



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/08/10

Job: NGEM-TR-FL

### Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
<b>Client ID: NGEM-TRON-FL-SA-189-S2</b>				
Lab ID : PES10090820-01A	Fluoride	ND X	130 mg/L	09/08/10 10:49 09/08/10 15:57
Date Sampled 09/04/10 11:59	Chloride	1,200	500 mg/L	09/08/10 10:49 09/08/10 15:57
	Bromide	ND X	130 mg/L	09/08/10 10:49 09/08/10 15:57
	Nitrate (NO3) - N	ND *X	130 mg/L	09/08/10 10:49 09/08/10 16:15
	Phosphate, ortho - P	ND X	500 mg/L	09/08/10 10:49 09/08/10 15:57
	Sulfate (SO4)	1,300	500 mg/L	09/08/10 10:49 09/08/10 15:57
<b>Client ID: NGEM-TRON-FL-RSAM-5-S6</b>				
Lab ID : PES10090820-02A	Fluoride	ND X	25 mg/L	09/08/10 10:49 09/08/10 16:34
Date Sampled 09/04/10 12:25	Chloride	ND X	100 mg/L	09/08/10 10:49 09/08/10 16:34
	Bromide	ND X	25 mg/L	09/08/10 10:49 09/08/10 16:34
	Nitrate (NO3) - N	ND *X	25 mg/L	09/08/10 10:49 09/08/10 16:52
	Phosphate, ortho - P	ND X	100 mg/L	09/08/10 10:49 09/08/10 16:34
	Sulfate (SO4)	320	100 mg/L	09/08/10 10:49 09/08/10 16:34
<b>Client ID: NGEM-TRON-FL-RSAM-6-S5</b>				
Lab ID : PES10090820-03A	Fluoride	ND X	25 mg/L	09/08/10 10:49 09/08/10 17:11
Date Sampled 09/04/10 12:26	Chloride	ND X	100 mg/L	09/08/10 10:49 09/08/10 17:11
	Bromide	ND X	25 mg/L	09/08/10 10:49 09/08/10 17:11
	Nitrate (NO3) - N	ND *X	25 mg/L	09/08/10 10:49 09/08/10 17:29
	Phosphate, ortho - P	ND X	100 mg/L	09/08/10 10:49 09/08/10 17:11
	Sulfate (SO4)	540	100 mg/L	09/08/10 10:49 09/08/10 17:11
<b>Client ID: SA-189-S3</b>				
Lab ID : PES10090820-04A	Fluoride	ND X	25 mg/L	09/08/10 10:49 09/08/10 17:48
Date Sampled 09/05/10 11:59	Chloride	110	100 mg/L	09/08/10 10:49 09/08/10 17:48
	Bromide	ND X	25 mg/L	09/08/10 10:49 09/08/10 17:48
	Nitrate (NO3) - N	ND *X	25 mg/L	09/08/10 18:06 09/08/10 18:06
	Phosphate, ortho - P	ND X	100 mg/L	09/08/10 10:49 09/08/10 17:48
	Sulfate (SO4)	560	100 mg/L	09/08/10 10:49 09/08/10 17:48
<b>Client ID: SA-189-S4</b>				
Lab ID : PES10090820-05A	Fluoride	ND X	25 mg/L	09/08/10 10:49 09/08/10 19:20
Date Sampled 09/06/10 11:59	Chloride	ND X	100 mg/L	09/08/10 10:49 09/08/10 19:20
	Bromide	ND X	25 mg/L	09/08/10 10:49 09/08/10 19:20
	Nitrate (NO3) - N	ND *X	25 mg/L	09/08/10 10:49 09/08/10 19:39
	Phosphate, ortho - P	ND X	100 mg/L	09/08/10 10:49 09/09/10 15:53
	Sulfate (SO4)	340	100 mg/L	09/08/10 10:49 09/08/10 19:20



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Client ID: **RSAM-5-S7**

Lab ID : PES10090820-06A	Fluoride	ND	X	25 mg/L	09/08/10 10:49	09/08/10 19:57
Date Sampled 09/05/10 12:25	Chloride	ND	X	100 mg/L	09/08/10 10:49	09/08/10 19:57
	Bromide	ND	X	25 mg/L	09/08/10 10:49	09/08/10 19:57
	Nitrate (NO3) - N	ND	*X	25 mg/L	09/08/10 10:49	09/08/10 20:16
	Phosphate, ortho - P	ND	X	100 mg/L	09/08/10 10:49	09/09/10 16:12
	Sulfate (SO4)	300		100 mg/L	09/08/10 10:49	09/08/10 19:57

Client ID: **SA-189-S5**

Lab ID : PES10090820-07A	Fluoride	ND	X	25 mg/L	09/08/10 10:49	09/08/10 20:34
Date Sampled 09/07/10 11:59	Chloride	ND	X	100 mg/L	09/08/10 10:49	09/08/10 20:34
	Bromide	ND	X	25 mg/L	09/08/10 10:49	09/08/10 20:34
	Nitrate (NO3) - N	ND	X	25 mg/L	09/08/10 10:49	09/08/10 20:34
	Phosphate, ortho - P	ND	X	100 mg/L	09/08/10 10:49	09/09/10 11:21
	Sulfate (SO4)	250		100 mg/L	09/08/10 10:49	09/08/10 20:34

\*Nitrate was analyzed on a preserved sample. The accuracy of Nitrate may be biased high due to the possible oxidation of Nitrite to Nitrate.

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

*e*  
**9/15/10**

**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
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El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/08/10

Job: NGEM-TR-FL

### Perchlorate by Ion Chromatography EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-SA-189-S2</b> Lab ID: PES10090820-01A Perchlorate Date Sampled 09/04/10 11:59	17,100	2,000 µg/L	09/07/10 11:03	09/08/10
Client ID: <b>NGEM-TRON-FL-RSAM-5-S6</b> Lab ID: PES10090820-02A Perchlorate Date Sampled 09/04/10 12:25	13,900	2,000 µg/L	09/07/10 11:03	09/08/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S5</b> Lab ID: PES10090820-03A Perchlorate Date Sampled 09/04/10 12:26	1,570	200 µg/L	09/07/10 11:03	09/08/10
Client ID: <b>SA-189-S3</b> Lab ID: PES10090820-04A Perchlorate Date Sampled 09/05/10 11:59	427	200 µg/L	09/07/10 11:03	09/08/10
Client ID: <b>SA-189-S4</b> Lab ID: PES10090820-05A Perchlorate Date Sampled 09/06/10 11:59	179	20.0 µg/L	09/07/10 11:03	09/08/10
Client ID: <b>RSAM-5-S7</b> Lab ID: PES10090820-06A Perchlorate Date Sampled 09/05/10 12:25	10,300	400 µg/L	09/07/10 11:03	09/08/10
Client ID: <b>SA-189-S5</b> Lab ID: PES10090820-07A Perchlorate Date Sampled 09/07/10 11:59	59.7	10.0 µg/L	09/07/10 11:03	09/08/10

