	5.0	"	5	"	"	21-Jan-16	"	
<b>Strontium</b>	<b>12</b>	0.010	"	1	"	"	21-Jan-16	"	
Thallium	ND	0.020	"	"	"	"	"	"	
Vanadium	ND	0.050	"	"	"	"	"	"	
<b>Zinc</b>	<b>0.66</b>	0.050	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B6A0204	11-Jan-16	11-Jan-16	EPA 7470A	



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**Tank Bottoms**  
**1600181-01 (Produced Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**TEPH by GC FID**

<b>TPH Oil Crude (C8-C40)</b>	<b>150</b>	1.0	mg/L	10	B6A0295	13-Jan-16	14-Jan-16	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		84.9 %	40-156		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

<b>Benzene</b>	<b>67</b>	2.5	ug/L	5	B6A0269	13-Jan-16	13-Jan-16	EPA 8260B	
<b>Ethylbenzene</b>	<b>3.1</b>	2.5	"	"	"	"	"	"	
<b>Toluene</b>	<b>47</b>	2.5	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>35</b>	2.5	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		103 %	83-131		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	78-134		"	"	"	"	

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring**

**R-05**

Acenaphthene	ND	0.51	ug/L	5	B6A0326	13-Jan-16	14-Jan-16	EPA 8270M SIM	
Acenaphthylene	ND	0.51	"	"	"	"	"	"	
Anthracene	ND	0.51	"	"	"	"	"	"	
Benz (a) anthracene	ND	0.51	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.51	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.51	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.51	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.51	"	"	"	"	"	"	
Chrysene	ND	0.51	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.51	"	"	"	"	"	"	
Fluoranthene	ND	0.51	"	"	"	"	"	"	
Fluorene	ND	0.51	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.51	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>7.3</b>	0.51	"	"	"	"	"	"	
<b>Phenanthrene</b>	<b>3.1</b>	0.51	"	"	"	"	"	"	
Pyrene	ND	0.51	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		75.0 %	23-169		"	"	"	"	

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**Produced Water**  
**1600181-02 (Produced Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**ACZ**

**M200.8 ICP-MS**

Uranium, total	ND	0.003	mg/L	5	WG397650	20-Jan-16	25-Jan-16	M200.8 ICP-MS	U, D1
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**M900.0**

Gross Alpha	15	91	pCi/L	1	WG397961		29-Jan-16	M900.0	M2
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**M903.1**

Radium 226	19	1.3	pCi/L	1	WG397994	"	01-Feb-16	M903.1	D1
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**M904.0**

Radium 228	46	17	pCi/L	1	WG398611	"	15-Feb-16	M904.0	D1
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**Oilfield Environmental and Compliance**

**Wet Chemistry by EPA or APHA Standard Methods**

Total Alkalinity, CaCO3	23	10	mg/L	1	B6A0303	13-Jan-16	13-Jan-16	SM 2320B	
Bicarbonate, CaCO3	23	10	"	"	"	"	"	"	
Carbonate, CaCO3	ND	10	"	"	"	"	"	"	
Hydroxide, CaCO3	ND	10	"	"	"	"	"	"	
Specific Conductance (EC) @ 25 C	31000	2.0	umhos/cm	"	B6A0449	19-Jan-16	19-Jan-16	2510 B	
Total Dissolved Solids	44000	50	mg/L	5	B6A0436	19-Jan-16	19-Jan-16	2540C	HT-06

**Anions by EPA Method 300.0**

Bromide	48	20	mg/L	50	B6A0172	08-Jan-16	08-Jan-16	EPA 300.0	
Chloride	16000	800	"	2000	"	"	08-Jan-16	"	
Nitrate as N	ND	20	"	50	"	"	08-Jan-16	"	R-06
Sulfate	ND	20	"	"	"	"	"	"	R-06

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**Produced Water**  
**1600181-02 (Produced Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**Total Metals by EPA 6000/7000 Series Methods**

Antimony	ND	0.050	mg/L	1	B6A0447	19-Jan-16	21-Jan-16	EPA 6010B	
Arsenic	ND	0.020	"	"	"	"	"	"	
<b>Barium</b>	<b>2.1</b>	0.020	"	"	"	"	"	"	
Beryllium	ND	0.010	"	"	"	"	"	"	
<b>Boron</b>	<b>17</b>	0.10	"	"	"	"	"	"	
Cadmium	ND	0.0050	"	"	"	"	"	"	
<b>Calcium</b>	<b>4800</b>	10	"	50	"	"	21-Jan-16	"	
Chromium	ND	0.010	"	1	"	"	21-Jan-16	"	
Cobalt	ND	0.010	"	"	"	"	"	"	
Copper	ND	0.020	"	"	"	"	"	"	
Lead	ND	0.010	"	"	"	"	"	"	
<b>Lithium</b>	<b>0.81</b>	0.025	"	"	"	"	"	"	
<b>Magnesium</b>	<b>6.6</b>	2.5	"	50	"	"	21-Jan-16	"	
<b>Magnesium</b>	<b>6.2</b>	0.050	"	1	"	"	21-Jan-16	"	
Molybdenum	ND	0.0050	"	"	"	"	"	"	
Nickel	ND	0.0050	"	"	"	"	"	"	
<b>Potassium</b>	<b>270</b>	1.0	"	"	"	"	"	"	
<b>Selenium</b>	<b>0.080</b>	0.050	"	"	"	"	"	"	
Silver	ND	0.010	"	"	"	"	"	"	
<b>Strontium</b>	<b>72</b>	0.50	"	50	"	"	21-Jan-16	"	
<b>Thallium</b>	<b>0.061</b>	0.020	"	1	"	"	21-Jan-16	"	
Vanadium	ND	0.050	"	"	"	"	"	"	
Zinc	ND	0.050	"	"	"	"	"	"	
Mercury	ND	0.00020	"	"	B6A0204	11-Jan-16	11-Jan-16	EPA 7470A	



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**Produced Water**  
**1600181-02 (Produced Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Oilfield Environmental and Compliance**

**TEPH by GC FID**

<b>TPH Oil Crude (C8-C40)</b>	<b>100</b>	1.0	mg/L	10	B6A0295	13-Jan-16	14-Jan-16	EPA 8015M	
<i>Surrogate: o-Terphenyl</i>		84.3 %	40-156		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

<b>Benzene</b>	<b>10000</b>	200	ug/L	400	B6A0269	13-Jan-16	13-Jan-16	EPA 8260B	
<b>Ethylbenzene</b>	<b>300</b>	50	"	100	B6A0231	12-Jan-16	12-Jan-16	"	
<b>Toluene</b>	<b>4900</b>	50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1800</b>	50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		99.8 %	83-131		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.7 %	78-134		"	"	"	"	