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/08/10

Job: NGEM-TR-FL

Alkalinity  
SM2320B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
<b>Client ID: NGEM-TRON-FL-SA-189-S2</b>				
Lab ID : PES10090820-01A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	61	20 mg/L	09/08/10
Date Sampled 09/04/10 11:59	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	61	20 mg/L	09/08/10
<b>Client ID: NGEM-TRON-FL-RSAM-5-S6</b>				
Lab ID : PES10090820-02A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	470	20 mg/L	09/08/10
Date Sampled 09/04/10 12:25	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	740	20 mg/L	09/08/10
<b>Client ID: NGEM-TRON-FL-RSAM-6-S5</b>				
Lab ID : PES10090820-03A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	100	20 mg/L	09/08/10
Date Sampled 09/04/10 12:26	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	100	20 mg/L	09/08/10
<b>Client ID: SA-189-S3</b>				
Lab ID : PES10090820-04A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	130	20 mg/L	09/08/10
Date Sampled 09/05/10 11:59	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	130	20 mg/L	09/08/10
<b>Client ID: SA-189-S4</b>				
Lab ID : PES10090820-05A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	150	20 mg/L	09/08/10
Date Sampled 09/06/10 11:59	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	150	20 mg/L	09/08/10
<b>Client ID: RSAM-5-S7</b>				
Lab ID : PES10090820-06A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	340	20 mg/L	09/08/10
Date Sampled 09/05/10 12:25	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	580	20 mg/L	09/08/10
<b>Client ID: SA-189-S5</b>				
Lab ID : PES10090820-07A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	160	20 mg/L	09/08/10
Date Sampled 09/07/10 11:59	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	160	20 mg/L	09/08/10



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---

ND = Not Detected

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Fax: (916) 393-7398  
Date Received : 09/08/10

Job: NGEM-TR-FL

### Ammonia as Nitrogen SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-SA-189-S2</b>				
Lab ID : PES10090820-01A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/13/10	09/13/10
Date Sampled 09/04/10 11:59				
Client ID: <b>NGEM-TRON-FL-RSAM-5-S6</b>				
Lab ID : PES10090820-02A Nitrogen, Ammonia (As N)	120	5.0 mg/L	09/13/10	09/13/10
Date Sampled 09/04/10 12:25				
Client ID: <b>NGEM-TRON-FL-RSAM-6-S5</b>				
Lab ID : PES10090820-03A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/13/10	09/13/10
Date Sampled 09/04/10 12:26				
Client ID: <b>SA-189-S3</b>				
Lab ID : PES10090820-04A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/13/10	09/13/10
Date Sampled 09/05/10 11:59				
Client ID: <b>SA-189-S4</b>				
Lab ID : PES10090820-05A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/13/10	09/13/10
Date Sampled 09/06/10 11:59				
Client ID: <b>RSAM-5-S7</b>				
Lab ID : PES10090820-06A Nitrogen, Ammonia (As N)	110	5.0 mg/L	09/13/10	09/13/10
Date Sampled 09/05/10 12:25				
Client ID: <b>SA-189-S5</b>				
Lab ID : PES10090820-07A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/13/10	09/13/10
Date Sampled 09/07/10 11:59				

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/08/10

Job: NGEM-TR-FL

### Dissolved Metals by ICPMS EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
<b>Client ID: NGEM-TRON-FL-SA-189-S2</b>					
Lab ID : PES10090820-01A	Boron (B), Dissolved	3.4	0.10 mg/L	09/13/10 16:13	09/14/10
Date Sampled 09/04/10 11:59	Sodium (Na), Dissolved	760	0.50 mg/L	09/13/10 16:13	09/14/10
	Magnesium (Mg), Dissolved	120	0.50 mg/L	09/13/10 16:13	09/14/10
	Potassium (K), Dissolved	10	0.50 mg/L	09/13/10 16:13	09/14/10
	Calcium (Ca), Dissolved	380	0.50 mg/L	09/13/10 16:13	09/14/10
	Chromium (Cr), Dissolved	0.0086	0.0050 mg/L	09/13/10 16:13	09/14/10
	Manganese (Mn), Dissolved	0.010	0.0050 mg/L	09/13/10 16:13	09/14/10
	Iron (Fe), Dissolved	1.8	0.10 mg/L	09/13/10 16:13	09/14/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Arsenic (As), Dissolved	0.036	0.0020 mg/L	09/13/10 16:13	09/14/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
<b>Client ID: NGEM-TRON-FL-RSAM-5-S6</b>					
Lab ID : PES10090820-02A	Boron (B), Dissolved	0.54	0.10 mg/L	09/13/10 16:13	09/14/10
Date Sampled 09/04/10 12:25	Sodium (Na), Dissolved	290	0.50 mg/L	09/13/10 16:13	09/14/10
	Magnesium (Mg), Dissolved	1.2	0.50 mg/L	09/13/10 16:13	09/14/10
	Potassium (K), Dissolved	13	0.50 mg/L	09/13/10 16:13	09/14/10
	Calcium (Ca), Dissolved	3.1	0.50 mg/L	09/13/10 16:13	09/14/10
	Chromium (Cr), Dissolved	0.11	0.0050 mg/L	09/13/10 16:13	09/14/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Iron (Fe), Dissolved	ND	0.10 mg/L	09/13/10 16:13	09/14/10
	Cobalt (Co), Dissolved	0.017	0.0050 mg/L	09/13/10 16:13	09/14/10
	Arsenic (As), Dissolved	0.12	0.0020 mg/L	09/13/10 16:13	09/14/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
<b>Client ID: NGEM-TRON-FL-RSAM-6-S5</b>					
Lab ID : PES10090820-03A	Boron (B), Dissolved	1.5	0.10 mg/L	09/13/10 16:13	09/14/10
Date Sampled 09/04/10 12:26	Sodium (Na), Dissolved	180	0.50 mg/L	09/13/10 16:13	09/14/10
	Magnesium (Mg), Dissolved	30	0.50 mg/L	09/13/10 16:13	09/14/10
	Potassium (K), Dissolved	17	0.50 mg/L	09/13/10 16:13	09/14/10
	Calcium (Ca), Dissolved	100	0.50 mg/L	09/13/10 16:13	09/14/10
	Chromium (Cr), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Iron (Fe), Dissolved	0.51	0.10 mg/L	09/13/10 16:13	09/14/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Arsenic (As), Dissolved	0.0070	0.0020 mg/L	09/13/10 16:13	09/14/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10



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**Client ID: SA-189-S3**

Lab ID : PES10090820-04A	Boron (B), Dissolved	3.6	0.10 mg/L	09/13/10 16:13	09/14/10
Date Sampled 09/05/10 11:59	Sodium (Na), Dissolved	290	0.50 mg/L	09/13/10 16:13	09/14/10
	Magnesium (Mg), Dissolved	15	0.50 mg/L	09/13/10 16:13	09/14/10
	Potassium (K), Dissolved	4.0	0.50 mg/L	09/13/10 16:13	09/14/10
	Calcium (Ca), Dissolved	46	0.50 mg/L	09/13/10 16:13	09/14/10
	Chromium (Cr), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Iron (Fe), Dissolved	ND	0.10 mg/L	09/13/10 16:13	09/14/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Arsenic (As), Dissolved	0.056	0.0020 mg/L	09/13/10 16:13	09/14/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10

**Client ID: SA-189-S4**

Lab ID : PES10090820-05A	Boron (B), Dissolved	3.9	0.10 mg/L	09/13/10 16:13	09/14/10
Date Sampled 09/06/10 11:59	Sodium (Na), Dissolved	250	0.50 mg/L	09/13/10 16:13	09/14/10
	Magnesium (Mg), Dissolved	9.9	0.50 mg/L	09/13/10 16:13	09/14/10
	Potassium (K), Dissolved	3.5	0.50 mg/L	09/13/10 16:13	09/14/10
	Calcium (Ca), Dissolved	30	0.50 mg/L	09/13/10 16:13	09/14/10
	Chromium (Cr), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Iron (Fe), Dissolved	ND	0.10 mg/L	09/13/10 16:13	09/14/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Arsenic (As), Dissolved	0.066	0.0020 mg/L	09/13/10 16:13	09/14/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10

**Client ID: RSAM-5-S7**

Lab ID : PES10090820-06A	Boron (B), Dissolved	0.67	0.10 mg/L	09/13/10 16:13	09/14/10
Date Sampled 09/05/10 12:25	Sodium (Na), Dissolved	280	0.50 mg/L	09/13/10 16:13	09/14/10
	Magnesium (Mg), Dissolved	1.0	0.50 mg/L	09/13/10 16:13	09/14/10
	Potassium (K), Dissolved	14	0.50 mg/L	09/13/10 16:13	09/14/10
	Calcium (Ca), Dissolved	3.1	0.50 mg/L	09/13/10 16:13	09/14/10
	Chromium (Cr), Dissolved	0.11	0.0050 mg/L	09/13/10 16:13	09/14/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Iron (Fe), Dissolved	ND	0.10 mg/L	09/13/10 16:13	09/14/10
	Cobalt (Co), Dissolved	0.019	0.0050 mg/L	09/13/10 16:13	09/14/10
	Arsenic (As), Dissolved	0.15	0.0020 mg/L	09/13/10 16:13	09/14/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10

**Client ID: SA-189-S5**

Lab ID : PES10090820-07A	Boron (B), Dissolved	3.7	0.10 mg/L	09/13/10 16:13	09/14/10
Date Sampled 09/07/10 11:59	Sodium (Na), Dissolved	230	0.50 mg/L	09/13/10 16:13	09/14/10
	Magnesium (Mg), Dissolved	8.3	0.50 mg/L	09/13/10 16:13	09/14/10
	Potassium (K), Dissolved	3.3	0.50 mg/L	09/13/10 16:13	09/14/10
	Calcium (Ca), Dissolved	26	0.50 mg/L	09/13/10 16:13	09/14/10
	Chromium (Cr), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Iron (Fe), Dissolved	ND	0.10 mg/L	09/13/10 16:13	09/14/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Arsenic (As), Dissolved	0.073	0.0020 mg/L	09/13/10 16:13	09/14/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10





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---

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

9/15/10

**Report Date**



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/08/10

Job: NGEM-TR-FL

Total Dissolved Solids (TDS)  
SM2540C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-SA-189-S2</b>				
Lab ID : PES10090820-01A Solids, Total Dissolved (TDS) Date Sampled 09/04/10 11:59	3,600	25 mg/L	09/14/10	09/14/10
Client ID: <b>NGEM-TRON-FL-RSAM-5-S6</b>				
Lab ID : PES10090820-02A Solids, Total Dissolved (TDS) Date Sampled 09/04/10 12:25	880	10 mg/L	09/13/10	09/13/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S5</b>				
Lab ID : PES10090820-03A Solids, Total Dissolved (TDS) Date Sampled 09/04/10 12:26	1,000	10 mg/L	09/13/10	09/13/10
Client ID: <b>SA-189-S3</b>				
Lab ID : PES10090820-04A Solids, Total Dissolved (TDS) Date Sampled 09/05/10 11:59	1,100	10 mg/L	09/13/10	09/13/10
Client ID: <b>SA-189-S4</b>				
Lab ID : PES10090820-05A Solids, Total Dissolved (TDS) Date Sampled 09/06/10 11:59	800	10 mg/L	09/13/10	09/13/10
Client ID: <b>RSAM-5-S7</b>				
Lab ID : PES10090820-06A Solids, Total Dissolved (TDS) Date Sampled 09/05/10 12:25	820	10 mg/L	09/13/10	09/13/10
Client ID: <b>SA-189-S5</b>				
Lab ID : PES10090820-07A Solids, Total Dissolved (TDS) Date Sampled 09/07/10 11:59	750	10 mg/L	09/13/10	09/13/10

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*Randy Gardner*

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9/15/10

Report Date



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/08/10

Job: NGEM-TR-FL

Total Organic Carbon as NonPurgeable Organic Carbon  
EPA Method SW9060 / SM5310C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-SA-189-S2</b> Lab ID : PES10090820-01A Total Organic Carbon Date Sampled 09/04/10 11:59	6.9	1.0 mg/L	09/08/10 08:58	09/09/10
Client ID: <b>NGEM-TRON-FL-RSAM-5-S6</b> Lab ID : PES10090820-02A Total Organic Carbon Date Sampled 09/04/10 12:25	14	1.0 mg/L	09/08/10 08:58	09/09/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S5</b> Lab ID : PES10090820-03A Total Organic Carbon Date Sampled 09/04/10 12:26	3.6	1.0 mg/L	09/08/10 08:58	09/09/10
Client ID: <b>SA-189-S3</b> Lab ID : PES10090820-04A Total Organic Carbon Date Sampled 09/05/10 11:59	6.3	1.0 mg/L	09/08/10 08:58	09/09/10
Client ID: <b>SA-189-S4</b> Lab ID : PES10090820-05A Total Organic Carbon Date Sampled 09/06/10 11:59	5.1	1.0 mg/L	09/08/10 08:58	09/09/10
Client ID: <b>RSAM-5-S7</b> Lab ID : PES10090820-06A Total Organic Carbon Date Sampled 09/05/10 12:25	12	1.0 mg/L	09/08/10 08:58	09/09/10
Client ID: <b>SA-189-S5</b> Lab ID : PES10090820-07A Total Organic Carbon Date Sampled 09/07/10 11:59	4.2	1.0 mg/L	09/08/10 08:58	09/09/10

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9/15/10

Report Date



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## ANALYTICAL REPORT

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5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/08/10

Job: NGEM-TR-FL

### Total Suspended Solids SM2540D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-SA-189-S2</b>				
Lab ID : PES10090820-01A Solids, Total Suspended (TSS) Date Sampled 09/04/10 11:59	24	2.5 mg/L	09/13/10	09/13/10
Client ID: <b>NGEM-TRON-FL-RSAM-5-S6</b>				
Lab ID : PES10090820-02A Solids, Total Suspended (TSS) Date Sampled 09/04/10 12:25	ND	2.5 mg/L	09/13/10	09/13/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S5</b>				
Lab ID : PES10090820-03A Solids, Total Suspended (TSS) Date Sampled 09/04/10 12:26	11	2.5 mg/L	09/13/10	09/13/10
Client ID: <b>SA-189-S3</b>				
Lab ID : PES10090820-04A Solids, Total Suspended (TSS) Date Sampled 09/05/10 11:59	ND	2.5 mg/L	09/13/10	09/13/10
Client ID: <b>SA-189-S4</b>				
Lab ID : PES10090820-05A Solids, Total Suspended (TSS) Date Sampled 09/06/10 11:59	ND	2.5 mg/L	09/13/10	09/13/10
Client ID: <b>RSAM-5-S7</b>				
Lab ID : PES10090820-06A Solids, Total Suspended (TSS) Date Sampled 09/05/10 12:25	ND	2.5 mg/L	09/13/10	09/13/10
Client ID: <b>SA-189-S5</b>				
Lab ID : PES10090820-07A Solids, Total Suspended (TSS) Date Sampled 09/07/10 11:59	ND	2.5 mg/L	09/13/10	09/13/10