**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring**

**R-05**

<b>Acenaphthene</b>	<b>0.77</b>	0.51	ug/L	5	B6A0326	13-Jan-16	14-Jan-16	EPA 8270M SIM	
<b>Acenaphthylene</b>	<b>1.0</b>	0.51	"	"	"	"	"	"	
Anthracene	ND	0.51	"	"	"	"	"	"	
<b>Benz (a) anthracene</b>	<b>0.31</b>	0.10	"	1	"	"	14-Jan-16	"	
Benzo (b) fluoranthene	ND	0.10	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.10	"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.11</b>	0.10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.10	"	"	"	"	"	"	
<b>Chrysene</b>	<b>1.1</b>	0.10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.10	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.51</b>	0.51	"	5	"	"	14-Jan-16	"	
<b>Fluorene</b>	<b>7.3</b>	0.51	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.10	"	1	"	"	14-Jan-16	"	
<b>Naphthalene</b>	<b>160</b>	10	"	100	"	"	14-Jan-16	"	
<b>Phenanthrene</b>	<b>14</b>	0.51	"	5	"	"	14-Jan-16	"	
<b>Pyrene</b>	<b>0.51</b>	0.51	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>		93.8 %	23-169		"	"	"	"	

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**Wet Chemistry by EPA or APHA Standard Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0187 - SM 2510B Prep**

<b>Blank (B6A0187-BLK1)</b>			Prepared & Analyzed: 10-Jan-16							
Specific Conductance (EC) @ 25 C	ND	2.0	umhos/cm							
<b>LCS (B6A0187-BS1)</b>			Prepared & Analyzed: 10-Jan-16							
Specific Conductance (EC) @ 25 C	94600	2.0	umhos/cm	99800		94.8	75-125			
<b>LCS (B6A0187-BS2)</b>			Prepared & Analyzed: 10-Jan-16							
Specific Conductance (EC) @ 25 C	1020	2.0	umhos/cm	998		102	75-125			
<b>Duplicate (B6A0187-DUP1)</b>			<b>Source: 1600122-01</b>		Prepared & Analyzed: 10-Jan-16					
Specific Conductance (EC) @ 25 C	79.4	2.0	umhos/cm		78.2			1.52	20	

**Batch B6A0294 - EPA 2320B Alkalinity Prep**

<b>Blank (B6A0294-BLK1)</b>			Prepared & Analyzed: 13-Jan-16							
Total Alkalinity, CaCO3	ND	10	mg/L							
Bicarbonate, CaCO3	ND	10	"							
Carbonate, CaCO3	ND	10	"							
Hydroxide, CaCO3	ND	10	"							
<b>LCS (B6A0294-BS1)</b>			Prepared & Analyzed: 13-Jan-16							
Total Alkalinity, CaCO3	2410	10	mg/L	2500		96.3	80-120			
Carbonate, CaCO3	2370	10	"	2500		94.6	80-120			
<b>Duplicate (B6A0294-DUP1)</b>			<b>Source: 1600087-01</b>		Prepared & Analyzed: 13-Jan-16					
Total Alkalinity, CaCO3	72.0	10	mg/L		73.0			1.38	20	
Bicarbonate, CaCO3	72.0	10	"		73.0			1.38	20	
Carbonate, CaCO3	ND	10	"		ND				20	
Hydroxide, CaCO3	ND	10	"		ND				20	



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**Wet Chemistry by EPA or APHA Standard Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0303 - EPA 2320B Alkalinity Prep**

<b>Blank (B6A0303-BLK1)</b>			Prepared & Analyzed: 13-Jan-16							
Total Alkalinity, CaCO3	ND	10	mg/L							
Bicarbonate, CaCO3	ND	10	"							
Carbonate, CaCO3	ND	10	"							
Hydroxide, CaCO3	ND	10	"							

<b>LCS (B6A0303-BS1)</b>			Prepared & Analyzed: 13-Jan-16							
Total Alkalinity, CaCO3	450	10	mg/L	500		89.9	80-120			
Carbonate, CaCO3	432	10	"	500		86.5	80-120			

<b>Duplicate (B6A0303-DUP1)</b>			<b>Source: 1600118-02</b>		Prepared & Analyzed: 13-Jan-16					
Total Alkalinity, CaCO3	19.2	10	mg/L		21.2			9.90	20	
Bicarbonate, CaCO3	19.2	10	"		21.2			9.90	20	
Carbonate, CaCO3	ND	10	"		ND				20	
Hydroxide, CaCO3	ND	10	"		ND				20	

**Batch B6A0352 - 2540 C TDS Prep**

<b>Blank (B6A0352-BLK1)</b>			Prepared & Analyzed: 15-Jan-16							
Total Dissolved Solids	ND	10	mg/L							

<b>LCS (B6A0352-BS1)</b>			Prepared & Analyzed: 15-Jan-16							
Total Dissolved Solids	990	10	mg/L	1000		99.2	75-125			

<b>LCS Dup (B6A0352-BSD1)</b>			Prepared & Analyzed: 15-Jan-16							
Total Dissolved Solids	990	10	mg/L	1000		98.8	75-125	0.404	10	

<b>Duplicate (B6A0352-DUP1)</b>			<b>Source: 1600181-01</b>		Prepared & Analyzed: 15-Jan-16					
Total Dissolved Solids	8400	10	mg/L		7200			14.4	10	QR-04



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Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	<b>Reported:</b> 17-Feb-16 12:13
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**Wet Chemistry by EPA or APHA Standard Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0436 - 2540 C TDS Prep**

<b>Blank (B6A0436-BLK1)</b>				Prepared & Analyzed: 19-Jan-16						
Total Dissolved Solids	ND	10	mg/L							
<b>LCS (B6A0436-BS1)</b>				Prepared & Analyzed: 19-Jan-16						
Total Dissolved Solids	980	10	mg/L	1000		98.2	75-125			
<b>LCS Dup (B6A0436-BSD1)</b>				Prepared & Analyzed: 19-Jan-16						
Total Dissolved Solids	980	10	mg/L	1000		97.8	75-125	0.408	10	
<b>Duplicate (B6A0436-DUP1)</b>				<b>Source: 1600181-01RE1</b> Prepared & Analyzed: 19-Jan-16						
Total Dissolved Solids	8300	10	mg/L		8100			2.07	10	