ND = Not Detected

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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/08/10

Job: NGEM-TR-FL

### Volatile Organic Compounds (VOCs) EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : NGEM-TRON-FL-SA-189-S2				
Lab ID : PES10090820-01A Chloroform	ND	1.0 µg/L	09/10/10	09/10/10
Date Sampled 09/04/10 11:59				
Client ID : NGEM-TRON-FL-RSAM-5-S6				
Lab ID : PES10090820-02A Chloroform	ND	1.0 µg/L	09/10/10	09/10/10
Date Sampled 09/04/10 12:25				
Client ID : NGEM-TRON-FL-RSAM-6-S5				
Lab ID : PES10090820-03A Chloroform	ND	1.0 µg/L	09/10/10	09/10/10
Date Sampled 09/04/10 12:26				
Client ID : SA-189-S3				
Lab ID : PES10090820-04A Chloroform	ND	1.0 µg/L	09/10/10	09/10/10
Date Sampled 09/05/10 11:59				
Client ID : SA-189-S4				
Lab ID : PES10090820-05A Chloroform	ND	1.0 µg/L	09/10/10	09/10/10
Date Sampled 09/06/10 11:59				
Client ID : RSAM-5-S7				
Lab ID : PES10090820-06A Chloroform	ND	1.0 µg/L	09/10/10	09/10/10
Date Sampled 09/05/10 12:25				
Client ID : SA-189-S5				
Lab ID : PES10090820-07A Chloroform	ND	1.0 µg/L	09/10/10	09/10/10
Date Sampled 09/07/10 11:59				

ND = Not Detected

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*Randy Gardner*

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*PS*

9/15/10

Report Date



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## VOC Sample Preservation Report

Work Order: PES10090820

Job: NGEM-TR-FL

Alpha's Sample ID	Client's Sample ID	Matrix	pH
10090820-01A	NGEM-TRON-FL-SA-189-S2	Aqueous	2
10090820-02A	NGEM-TRON-FL-RSAM-5-S6	Aqueous	2
10090820-03A	NGEM-TRON-FL-RSAM-6-S5	Aqueous	2
10090820-04A	SA-189-S3	Aqueous	2
10090820-05A	SA-189-S4	Aqueous	2
10090820-06A	RSAM-5-S7	Aqueous	2
10090820-07A	SA-189-S5	Aqueous	2

9/15/10  
Report Date



# Alpha Analytical, Inc.

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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090820

### Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **20**

Batch ID: **25008**

Analysis Date: **09/08/2010 11:55**

Sample ID: **MB-25008**

Units : **mg/L**

Run ID: **IC\_1\_100908A**

Prep Date: **09/08/2010 10:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	ND	0.25								
Chloride	ND	0.5								
Bromide	ND	0.25								
Nitrate (NO3) - N	ND	0.25								
Phosphate, ortho - P	ND	0.5								
Sulfate (SO4)	ND	0.5								

### Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **21**

Batch ID: **25008**

Analysis Date: **09/08/2010 12:13**

Sample ID: **LFB-25008**

Units : **mg/L**

Run ID: **IC\_1\_100908A**

Prep Date: **09/08/2010 10:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.41	0.25	5		108	90	110			
Chloride	50.2	0.5	50		100	90	110			
Bromide	5.1	0.25	5		102	90	110			
Nitrate (NO3) - N	5.34	0.25	5		107	90	110			
Phosphate, ortho - P	5.35	0.5	5		107	90	110			
Sulfate (SO4)	100	0.5	100		100	90	110			

### Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **26**

Batch ID: **25008**

Analysis Date: **09/08/2010 13:47**

Sample ID: **10090702-03ALFM**

Units : **mg/L**

Run ID: **IC\_1\_100908A**

Prep Date: **09/08/2010 10:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	4.74	0.25	5	0	95	80	120			
Chloride	100	0.5	50	64.06	73	80	120			M2
Bromide	5.57	0.25	5	0.3565	104	80	120			
Nitrate (NO3) - N	11.2	0.25	5	7.149	81	80	120			
Phosphate, ortho - P	6.01	0.5	5	0	120	80	120			
Sulfate (SO4)	134	0.5	100	49.15	85	80	120			

### Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **27**

Batch ID: **25008**

Analysis Date: **09/08/2010 14:06**

Sample ID: **10090702-03ALFMD**

Units : **mg/L**

Run ID: **IC\_1\_100908A**

Prep Date: **09/08/2010 10:49**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	4.96	0.25	5	0	99	80	120	4.743	4.4(15)	
Chloride	101	0.5	50	64.06	74	80	120	100.3	0.9(15)	M2
Bromide	5.76	0.25	5	0.3565	108	80	120	5.565	3.5(15)	
Nitrate (NO3) - N	11.6	0.25	5	7.149	88	80	120	11.21	3.0(15)	
Phosphate, ortho - P	6.83	0.5	5	0	137	80	120	6.008	12.8(15)	M1
Sulfate (SO4)	137	0.5	100	49.15	88	80	120	134.1	2.2(15)	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



# Alpha Analytical, Inc.

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Date:

24-Sep-10

## QC Summary Report

Work Order:

10090820

### Method Blank

File ID: 14	Type: MBLK	Test Code: EPA Method 314.0	Batch ID: 24999	Analysis Date: 09/07/2010 12:00						
Sample ID: MB-24999	Units: µg/L	Run ID: IC_3_100907A	Prep Date: 09/07/2010 11:03							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	ND	2								

### Laboratory Fortified Blank

File ID: 15	Type: LFB	Test Code: EPA Method 314.0	Batch ID: 24999	Analysis Date: 09/07/2010 12:18						
Sample ID: LFB-24999	Units: µg/L	Run ID: IC_3_100907A	Prep Date: 09/07/2010 11:03							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	27.8	2	25		111	85	115			

### Sample Matrix Spike

File ID: 20	Type: LFM	Test Code: EPA Method 314.0	Batch ID: 24999	Analysis Date: 09/07/2010 13:51						
Sample ID: 10090720-02ALFM	Units: µg/L	Run ID: IC_3_100907A	Prep Date: 09/07/2010 11:03							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	4140	200	2500	3239	36	80	120			M2

### Sample Matrix Spike Duplicate

File ID: 21	Type: LFMD	Test Code: EPA Method 314.0	Batch ID: 24999	Analysis Date: 09/07/2010 14:09						
Sample ID: 10090720-02ALFMD	Units: µg/L	Run ID: IC_3_100907A	Prep Date: 09/07/2010 11:03							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	4380	200	2500	3239	46	80	120	4137	5.7(15)	M2

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.





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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090820

### Laboratory Control Spike

Type **LCS**

Test Code: **SM2320B**

File ID:

Batch ID: **W0908AL**

Analysis Date: **09/08/2010 12:26**

Sample ID: **LCS-W0908AL**

Units : mg/L

Run ID: **WETLAB\_100908A**

Prep Date: **09/08/2010 12:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	259.6	10	250		104	80	120			
Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	259.6	10	250		104	80	120			
Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	260	10	250		104	80	120			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090820

### Method Blank

Type **MBLK** Test Code: **SM4500-NH3D**

File ID:		Batch ID: <b>W0913AM</b>	Analysis Date: <b>09/13/2010 09:46</b>
Sample ID: <b>MBLK-W0913AM</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100913A</b>	Prep Date: <b>09/13/2010 09:46</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Nitrogen, Ammonia (As N)	ND	0.1	

### Laboratory Control Spike

Type **LCS** Test Code: **SM4500-NH3D**

File ID:		Batch ID: <b>W0913AM</b>	Analysis Date: <b>09/13/2010 09:40</b>
Sample ID: <b>LCS-W0913AM</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100913A</b>	Prep Date: <b>09/13/2010 09:40</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Nitrogen, Ammonia (As N)	4.83	0.1	5 97 70 130

### Sample Matrix Spike

Type **MS** Test Code: **SM4500-NH3D**

File ID:		Batch ID: <b>W0913AM</b>	Analysis Date: <b>09/13/2010 09:53</b>
Sample ID: <b>10090320-01AMS</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100913A</b>	Prep Date: <b>09/13/2010 09:53</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Nitrogen, Ammonia (As N)	214	10	50 180 68 65 138

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM4500-NH3D**

File ID:		Batch ID: <b>W0913AM</b>	Analysis Date: <b>09/13/2010 09:56</b>
Sample ID: <b>10090320-01AMSD</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100913A</b>	Prep Date: <b>09/13/2010 09:56</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Nitrogen, Ammonia (As N)	202	10	50 180 44 65 138 214 5.8(20) M2

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:  
15-Sep-10

## QC Summary Report

Work Order:  
10090820

### Method Blank

Type: **MBLK** Test Code: **EPA Method 200.8**

File ID: **091310.B\079\_M.D\**

Batch ID: **25033**

Analysis Date: **09/14/2010 00:19**

Sample ID: **MB-25033**

Units : **mg/L** Run ID: **ICP/MS\_100913B**

Prep Date: **09/13/2010 16:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	ND	0.1								
Sodium (Na), Dissolved	ND	0.5								
Magnesium (Mg), Dissolved	ND	0.5								
Potassium (K), Dissolved	ND	0.5								
Calcium (Ca), Dissolved	ND	0.5								
Chromium (Cr), Dissolved	ND	0.005								
Manganese (Mn), Dissolved	ND	0.005								
Iron (Fe), Dissolved	ND	0.1								
Cobalt (Co), Dissolved	ND	0.005								
Arsenic (As), Dissolved	ND	0.002								
Lead (Pb), Dissolved	ND	0.005								

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method 200.8**

File ID: **091310.B\080\_M.D\**

Batch ID: **25033**

Analysis Date: **09/14/2010 00:25**

Sample ID: **LCS-25033**

Units : **mg/L** Run ID: **ICP/MS\_100913B**

Prep Date: **09/13/2010 16:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.052	0.1	0.058		90	80	120			
Sodium (Na), Dissolved	5.17	0.5	5		103	80	120			
Magnesium (Mg), Dissolved	5.17	0.5	5		103	80	120			
Potassium (K), Dissolved	5.18	0.5	5		104	80	120			
Calcium (Ca), Dissolved	5.18	0.5	5		104	80	120			
Chromium (Cr), Dissolved	0.0568	0.005	0.05		114	80	120			
Manganese (Mn), Dissolved	0.0533	0.005	0.05		107	80	120			
Iron (Fe), Dissolved	5.44	0.1	5		109	80	120			
Cobalt (Co), Dissolved	0.055	0.005	0.05		110	80	120			
Arsenic (As), Dissolved	0.0514	0.002	0.05		103	80	120			
Lead (Pb), Dissolved	0.0486	0.005	0.05		97	80	120			

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method 200.8**

File ID: **091310.B\085\_SS.D\**

Batch ID: **25033**

Analysis Date: **09/14/2010 00:53**

Sample ID: **10090820-07AMS**

Units : **mg/L** Run ID: **ICP/MS\_100913B**

Prep Date: **09/13/2010 16:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	3.44	0.1	0.058	3.683	-420	75	125			M3
Sodium (Na), Dissolved	222	0.5	5	228.9	-140	75	125			M3
Magnesium (Mg), Dissolved	12.6	0.5	5	8.266	87	75	125			
Potassium (K), Dissolved	8.51	0.5	5	3.063	109	75	125			
Calcium (Ca), Dissolved	30	0.5	5	25.83	83	75	125			
Chromium (Cr), Dissolved	0.0554	0.005	0.05	0	111	75	125			
Manganese (Mn), Dissolved	0.0492	0.005	0.05	0	98	75	125			
Iron (Fe), Dissolved	4.99	0.2	5	0	99.8	75	125			
Cobalt (Co), Dissolved	0.0508	0.005	0.05	0	102	75	125			
Arsenic (As), Dissolved	0.12	0.002	0.05	0.07253	95	75	125			
Lead (Pb), Dissolved	0.0491	0.005	0.05	0	98	75	125			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method 200.8**

File ID: **091310.B\086\_SS.D\**

Batch ID: **25033**

Analysis Date: **09/14/2010 00:59**

Sample ID: **10090820-07AMSD**

Units : **mg/L** Run ID: **ICP/MS\_100913B**

Prep Date: **09/13/2010 16:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	3.62	0.1	0.058	3.683	-100	75	125	3.437	5.3(20)	M3
Sodium (Na), Dissolved	223	0.5	5	228.9	-120	75	125	221.9	0.4(20)	M3
Magnesium (Mg), Dissolved	12.8	0.5	5	8.266	90	75	125	12.63	1.3(20)	
Potassium (K), Dissolved	8.15	0.5	5	3.063	102	75	125	8.509	4.3(20)	
Calcium (Ca), Dissolved	29.6	0.5	5	25.83	76	75	125	29.97	1.1(20)	
Chromium (Cr), Dissolved	0.0535	0.005	0.05	0	107	75	125	0.05544	3.6(20)	
Manganese (Mn), Dissolved	0.048	0.005	0.05	0	96	75	125	0.04923	2.5(20)	
Iron (Fe), Dissolved	4.95	0.2	5	0	99	75	125	4.992	0.9(20)	
Cobalt (Co), Dissolved	0.0506	0.005	0.05	0	101	75	125	0.05079	0.5(20)	
Arsenic (As), Dissolved	0.121	0.002	0.05	0.07253	97	75	125	0.1201	0.9(20)	
Lead (Pb), Dissolved	0.0478	0.005	0.05	0	96	75	125	0.04911	2.7(20)	



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---

**Date:**

*15-Sep-10*

## QC Summary Report

**Work Order:**

10090820

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**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.