**Batch B6A0449 - SM 2510B Prep**

<b>Blank (B6A0449-BLK1)</b>				Prepared & Analyzed: 19-Jan-16						
Specific Conductance (EC) @ 25 C	ND	2.0	umhos/cm							
<b>LCS (B6A0449-BS1)</b>				Prepared & Analyzed: 19-Jan-16						
Specific Conductance (EC) @ 25 C	92200	2.0	umhos/cm	99800		92.4	75-125			
<b>LCS (B6A0449-BS2)</b>				Prepared & Analyzed: 19-Jan-16						
Specific Conductance (EC) @ 25 C	1020	2.0	umhos/cm	998		103	75-125			
<b>Duplicate (B6A0449-DUP1)</b>				<b>Source: 1600277-01</b> Prepared & Analyzed: 19-Jan-16						
Specific Conductance (EC) @ 25 C	5270	2.0	umhos/cm		5230			0.762	20	



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**Anions by EPA Method 300.0 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0172 - EPA 300.0/300.1 Anions Prep**

**Blank (B6A0172-BLK1)** Prepared & Analyzed: 08-Jan-16

Bromide	ND	0.40	mg/L							
Chloride	ND	0.40	"							
Nitrate as N	ND	0.40	"							
Sulfate	ND	0.40	"							

**LCS (B6A0172-BS1)** Prepared & Analyzed: 08-Jan-16

Bromide	4.91	0.40	mg/L	5.00		98.2	90-110			
Chloride	4.89	0.40	"	5.00		97.8	90-110			
Nitrate as N	4.71	0.40	"	5.00		94.3	90-110			
Sulfate	4.93	0.40	"	5.00		98.6	90-110			

**LCS Dup (B6A0172-BSD1)** Prepared & Analyzed: 08-Jan-16

Bromide	4.82	0.40	mg/L	5.00		96.3	90-110	1.95	20	
Chloride	4.79	0.40	"	5.00		95.8	90-110	2.11	20	
Nitrate as N	4.65	0.40	"	5.00		93.0	90-110	1.39	20	
Sulfate	4.94	0.40	"	5.00		98.7	90-110	0.142	20	

**Duplicate (B6A0172-DUP1)** Source: 1600139-01 Prepared & Analyzed: 08-Jan-16

Bromide	ND	0.40	mg/L		ND					20
Nitrate as N	1.00	0.40	"		1.01			0.598		20

**Duplicate (B6A0172-DUP2)** Source: 1600139-01RE1 Prepared & Analyzed: 08-Jan-16

Chloride	21.0	4.0	mg/L		21.0			0.143		20
Sulfate	215	4.0	"		217			0.751		20

**Matrix Spike (B6A0172-MS1)** Source: 1600139-01 Prepared & Analyzed: 08-Jan-16

Bromide	4.82	0.40	mg/L	5.00	ND	96.4	80-120			
Nitrate as N	5.53	0.40	"	5.00	1.01	90.5	80-120			



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**Anions by EPA Method 300.0 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0172 - EPA 300.0/300.1 Anions Prep**

<b>Matrix Spike (B6A0172-MS2)</b>	<b>Source: 1600139-01RE1 Prepared &amp; Analyzed: 08-Jan-16</b>									
Chloride	72.5	4.2	mg/L	52.6	21.0	97.9	80-120			
Sulfate	268	4.2	"	52.6	217	98.3	80-120			



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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0204 - EPA 7470A Prep**

<b>Blank (B6A0204-BLK1)</b>				Prepared & Analyzed: 11-Jan-16						
Mercury	ND	0.00020	mg/L							
<b>LCS (B6A0204-BS1)</b>				Prepared & Analyzed: 11-Jan-16						
Mercury	0.0101	0.00020	mg/L	0.0100		101	85-115			
<b>LCS Dup (B6A0204-BSD1)</b>				Prepared & Analyzed: 11-Jan-16						
Mercury	0.0104	0.00020	mg/L	0.0100		104	85-115	2.48	20	
<b>Duplicate (B6A0204-DUP1)</b>				Source: 1600095-03RE1 Prepared & Analyzed: 11-Jan-16						
Mercury	ND	0.00020	mg/L		ND				20	
<b>Matrix Spike (B6A0204-MS1)</b>				Source: 1600095-03RE1 Prepared & Analyzed: 11-Jan-16						
Mercury	0.0102	0.00020	mg/L	0.0100	ND	102	75-125			
<b>Matrix Spike Dup (B6A0204-MSD1)</b>				Source: 1600095-03RE1 Prepared & Analyzed: 11-Jan-16						
Mercury	0.0102	0.00020	mg/L	0.0100	ND	102	75-125	0.0985	20	
<b>Post Spike (B6A0204-PS1)</b>				Source: 1600095-03RE1 Prepared & Analyzed: 11-Jan-16						
Mercury	4.97		ug/L	5.00	0.00180	99.4	85-115			

**Batch B6A0447 - EPA 3010A**

<b>Blank (B6A0447-BLK1)</b>				Prepared: 19-Jan-16 Analyzed: 21-Jan-16						
Antimony	ND	0.050	mg/L							
Arsenic	ND	0.020	"							
Barium	ND	0.020	"							
Beryllium	ND	0.010	"							
Boron	ND	0.10	"							
Cadmium	ND	0.0050	"							
Calcium	ND	0.20	"							
Chromium	ND	0.010	"							
Cobalt	ND	0.010	"							
Copper	ND	0.020	"							
Lead	ND	0.010	"							
Lithium	ND	0.025	"							
Magnesium	ND	0.050	"							
Molybdenum	ND	0.0050	"							
Nickel	ND	0.0050	"							
Potassium	ND	1.0	"							
Selenium	ND	0.050	"							
Silver	ND	0.010	"							
Sodium	ND	1.0	"							
Strontium	ND	0.010	"							

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Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	Reported: 17-Feb-16 12:13
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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0447 - EPA 3010A**

**Blank (B6A0447-BLK1)** Prepared: 19-Jan-16 Analyzed: 21-Jan-16

Thallium	ND	0.020	mg/L							
Vanadium	ND	0.050	"							
Zinc	ND	0.050	"							