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Date:  
24-Sep-10

## QC Summary Report

Work Order:  
10090820

### Method Blank

Type: **MBLK** Test Code: **SM2540C**

File ID: Batch ID: **W0910DS** Analysis Date: **09/13/2010 00:00**  
Sample ID: **MBLK-W0910DS** Units : **mg/L** Run ID: **WETLAB\_100910D** Prep Date: **09/13/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) ND 10

### Laboratory Control Spike

Type: **LCS** Test Code: **SM2540C**

File ID: Batch ID: **W0910DS** Analysis Date: **09/13/2010 00:00**  
Sample ID: **LCS-W0910DS** Units : **mg/L** Run ID: **WETLAB\_100910D** Prep Date: **09/13/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) 93 10 100 93 80 120

### Comments:

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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090820

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW9060 / SM5310C**

File ID:				Batch ID: <b>25005</b>		Analysis Date: <b>09/08/2010 11:20</b>				
Sample ID: <b>MBLK-25005</b>	Units : <b>mg/L</b>		Run ID: <b>TOC_100908A</b>		Prep Date: <b>09/08/2010 08:58</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	ND		1							

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:				Batch ID: <b>25005</b>		Analysis Date: <b>09/08/2010 11:45</b>				
Sample ID: <b>LCS-25005</b>	Units : <b>mg/L</b>		Run ID: <b>TOC_100908A</b>		Prep Date: <b>09/08/2010 08:58</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	4.52	1	5		90	74	126			

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:				Batch ID: <b>25005</b>		Analysis Date: <b>09/10/2010 11:31</b>				
Sample ID: <b>10090720-02AMS</b>	Units : <b>mg/L</b>		Run ID: <b>TOC_100908A</b>		Prep Date: <b>09/08/2010 08:58</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	10.1	1	5	4.713	109	56	137			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW9060 / SM5310C**

File ID:				Batch ID: <b>25005</b>		Analysis Date: <b>09/10/2010 12:00</b>				
Sample ID: <b>10090720-02AMSD</b>	Units : <b>mg/L</b>		Run ID: <b>TOC_100908A</b>		Prep Date: <b>09/08/2010 08:58</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	10.5	1	5	4.713	115	56	137	10.14	3.4(20)	

### Comments:

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Date:  
24-Sep-10

## QC Summary Report

Work Order:  
10090820

### Method Blank

Type: **MBLK** Test Code: **SM2540D**

File ID: Batch ID: **W0910SS** Analysis Date: **09/13/2010 00:00**  
Sample ID: **MBLK-W0910SS** Units : **mg/L** Run ID: **WETLAB\_100910E** Prep Date: **09/13/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Suspended (TSS) ND 2.5

### Laboratory Control Spike

Type: **LCS** Test Code: **SM2540D**

File ID: Batch ID: **W0910SS** Analysis Date: **09/13/2010 00:00**  
Sample ID: **LCS-W0910SS** Units : **mg/L** Run ID: **WETLAB\_100910E** Prep Date: **09/13/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Suspended (TSS) 76 2.5 100 76 50 140

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090820

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **10090931.D**

Batch ID: **MS12W0909C**

Analysis Date: **09/09/2010 20:16**

Sample ID: **MBLK MS12W0909C**

Units: **µg/L**

Run ID: **MSD\_12\_100909B**

Prep Date: **09/09/2010 20:16**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	ND	1								
Surr: 1,2-Dichloroethane-d4	10.6		10		106	70	130			
Surr: Toluene-d8	9.94		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.44		10		94	70	130			

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **10090928.D**

Batch ID: **MS12W0909C**

Analysis Date: **09/09/2010 19:08**

Sample ID: **LCS MS12W0909C**

Units: **µg/L**

Run ID: **MSD\_12\_100909B**

Prep Date: **09/09/2010 19:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	9.83	1	10		98	80	120			
Surr: 1,2-Dichloroethane-d4	10.3		10		103	70	130			
Surr: Toluene-d8	9.88		10		99	70	130			
Surr: 4-Bromofluorobenzene	10.7		10		107	70	130			

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **10090943.D**

Batch ID: **MS12W0909C**

Analysis Date: **09/10/2010 00:51**

Sample ID: **10090246-08AMS**

Units: **µg/L**

Run ID: **MSD\_12\_100909B**

Prep Date: **09/10/2010 00:51**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	52.9	2.5	50	3.41	99	67	130			
Surr: 1,2-Dichloroethane-d4	60.3		50		121	70	130			
Surr: Toluene-d8	46.3		50		93	70	130			
Surr: 4-Bromofluorobenzene	48		50		96	70	130			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **10090944.D**

Batch ID: **MS12W0909C**

Analysis Date: **09/10/2010 01:14**

Sample ID: **10090246-08AMSD**

Units: **µg/L**

Run ID: **MSD\_12\_100909B**

Prep Date: **09/10/2010 01:14**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	54	2.5	50	3.41	101	67	130	52.93	2.0(20)	
Surr: 1,2-Dichloroethane-d4	57		50		114	70	130			
Surr: Toluene-d8	46.8		50		94	70	130			
Surr: 4-Bromofluorobenzene	50		50		100	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.





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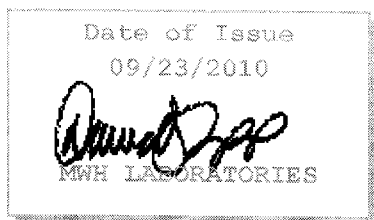
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Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

## Laboratory Report

for

Alpha Analytical, Inc.  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attention: Reyna Vallejo  
Fax: 775-355-0406



Report#: 342879  
Project: SUBCONTRACT  
Group: Chlorate

DST: David S Tripp  
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.



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**Laboratory**  
**Hits Report: 342879**

**Alpha Analytical, Inc.**  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

Samples Received on:  
09/08/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
09/14/2010	20:51 Chlorate by IC	<u>201009080286</u> <u>NGEM-TRON-FL-SA-189-S2</u>	4000		ug/L	500
09/16/2010	07:29 Chlorate by IC	<u>201009080289</u> <u>NGEM-TRON-FL-RSAM-5-S6</u>	180		ug/L	10
09/20/2010	23:39 Chlorate by IC	<u>201009080290</u> <u>NGEM-TRON-FL-RSAM-6-S5</u>	69		ug/L	10
09/21/2010	00:29 Chlorate by IC	<u>201009080291</u> <u>SA-189-S3</u>	130		ug/L	10
09/21/2010	01:19 Chlorate by IC	<u>201009080292</u> <u>SA-189-S4</u>	68		ug/L	10
09/21/2010	02:10 Chlorate by IC	<u>201009080293</u> <u>RSAM-5-S7</u>	160		ug/L	10
09/21/2010	03:00 Chlorate by IC	<u>201009080294</u> <u>SA-189-S5</u>	70		ug/L	10



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**Alpha Analytical, Inc.**  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

**Laboratory Data**  
**Report: 342879**

Samples Received on:  
09/08/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>NGEM-TRON-FL-SA-189-S2 (201009080286)</u></b>						<b>Sampled on 09/04/2010 1159</b>		
Variable ID: PES10090820-01A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/14/2010	20:51	569169	(EPA 300.0)	Chlorate by IC	4000	ug/L	500	50
<b><u>NGEM-TRON-FL-RSAM-5-S6 (201009080289)</u></b>						<b>Sampled on 09/04/2010 1225</b>		
Variable ID: PES10090820-02A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/16/2010	07:29	569355	(EPA 300.0)	Chlorate by IC	180	ug/L	10	1
<b><u>NGEM-TRON-FL-RSAM-6-S5 (201009080290)</u></b>						<b>Sampled on 09/04/2010 1226</b>		
Variable ID: PES10090820-03A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/20/2010	23:39	569892	(EPA 300.0)	Chlorate by IC	69	ug/L	10	1
<b><u>SA-189-S3 (201009080291)</u></b>						<b>Sampled on 09/05/2010 1159</b>		
Variable ID: PES10090820-04A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/21/2010	00:29	569892	(EPA 300.0)	Chlorate by IC	130	ug/L	10	1
<b><u>SA-189-S4 (201009080292)</u></b>						<b>Sampled on 09/06/2010 1159</b>		
Variable ID: PES10090820-05A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/21/2010	01:19	569892	(EPA 300.0)	Chlorate by IC	68	ug/L	10	1
<b><u>RSAM-5-S7 (201009080293)</u></b>						<b>Sampled on 09/05/2010 1225</b>		
Variable ID: PES10090820-06A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/21/2010	02:10	569892	(EPA 300.0)	Chlorate by IC	160	ug/L	10	1
<b><u>SA-189-S5 (201009080294)</u></b>						<b>Sampled on 09/07/2010 1159</b>		
Variable ID: PES10090820-07A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/21/2010	03:00	569892	(EPA 300.0)	Chlorate by IC	70	ug/L	10	1



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Alpha Analytical, Inc.  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

---

**Laboratory Comments**  
**Report: #342879**



**MWH**

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**Laboratory**  
**QC Summary: 342879**

Alpha Analytical, Inc.

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**QC Ref # 569169 - Disinfection ByProducts by 300.0**

201009080286      NGEM-TRON-FL-SA-189-S2

**Analysis Date: 09/14/2010**

Analyzed by: LUPE

**QC Ref # 569355 - Disinfection ByProducts by 300.0**

201009080289      NGEM-TRON-FL-RSAM-5-S6

**Analysis Date: 09/16/2010**

Analyzed by: LUPE

**QC Ref # 569892 - Disinfection ByProducts by 300.0**

201009080290      NGEM-TRON-FL-RSAM-6-S5

**Analysis Date: 09/20/2010**

Analyzed by: LUPE

201009080291      SA-189-S3

Analyzed by: LUPE

201009080292      SA-189-S4

Analyzed by: LUPE

201009080293      RSAM-5-S7

Analyzed by: LUPE

201009080294      SA-189-S5

Analyzed by: LUPE



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Laboratory  
QC Report: 342879

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 569169 - Disinfection ByProducts by 300.0 by EPA 300.0</b>					<b>Analysis Date: 09/14/2010</b>				
LCS1	Bromide		100	102	ug/L	102	(90-110)		
LCS2	Bromide		100	100	ug/L	100	(90-110)	20	2.0
MBLK	Bromide			<5.0	ug/L				
MRL_CHK	Bromide		5.0	5.00	ug/L	100	(50-150)		
MS_201009010404	Bromide		50	46.5	ug/L	93	(80-120)		
MS_201009130066	Bromide	6.6	50	55.2	ug/L	97	(80-120)		
MSD_201009010404	Bromide		50	45.9	ug/L	92	(80-120)	15	1.3
MSD_201009130066	Bromide	6.6	50	54.5	ug/L	96	(80-120)	15	1.4
LCS1	Chlorate by IC		200	206	ug/L	103	(90-110)		
LCS2	Chlorate by IC		200	206	ug/L	103	(90-110)	20	0.0
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	9.25	ug/L	93	(75-125)		
MS_201009010404	Chlorate by IC	110	100	200	ug/L	93	(80-120)		
MSD_201009010404	Chlorate by IC	110	100	201	ug/L	94	(80-120)	15	1.8
<b>QC Ref# 569355 - Disinfection ByProducts by 300.0 by EPA 300.0</b>					<b>Analysis Date: 09/15/2010</b>				
LCS1	Bromide		100	101	ug/L	101	(90-110)		
LCS2	Bromide		100	101	ug/L	101	(90-110)	20	0.0
MBLK	Bromide			<5.0	ug/L				
MRL_CHK	Bromide		5.0	5.86	ug/L	117	(50-150)		
MS_201009160225	Bromide	8.5	50	58.0	ug/L	99	(80-120)		
MSD_201009160225	Bromide	8.5	50	58.4	ug/L	100	(80-120)	15	0.60
LCS1	Chlorate by IC		200	208	ug/L	104	(90-110)		
LCS2	Chlorate by IC		200	206	ug/L	103	(90-110)	20	0.97
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	10.9	ug/L	109	(75-125)		
MS_201009160225	Chlorate by IC	100	100	201	ug/L	97	(80-120)		
MSD_201009160225	Chlorate by IC	100	100	199	ug/L	96	(80-120)	15	1.3
<b>QC Ref# 569892 - Disinfection ByProducts by 300.0 by EPA 300.0</b>					<b>Analysis Date: 09/20/2010</b>				
LCS1	Bromide		100	101	ug/L	101	(90-110)		
LCS2	Bromide		100	119	ug/L	<u>119</u>	(90-110)	20	16
MBLK	Bromide			<5.0	ug/L				
MRL_CHK	Bromide		5.0	4.94	ug/L	99	(50-150)		
MS_201009090293	Bromide	9.1	50	60.1	ug/L	102	(80-120)		
MS_201009150644	Bromide	250	50	304	ug/L	99	(80-120)		
MSD_201009090293	Bromide	9.1	50	60.0	ug/L	102	(80-120)	15	0.0
MSD_201009150644	Bromide	250	50	304	ug/L	98	(80-120)	15	0.31

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



MWH

LABORATORIES

A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
QC Report: 342879

Alpha Analytical, Inc.  
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chlorate by IC		200	198	ug/L	99	(90-110)		
LCS2	Chlorate by IC		200	195	ug/L	97	(90-110)	20	1.5
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	11.3	ug/L	113	(75-125)		
MS_201009090293	Chlorate by IC	ND	100	98.7	ug/L	99	(80-120)		
MS_201009150644	Chlorate by IC	230	100	332	ug/L	100	(80-120)		
MSD_201009090293	Chlorate by IC	ND	100	101	ug/L	101	(80-120)	15	2.3
MSD_201009150644	Chlorate by IC	230	100	334	ug/L	102	(80-120)	15	2.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



750 Royal Oaks Drive Suite 100, Monrovia, Ca 91016  
Phone 626-386-1100/Fax: 626-386-1101

### Acknowledgement of Samples Received

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attn: Reyna Vallejo  
Phone: 775-355-1044

Customer Code: ALPHA-NV  
Group #: 342879  
Project #: SUBCONTRACT  
Sample Group: Chlorate  
Project Manager: David S Tripp  
Phone: (626) 386-1158  
PO# PES10090820