**LCS (B6A0447-BS1)**

Prepared: 19-Jan-16 Analyzed: 21-Jan-16

Antimony	2.02	0.050	mg/L	2.00		101	80-120			
Arsenic	1.96	0.020	"	2.00		97.8	80-120			
Barium	1.99	0.020	"	2.00		99.6	80-120			
Beryllium	2.01	0.010	"	2.00		100	80-120			
Boron	1.96	0.10	"	2.00		97.9	80-120			
Cadmium	2.04	0.0050	"	2.00		102	80-120			
Calcium	10.2	0.20	"	10.0		102	80-120			
Chromium	2.01	0.010	"	2.00		101	80-120			
Cobalt	2.02	0.010	"	2.00		101	80-120			
Copper	2.06	0.020	"	2.00		103	80-120			
Lead	2.07	0.010	"	2.00		103	80-120			
Lithium	2.08	0.025	"	2.00		104	80-120			
Magnesium	10.3	0.050	"	10.0		103	80-120			
Molybdenum	1.98	0.0050	"	2.00		98.8	80-120			
Nickel	2.02	0.0050	"	2.00		101	80-120			
Potassium	10.0	1.0	"	10.0		100	80-120			
Selenium	1.95	0.050	"	2.00		97.6	80-120			
Silver	0.108	0.010	"	0.100		108	80-120			
Sodium	10.4	1.0	"	10.0		104	80-120			
Strontium	1.98	0.010	"	2.00		99.0	80-120			
Thallium	2.11	0.020	"	2.00		105	80-120			
Vanadium	1.98	0.050	"	2.00		98.9	80-120			
Zinc	2.02	0.050	"	2.00		101	80-120			



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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0447 - EPA 3010A**

<b>LCS Dup (B6A0447-BSD1)</b>				Prepared: 19-Jan-16 Analyzed: 21-Jan-16						
Antimony	2.06	0.050	mg/L	2.00	103	80-120	2.21	20		
Arsenic	2.03	0.020	"	2.00	102	80-120	3.86	20		
Barium	2.02	0.020	"	2.00	101	80-120	1.10	20		
Beryllium	2.03	0.010	"	2.00	102	80-120	1.09	20		
Boron	2.01	0.10	"	2.00	101	80-120	2.67	20		
Cadmium	2.08	0.0050	"	2.00	104	80-120	1.89	20		
Calcium	10.2	0.20	"	10.0	102	80-120	0.393	20		
Chromium	2.05	0.010	"	2.00	102	80-120	1.87	20		
Cobalt	2.05	0.010	"	2.00	103	80-120	1.33	20		
Copper	2.10	0.020	"	2.00	105	80-120	2.06	20		
Lead	2.10	0.010	"	2.00	105	80-120	1.68	20		
Lithium	2.10	0.025	"	2.00	105	80-120	1.20	20		
Magnesium	10.4	0.050	"	10.0	104	80-120	1.06	20		
Molybdenum	2.05	0.0050	"	2.00	103	80-120	3.78	20		
Nickel	2.05	0.0050	"	2.00	102	80-120	1.33	20		
Potassium	10.0	1.0	"	10.0	100	80-120	0.00	20		
Selenium	2.00	0.050	"	2.00	99.8	80-120	2.23	20		
Silver	0.111	0.010	"	0.100	111	80-120	2.10	20		
Sodium	10.5	1.0	"	10.0	105	80-120	1.34	20		
Strontium	1.99	0.010	"	2.00	99.7	80-120	0.755	20		
Thallium	2.14	0.020	"	2.00	107	80-120	1.69	20		
Vanadium	2.02	0.050	"	2.00	101	80-120	2.00	20		
Zinc	2.03	0.050	"	2.00	102	80-120	0.938	20		

<b>Duplicate (B6A0447-DUP1)</b>				Source: 1600181-01 Prepared: 19-Jan-16 Analyzed: 21-Jan-16						
Antimony	ND	0.050	mg/L	ND				20		
Arsenic	ND	0.020	"	ND				20		
Barium	1.70	0.020	"	1.57			7.94	20		
Beryllium	ND	0.010	"	ND				20		
Boron	4.38	0.10	"	4.11			6.43	20		
Cadmium	ND	0.0050	"	ND				20		
Calcium	763	0.20	"	730			4.40	20		
Chromium	0.00960	0.010	"	0.00940			2.11	20		
Cobalt	ND	0.010	"	ND				20		
Copper	0.0384	0.020	"	0.0351			8.98	20		
Lead	0.0175	0.010	"	0.0188			7.16	20		
Lithium	0.217	0.025	"	0.196			9.88	20		
Magnesium	9.34	0.050	"	8.92			4.68	20		
Molybdenum	0.00560	0.0050	"	0.00550			1.80	20		
Nickel	ND	0.0050	"	0.00360				20		
Potassium	40.8	1.0	"	43.6			6.63	20		

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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0447 - EPA 3010A**

<b>Duplicate (B6A0447-DUP1)</b>		<b>Source: 1600181-01</b>			<b>Prepared: 19-Jan-16 Analyzed: 21-Jan-16</b>					
Selenium	ND	0.050	mg/L		ND				20	
Silver	ND	0.010	"		ND				20	
Strontium	12.9	0.010	"		12.0			6.58	20	
Thallium	ND	0.020	"		ND				20	
Vanadium	0.0178	0.050	"		0.0143			21.8	20	QR-04
Zinc	0.697	0.050	"		0.656			6.09	20	

<b>Duplicate (B6A0447-DUP2)</b>		<b>Source: 1600181-01RE1</b>			<b>Prepared: 19-Jan-16 Analyzed: 21-Jan-16</b>					
Sodium	899	5.0	mg/L		864			3.91	20	

<b>Matrix Spike (B6A0447-MS1)</b>		<b>Source: 1600181-01</b>			<b>Prepared: 19-Jan-16 Analyzed: 21-Jan-16</b>					
Antimony	2.14	0.050	mg/L	2.00	ND	107	69-138			
Arsenic	2.22	0.020	"	2.00	ND	111	56-149			
Barium	3.89	0.020	"	2.00	1.57	116	77-132			
Beryllium	2.10	0.010	"	2.00	ND	105	85-119			
Boron	6.42	0.10	"	2.00	4.11	115	66-134			
Cadmium	2.06	0.0050	"	2.00	ND	103	86-121			
Calcium	780	0.20	"	10.0	730	491	77-131			QM-4X
Chromium	2.04	0.010	"	2.00	0.00940	101	81-128			
Cobalt	1.98	0.010	"	2.00	ND	99.0	84-119			
Copper	2.10	0.020	"	2.00	0.0351	103	83-124			
Lead	1.96	0.010	"	2.00	0.0188	96.9	80-122			
Lithium	2.89	0.025	"	2.00	0.196	135	72-141			
Magnesium	19.6	0.050	"	10.0	8.92	107	82-124			
Molybdenum	2.08	0.0050	"	2.00	0.00550	104	76-128			
Nickel	1.99	0.0050	"	2.00	0.00360	99.5	85-120			
Potassium	51.0	1.0	"	10.0	43.6	73.8	64-145			
Selenium	2.22	0.050	"	2.00	ND	111	48-164			
Silver	0.116	0.010	"	0.100	ND	116	76-130			
Strontium	15.3	0.010	"	2.00	12.0	164	57-145			QM-4X
Thallium	1.79	0.020	"	2.00	ND	89.4	63-135			
Vanadium	2.08	0.050	"	2.00	0.0143	103	86-127			
Zinc	2.74	0.050	"	2.00	0.656	104	68-141			

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**Total Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0447 - EPA 3010A**

<b>Matrix Spike (B6A0447-MS2)</b>	<b>Source: 1600181-01RE1</b>		Prepared: 19-Jan-16		Analyzed: 21-Jan-16					
Sodium	931	5.0	mg/L	10.0	864	665	75-125			QM-4X

<b>Matrix Spike Dup (B6A0447-MSD1)</b>	<b>Source: 1600181-01</b>		Prepared: 19-Jan-16		Analyzed: 21-Jan-16					
Antimony	2.34	0.050	mg/L	2.00	ND	117	69-138	9.06	20	
Arsenic	2.42	0.020	"	2.00	ND	121	56-149	8.71	20	
Barium	4.34	0.020	"	2.00	1.57	138	77-132	10.9	20	QM-07
Beryllium	2.27	0.010	"	2.00	ND	114	85-119	7.78	20	
Boron	6.87	0.10	"	2.00	4.11	138	66-134	6.82	20	QM-07
Cadmium	2.23	0.0050	"	2.00	ND	112	86-121	7.82	20	
Calcium	829	0.20	"	10.0	730	989	77-131	6.19	20	QM-4X
Chromium	2.20	0.010	"	2.00	0.00940	109	81-128	7.51	20	
Cobalt	2.14	0.010	"	2.00	ND	107	84-119	7.72	20	
Copper	2.29	0.020	"	2.00	0.0351	113	83-124	8.76	20	
Lead	2.11	0.010	"	2.00	0.0188	104	80-122	7.43	20	
Lithium	3.11	0.025	"	2.00	0.196	146	72-141	7.23	20	QM-07
Magnesium	21.2	0.050	"	10.0	8.92	123	82-124	8.04	20	
Molybdenum	2.26	0.0050	"	2.00	0.00550	113	76-128	8.53	20	
Nickel	2.15	0.0050	"	2.00	0.00360	107	85-120	7.67	20	
Potassium	55.4	1.0	"	10.0	43.6	117	64-145	8.20	20	
Selenium	2.37	0.050	"	2.00	ND	118	48-164	6.45	20	
Silver	0.129	0.010	"	0.100	ND	129	76-130	10.4	20	
Strontium	16.0	0.010	"	2.00	12.0	199	57-145	4.46	20	QM-4X
Thallium	1.95	0.020	"	2.00	ND	97.6	63-135	8.83	20	
Vanadium	2.25	0.050	"	2.00	0.0143	112	86-127	7.72	20	
Zinc	2.95	0.050	"	2.00	0.656	115	68-141	7.27	20	

<b>Matrix Spike Dup (B6A0447-MSD2)</b>	<b>Source: 1600181-01RE1</b>		Prepared: 19-Jan-16		Analyzed: 21-Jan-16					
Sodium	974	5.0	mg/L	10.0	864	NR	75-125	4.46	20	QM-4X



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**TEPH by GC FID - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0295 - EPA 3510C**

<b>Blank (B6A0295-BLK1)</b>				Prepared: 13-Jan-16 Analyzed: 14-Jan-16						
TPH Oil Crude (C8-C40)	ND	0.10	mg/L							
Surrogate: <i>o</i> -Terphenyl	0.107		"	0.100		107	40-156			
<b>LCS (B6A0295-BS1)</b>				Prepared: 13-Jan-16 Analyzed: 14-Jan-16						
TPH Oil Crude (C8-C40)	2.20	0.10	mg/L	2.00		110	54-123			
Surrogate: <i>o</i> -Terphenyl	0.109		"	0.100		109	40-156			
<b>LCS Dup (B6A0295-BSD1)</b>				Prepared: 13-Jan-16 Analyzed: 14-Jan-16						
TPH Oil Crude (C8-C40)	2.00	0.10	mg/L	2.00		99.9	54-123	9.50	20	
Surrogate: <i>o</i> -Terphenyl	0.105		"	0.100		105	40-156			



Oilfield Environmental and Compliance, INC.

Anterra  
918 Mission Rock Road, Suite C-1  
Santa Paula CA, 93060

Project: Anterra  
Project Number: Anterra Plant Water Board Testing  
Project Manager: Melissa Howard

**Reported:**  
17-Feb-16 12:13

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0231 - EPA 5030B Leachate GCMS**

<b>Blank (B6A0231-BLK1)</b>			Prepared & Analyzed: 12-Jan-16							
Benzene	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	13.0		"	12.5		104	83-131			
<i>Surrogate: Toluene-d8</i>	12.5		"	12.5		100	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.9		"	12.5		94.9	78-134			

<b>LCS (B6A0231-BS1)</b>			Prepared & Analyzed: 12-Jan-16							
Benzene	23.5	0.50	ug/L	25.0		93.9	84-120			
Toluene	24.2	0.50	"	25.0		97.0	84-125			
<i>Surrogate: Dibromofluoromethane</i>	12.8		"	12.5		102	83-131			
<i>Surrogate: Toluene-d8</i>	12.5		"	12.5		99.9	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.0		"	12.5		96.3	78-134			

<b>LCS Dup (B6A0231-BSD1)</b>			Prepared & Analyzed: 12-Jan-16							
Benzene	24.3	0.50	ug/L	25.0		97.4	84-120	3.64	20	
Toluene	24.6	0.50	"	25.0		98.4	84-125	1.39	20	
<i>Surrogate: Dibromofluoromethane</i>	12.9		"	12.5		103	83-131			
<i>Surrogate: Toluene-d8</i>	12.6		"	12.5		101	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.9		"	12.5		95.0	78-134			

<b>Duplicate (B6A0231-DUP1)</b>			Source: 1600202-01		Prepared & Analyzed: 12-Jan-16					
Benzene	240	50	ug/L		255			6.06	20	
Ethylbenzene	121	50	"		126			4.05	20	
Toluene	157	50	"		163			3.75	20	
Xylenes (total)	192	50	"		202			5.08	20	
<i>Surrogate: Dibromofluoromethane</i>	12.7		"	12.5		102	83-131			
<i>Surrogate: Toluene-d8</i>	12.7		"	12.5		101	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.0		"	12.5		95.7	78-134			



Oilfield Environmental and Compliance, INC.

Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	<b>Reported:</b> 17-Feb-16 12:13
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0269 - EPA 5030B VOCGCMS**

<b>Blank (B6A0269-BLK1)</b>			Prepared & Analyzed: 13-Jan-16							
Benzene	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
<i>Surrogate: Dibromofluoromethane</i>	12.9		"	12.5		104	83-131			
<i>Surrogate: Toluene-d8</i>	12.5		"	12.5		100	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.8		"	12.5		94.3	78-134			

<b>LCS (B6A0269-BS1)</b>			Prepared & Analyzed: 13-Jan-16							
Benzene	24.1	0.50	ug/L	25.0		96.5	84-120			
Toluene	24.6	0.50	"	25.0		98.3	84-125			
<i>Surrogate: Dibromofluoromethane</i>	12.6		"	12.5		101	83-131			
<i>Surrogate: Toluene-d8</i>	12.5		"	12.5		100	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.7		"	12.5		93.9	78-134			

<b>LCS Dup (B6A0269-BSD1)</b>			Prepared & Analyzed: 13-Jan-16							
Benzene	23.0	0.50	ug/L	25.0		92.0	84-120	4.75	20	
Toluene	23.3	0.50	"	25.0		93.2	84-125	5.26	20	
<i>Surrogate: Dibromofluoromethane</i>	12.6		"	12.5		101	83-131			
<i>Surrogate: Toluene-d8</i>	12.4		"	12.5		98.9	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.7		"	12.5		93.4	78-134			

<b>Duplicate (B6A0269-DUP1)</b>			<b>Source: 1600176-01</b>		Prepared & Analyzed: 13-Jan-16					
Benzene	ND	0.50	ug/L			ND				20
Ethylbenzene	ND	0.50	"			ND				20
Toluene	ND	0.50	"			ND				20
Xylenes (total)	ND	0.50	"			ND				20
<i>Surrogate: Dibromofluoromethane</i>	13.0		"	12.5		104	83-131			
<i>Surrogate: Toluene-d8</i>	12.5		"	12.5		100	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.9		"	12.5		95.4	78-134			



Oilfield Environmental and Compliance, INC.

Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	<b>Reported:</b> 17-Feb-16 12:13
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0269 - EPA 5030B VOCGCMS**

<b>Matrix Spike (B6A0269-MS1)</b>	<b>Source: 1600178-01RE2</b> Prepared & Analyzed: 13-Jan-16									
Benzene	4410	100	ug/L	5000	ND	88.2	82-118			
Toluene	4460	100	"	5000	ND	89.2	82-123			
Surrogate: Dibromofluoromethane	2510		"	2500		100	83-131			
Surrogate: Toluene-d8	2540		"	2500		102	78-125			
Surrogate: 4-Bromofluorobenzene	2440		"	2500		97.4	78-134			



Oilfield Environmental and Compliance, INC.

Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	Reported: 17-Feb-16 12:13
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**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0326 - EPA 3510C MS**

<b>Blank (B6A0326-BLK1)</b>				Prepared: 13-Jan-16 Analyzed: 14-Jan-16						
Acenaphthene	ND	0.10	ug/L							
Acenaphthylene	ND	0.10	"							
Anthracene	ND	0.10	"							
Benz (a) anthracene	ND	0.10	"							
Benzo (b) fluoranthene	ND	0.10	"							
Benzo (k) fluoranthene	ND	0.10	"							
Benzo (a) pyrene	ND	0.10	"							
Benzo (g,h,i) perylene	ND	0.10	"							
Chrysene	ND	0.10	"							
Dibenz (a,h) anthracene	ND	0.10	"							
Fluoranthene	ND	0.10	"							
Fluorene	ND	0.10	"							
Indeno (1,2,3-cd) pyrene	ND	0.10	"							
Naphthalene	ND	0.10	"							
Phenanthrene	ND	0.10	"							
Pyrene	ND	0.10	"							
<i>Surrogate: p-Terphenyl-d14</i>	0.840		"	0.800		105	23-169			

<b>LCS (B6A0326-BS1)</b>				Prepared: 13-Jan-16 Analyzed: 14-Jan-16						
Acenaphthene	0.770	0.10	ug/L	0.800		96.2	50-112			
Acenaphthylene	0.720	0.10	"	0.800		90.0	45-115			
Anthracene	0.720	0.10	"	0.800		90.0	37-129			
Benz (a) anthracene	0.780	0.10	"	0.800		97.5	71-128			
Benzo (b) fluoranthene	0.780	0.10	"	0.800		97.5	73-131			
Benzo (k) fluoranthene	0.850	0.10	"	0.800		106	75-142			
Benzo (a) pyrene	0.760	0.10	"	0.800		95.0	62-130			
Benzo (g,h,i) perylene	0.910	0.10	"	0.800		114	65-162			
Chrysene	0.860	0.10	"	0.800		108	83-129			
Dibenz (a,h) anthracene	0.930	0.10	"	0.800		116	67-158			
Fluoranthene	0.820	0.10	"	0.800		102	70-125			
Fluorene	0.750	0.10	"	0.800		93.8	50-114			
Indeno (1,2,3-cd) pyrene	0.930	0.10	"	0.800		116	60-162			
Naphthalene	0.680	0.10	"	0.800		85.0	41-110			
Phenanthrene	0.760	0.10	"	0.800		95.0	58-120			
Pyrene	0.820	0.10	"	0.800		102	70-126			
<i>Surrogate: p-Terphenyl-d14</i>	0.880		"	0.800		110	23-169			

Oilfield Environmental and Compliance

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.

307 Roemer Way, Suite 300, Santa Maria, CA 93454

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Oilfield Environmental and Compliance, INC.

Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	Reported: 17-Feb-16 12:13
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**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6A0326 - EPA 3510C MS**

<b>LCS Dup (B6A0326-BSD1)</b>				Prepared: 13-Jan-16 Analyzed: 14-Jan-16						
Acenaphthene	0.740	0.10	ug/L	0.800		92.5	50-112	3.97	30	
Acenaphthylene	0.680	0.10	"	0.800		85.0	45-115	5.71	30	
Anthracene	0.690	0.10	"	0.800		86.2	37-129	4.26	30	
Benz (a) anthracene	0.760	0.10	"	0.800		95.0	71-128	2.60	30	
Benzo (b) fluoranthene	0.760	0.10	"	0.800		95.0	73-131	2.60	30	
Benzo (k) fluoranthene	0.840	0.10	"	0.800		105	75-142	1.18	30	
Benzo (a) pyrene	0.730	0.10	"	0.800		91.2	62-130	4.03	30	
Benzo (g,h,i) perylene	0.870	0.10	"	0.800		109	65-162	4.49	30	
Chrysene	0.850	0.10	"	0.800		106	83-129	1.17	30	
Dibenz (a,h) anthracene	0.890	0.10	"	0.800		111	67-158	4.40	30	
Fluoranthene	0.800	0.10	"	0.800		100	70-125	2.47	30	
Fluorene	0.780	0.10	"	0.800		97.5	50-114	3.92	30	
Indeno (1,2,3-cd) pyrene	0.900	0.10	"	0.800		112	60-162	3.28	30	
Naphthalene	0.620	0.10	"	0.800		77.5	41-110	9.23	30	
Phenanthrene	0.720	0.10	"	0.800		90.0	58-120	5.41	30	
Pyrene	0.800	0.10	"	0.800		100	70-126	2.47	30	
Surrogate: p-Terphenyl-d14	0.860		"	0.800		108	23-169			





Oilfield Environmental and Compliance, INC.

Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	<b>Reported:</b> 17-Feb-16 12:13
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**M900.0 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch WG397961 - NONE**

<b>Duplicate (L28573-02DUP)</b>		<b>Source: L28573-02</b>		<b>Prepared &amp; Analyzed: 29-Jan-16</b>						
Gross Alpha	-15		pCi/L		5.6		-		2	
<b>Matrix Spike (L28573-02MS)</b>		<b>Source: L28573-02</b>		<b>Prepared &amp; Analyzed: 29-Jan-16</b>						
Gross Alpha	530		pCi/L	1111.11	5.6	47	83-133			M2
<b>Duplicate (L28683-01DUP)</b>		<b>Source: L28683-01</b>		<b>Prepared &amp; Analyzed: 29-Jan-16</b>						
Gross Alpha	120		pCi/L		140		-		2	
<b>LCS (WG397841LCSW)</b>				<b>Prepared &amp; Analyzed: 29-Jan-16</b>						
Gross Alpha	130		pCi/L	100		130	83-133			
<b>Blank (WG397841PBW)</b>				<b>Prepared &amp; Analyzed: 29-Jan-16</b>						
Gross Alpha	-0.96		pCi/L						-3.4	



Oilfield Environmental and Compliance, INC.

Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	<b>Reported:</b> 17-Feb-16 12:13
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**M903.1 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch WG397994 - NONE**

<b>Duplicate (L28481-01DUP)</b>		<b>Source: L28481-01</b>		<b>Prepared &amp; Analyzed: 01-Feb-16</b>						
Radium 226	0.13		pCi/L	0.1		-			2	
<b>Matrix Spike (L28481-01MS)</b>		<b>Source: L28481-01</b>		<b>Prepared &amp; Analyzed: 01-Feb-16</b>						
Radium 226	24		pCi/L	20	0.1	120	43-148			
<b>LCS (WG397256LCSW)</b>				<b>Prepared &amp; Analyzed: 01-Feb-16</b>						
Radium 226	11		pCi/L	20		55	43-148			
<b>Blank (WG397256PBW)</b>				<b>Prepared &amp; Analyzed: 01-Feb-16</b>						
Radium 226	0.09		pCi/L						-0.14	



Oilfield Environmental and Compliance, INC.

Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	<b>Reported:</b> 17-Feb-16 12:13
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**M904.0 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch WG398611 - NONE**

<b>Duplicate (L28481-01DUP1)</b>		<b>Source: L28481-01</b>		Prepared & Analyzed: 15-Feb-16						
Radium 228	-0.25		pCi/L		0.41		-		2	
<b>Duplicate (L28491-06DUP)</b>		<b>Source: L28491-06</b>		Prepared & Analyzed: 15-Feb-16						
Radium 228	0.25		pCi/L		-0.18		-		2	
<b>Matrix Spike (L28526-02MS)</b>		<b>Source: 1600181-02</b>		Prepared & Analyzed: 15-Feb-16						
Radium 228	230		pCi/L	358.76	46	51	47-123			
<b>LCS (WG398302LCSW)</b>				Prepared & Analyzed: 15-Feb-16						
Radium 228	11		pCi/L	17.94		61	47-123			
<b>Blank (WG398302PBW)</b>				Prepared & Analyzed: 15-Feb-16						
Radium 228	0.11		pCi/L						-0.66	



Oilfield Environmental and Compliance, INC.

Anterra 918 Mission Rock Road, Suite C-1 Santa Paula CA, 93060	Project: Anterra Project Number: Anterra Plant Water Board Testing Project Manager: Melissa Howard	<b>Reported:</b> 17-Feb-16 12:13
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### Notes and Definitions

- U The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
- R-06 The Reporting Limit has been raised to account for the presence of high levels of analytes.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QR-04 The RPD exceeded the QC control limits.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery and/or RPD values.
- M2 Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
- HT-06 Original analysis done in hold time. Re-analysis done out of hold time.
- D1 Sample required dilution due to matrix.
- B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
- 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



# Oilfield Environmental and Compliance

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101 Adkisson Way, Taft, CA 93268

Phone: (661) 762-9143

# CHAIN OF CUSTODY

Page 1 of 1

Company: Anterra

Address: 1880 E. Woolley Rd.

City/State/ZIP: Oxnard, CA, 93030

Phone: (805) 207-5490 Fax: \_\_\_\_\_ E-mail: m.howard@anterra-services.com

Report To: Melissa Howard Sampler: \_\_\_\_\_

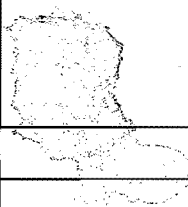
Report Format(s): FAX-  PDF (std)-  Col/LUFT EDF-  EDD-

Turnaround Time: 10 Days-  5 Days (std)-  3 Days-  2 Days-  1 Day-  ASAP-

NOTE: Samples received after 4:00PM will be considered as received the next business day

Project Name/#: Anterra Plant Water Board Testing

Site: 1880 E. Woolley Road

Analysis Requested										Special Instructions:
										See Attachment-A for Analysis Suite Details 

FDSR  
 Surface Impoundments  
 (umps) Sec. 13267.2015

DEC Sample ID	Date/Time Sampled	Matrix** (see key)	# of Cont.	Client Sample ID
<u>1600181</u>	<u>1A-M 01/08/16 0845</u>	<u>PW</u>	<u>12</u>	<u>Tank Bottoms</u>
<u>1600181</u>	<u>2AM 01/08/16 0915</u>	<u>PW</u>	<u>12</u>	<u>Produced Water</u>

Relinquished By: Clarence Reynolds Date: 01-08-16 Time: 1500

Received By: [Signature] Date: 1-8-16 Time: 1300

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Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Matrix Key\*\*:  
 A = air / vapor  
 AQ = aqueous  
 DW = drinking water  
 F = filter  
 GW = ground water  
 P = product / oil  
 PW = product water  
 S = solid / sediment  
 SW = surface water  
 WP = wipe  
 WW = waste water

Comments/PO#: OEC Ticket # 4897

CLIENT: AnterraWORK ORDER: 160081TEMPERATURE: 13.4 °C  
Acceptable Range: 0°C to 6°C [see exception notes below]

SAMPLE RECEIPT

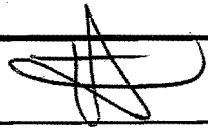
COC RECEIVED DATE/TIME: 1-8-16 @ 1300LOGIN DATE/TIME: 1-8-16 @ 1330REFRIGERATOR(S): 8, 3, AC2

SAMPLE TRANSPORT		SAMPLE RECEIPT, CONDITION, PRESERVATION		YES	NO	N/A	(**) OEC PRES. ID
<input checked="" type="checkbox"/> OEC Courier/Sampler		<input type="checkbox"/> Samples Received Outside Temperature Range [Acceptable]	COC Document(s) Received With Samples	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Delivery (Other than OEC)		<input checked="" type="checkbox"/> Direct from Field, <del>on ice</del>	Correct Container(s) for Analysis Requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> After-Hours Outside Drop-Off [Brought Inside]		<input type="checkbox"/> Ambient: Air or Filter Matrix	Container(s) Intact and in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Initials/Date/Time: _____		<input type="checkbox"/> Received Ambient, Placed on Ice for Transport	Container Label(s) Consistent with COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Shipment Carrier: _____		<input type="checkbox"/> Sample Temperature Acceptable for Analysis Requested	Proper Preservation on Sample Label(s)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tracking #: _____		<input type="checkbox"/> Samples Received Outside Temperature Range [Exception]	OEC Preservative Added **	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>CUSTODY SEALS</b> <input checked="" type="checkbox"/> None Present		<input type="checkbox"/> See Problem Chain *	VOA Containers Free of Headspace	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler(s): <input type="checkbox"/> Present, Intact <input type="checkbox"/> Present, Not Intact <input type="checkbox"/> None		<input type="checkbox"/> Insufficient Ice or Unknown Cause	Tedlar Bag(s) Free of Condensation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample(s): <input type="checkbox"/> Present, Intact <input type="checkbox"/> Present, Not Intact <input type="checkbox"/> None		<input type="checkbox"/> Expedited PM Notification [Init/Date/Time]: _____					

(\*) PROBLEM CHAIN FORM REQUIRED

CONTAINERS, COC CHANGES, AND/OR CORRECTIONS						
OEC CONTAINER ID	CONTAINER DESCRIPTION	PRESERVATIVE	CHECKS: Cl <sup>-</sup> , S <sup>-</sup> &/or pH	MATRIX	COMMENTS	INITIALS
1-2A-B	2-1L Ambers ea	-	-	W	8	
1-2C	1-1L poly ea	-	-	↓	1	
1-2D-F	3-1L poly ea	HNO3	-	W	AC2	
1-2G	1-250 mL poly ea	↓	42	↓	8	
1-2H-I	2-40 mL VOAs ea	-	-	↓	1	
1-2J-L	3-40 mL VOAs ea	HCl	-	↓	3	

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RECEIPT LOGIN BY: RECEIPT REVIEWED BY: EIAPage 2 of 2



Oilfield Environmental & Compliance, Inc.

307 Roemer Way, Suite 300, Santa Maria, Ca 93454

101 Adkisson Way, Taft, Ca 93268

Phone: 805-922-4772 / 661-762-9143

AR@oecusa.com

Date: 01/08/2016

Employee Name: Clarence Reynolds

Client Name: Anterra Oxnard

Project / Site Name: Anterra Plant Water Based Testing / 1880 E. Wexley Rd

Roundtrip Drive Time: 4

Roundtrip Drive Mileage: 210

Start Field Time: 0730

Stop Field Time: 1000

Start Field Mileage: 328231

Stop Field Mileage: 328231

Consumables: See sample receipt form

Note: 1 hour prep time

Description / Comment: Produced Water and Sludge Sampling  
2 Samples - Std. TAT (10 Day)

Admin Use:

Name:

Initials:

Date:

Total Drive Time:

Total Field Time:

Total Drive Mileage:

Total Field Mileage:

TICKET NO. 4897

# ATTACHMENT A

## Water Quality Analysis

Groundwater samples collected from wells and injection zones shall be analyzed by a laboratory certified by the Environmental Laboratory Accreditation Program, using current applicable EPA-approved analytical methods for water for the following:

- A. ✓ Total dissolved solids
- B. ✓ Metals listed in California Code of Regulations, Title 22, Section 66261.24, Subchapter 2(A)
- C. Benzene, toluene, ethylbenzene, and xylenes BTEX 3-40 mL VOAS HCl
- D. ✓ Total petroleum hydrocarbons for crude oil IL AMBER
- E. ✓ Polynuclear aromatic hydrocarbons (including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene) IL AMBER
- F. Radionuclides listed under California Code of Regulations, Title 22, Table 64442 3-1L POLY w/ HNO<sub>3</sub>
- G. ✓ Methane 2-40 mL VOAS
- H. ✓ Major and minor cations (including sodium, potassium, magnesium, and calcium) 250 mL POLY HNO<sub>3</sub>
- I. ✓ Major and minor anions (including nitrate, chloride, sulfate, alkalinity, and bromide) 1L POLY
- J. ✓ Trace elements (including lithium, strontium, boron, iron, and manganese)

## Water Quality Reporting

Water quality information shall include, at a minimum:

- A. Site plan with locations of well(s) sampled.
- B. Description of field sampling procedures.
- C. Table(s) of analytical results organized by well number (including API number).
- D. Copies of analytical laboratory reports, including quality assurance/quality control procedures and analytical test methods.