The following samples were received from you on **September 08, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
<u>201009080286</u>	NGEM-TRON-FL-SA-189-S2 Variable ID: PES10090820-01A Chlorate by IC	04-Sep-2010 1159 RUSH
<u>201009080289</u>	NGEM-TRON-FL-RSAM-5-S6 Variable ID: PES10090820-02A Chlorate by IC	04-Sep-2010 1225 RUSH
<u>201009080290</u>	NGEM-TRON-FL-RSAM-6-S5 Variable ID: PES10090820-03A Chlorate by IC	04-Sep-2010 1226 RUSH
<u>201009080291</u>	SA-189-S3 Variable ID: PES10090820-04A Chlorate by IC	05-Sep-2010 1159 RUSH
<u>201009080292</u>	SA-189-S4 Variable ID: PES10090820-05A Chlorate by IC	06-Sep-2010 1159 RUSH
<u>201009080293</u>	RSAM-5-S7 Variable ID: PES10090820-06A Chlorate by IC	05-Sep-2010 1225 RUSH
<u>201009080294</u>	SA-189-S5 Variable ID: PES10090820-07A Chlorate by IC	07-Sep-2010 1159 RUSH

### Test Description



# Laboratory Report

## Report ID: 108055



**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/15/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

Dear Reyna Vallejo,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

**Approved By:**

A handwritten signature in black ink, appearing to read 'John Kobza', is written over a horizontal line.

Sierra Environmental Monitoring, Inc.

**Date:**

9/15/2010

**This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.**



**Laboratory Report**  
**Report ID: 108055**

**Sierra  
 Environmental  
 Monitoring, Inc.**

Alpha Analytical  
 Attn: Reyna Vallejo  
 255 Glendale Avenue Suite 21  
 Sparks, NV 89431

Date: 9/15/2010  
 Client: ALP-855  
 Taken by: CL  
 PO #:

*Analysis Report*

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0350	PES10090820-01 - NGEM-TRON-FL-SA-189-S2	9/4/2010	11:59 AM	9/8/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/9/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/14/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0351	PES10090820-02 - NGEM-TRON-FL-RSAM-5-S6	9/4/2010	12:25 PM	9/8/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/9/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/14/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0352	PES10090820-03 - NGEM-TRON-FL-RSAM-6-S5	9/4/2010	12:26 PM	9/8/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/9/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/14/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0353	PES10090820-04 - SA-189-S3	9/4/2010	11:59 AM	9/8/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/9/2010	
					Uranium - ICP-MS	EPA 200.8	0.010	mg/L	0.002	Li	9/14/2010	



**Laboratory Report**  
**Report ID: 108055**

**Sierra  
 Environmental  
 Monitoring, Inc.**

Alpha Analytical  
 Attn: Reyna Vallejo  
 255 Glendale Avenue Suite 21  
 Sparks, NV 89431

**Date:** 9/15/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Analysis Report***

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0354	PES10090820-05 - SA-189-S4	9/4/2010	11:59 AM	9/8/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/9/2010	
					Uranium - ICP-MS	EPA 200.8	0.011	mg/L	0.002	Li	9/14/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0355	PES10090820-06 - RSAM-5-S7	9/4/2010	12:25 PM	9/8/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/9/2010	
					Uranium - ICP-MS	EPA 200.8	0.005	mg/L	0.002	Li	9/14/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0356	PES10090820-07 - SA-189-S5	9/4/2010	11:59 AM	9/8/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/9/2010	
					Uranium - ICP-MS	EPA 200.8	0.011	mg/L	0.002	Li	9/14/2010	

**Data Flag Legend:**



**Laboratory Report**  
**Report ID: 108055**

**Sierra  
 Environmental  
 Monitoring, Inc.**

Alpha Analytical  
 Attn: Reyna Vallejo  
 255 Glendale Avenue Suite 21  
 Sparks, NV 89431

**Date:** 9/15/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Quality Control Report***

<i>Parameter</i>	<i>LCS, % Recovery</i>	<i>MS, % Recovery</i>	<i>MSD, % Recovery</i>	<i>RPD, %</i>	<i>Method Blank</i>
Uranium - ICP-MS	99.0	99.0	96.0	2.88	<0.002 mg/L

**Legend:** *LCS- Laboratory Control Standard*      *MS- Matrix Spike*      *MSD- Matrix Spike Duplicate*  
*RPD- Relative Percent Difference*

# CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 16, 2010

CLS Work Order #: CTI0357  
COC #:

Reyna Vallejo  
Alpha Analytical, Inc.-Sparks  
255 Glendale Ave.; Suite 21  
Sparks, NV 89431

**Project Name: PES10090820**

Enclosed are the results of analyses for samples received by the laboratory on 09/09/10 10:45. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.  
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090820 Project Number: PES10090820 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0357 COC #:
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## Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10090820-01A (NGEM-TRON-FL-SA-189-S2) (CTI0357-01) Aqueous    Sampled: 09/04/10 11:59    Received: 09/09/10 10:4</b>									
Hexachlorobenzene	ND	0.012	µg/L	1	CT06728	09/09/10	09/14/10	EPA 8081A	
Endrin ketone	ND	0.012	"	"	"	"	"	"	
Aldrin	ND	0.068	"	"	"	"	"	"	
alpha-BHC	ND	0.068	"	"	"	"	"	"	
<b>beta-BHC</b>	<b>0.90</b>	0.068	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.068	"	"	"	"	"	"	
delta-BHC	ND	0.068	"	"	"	"	"	"	
Chlordane	ND	0.68	"	"	"	"	"	"	
4,4'-DDD	ND	0.14	"	"	"	"	"	"	
4,4'-DDE	ND	0.14	"	"	"	"	"	"	
4,4'-DDT	ND	0.14	"	"	"	"	"	"	
Dieldrin	ND	0.14	"	"	"	"	"	"	
Endosulfan I	ND	0.068	"	"	"	"	"	"	
Endosulfan II	ND	0.14	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.14	"	"	"	"	"	"	
Endrin	ND	0.14	"	"	"	"	"	"	
Endrin aldehyde	ND	0.14	"	"	"	"	"	"	
Heptachlor	ND	0.068	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.068	"	"	"	"	"	"	
Methoxychlor	ND	0.68	"	"	"	"	"	"	
Toxaphene	ND	1.4	"	"	"	"	"	"	

<i>Surrogate: Tetrachloro-meta-xylene</i>	73 %	43-147	"	"	"	"
<i>Surrogate: Decachlorobiphenyl</i>	79 %	43-139	"	"	"	"

<b>PES10090820-02A (NGEM-TRON-FL-RSAM-5-S6) (CTI0357-02) Aqueous    Sampled: 09/04/10 12:25    Received: 09/09/10 10</b>									
Hexachlorobenzene	ND	0.012	µg/L	1	CT06728	09/09/10	09/14/10	EPA 8081A	
Endrin ketone	ND	0.012	"	"	"	"	"	"	
Aldrin	ND	0.067	"	"	"	"	"	"	
alpha-BHC	ND	0.067	"	"	"	"	"	"	
<b>beta-BHC</b>	<b>0.53</b>	0.067	"	"	"	"	"	"	

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090820 Project Number: PES10090820 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0357 COC #:
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## Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10090820-02A (NGEM-TRON-FL-RSAM-5-S6) (CTI0357-02) Aqueous    Sampled: 09/04/10 12:25    Received: 09/09/10 10</b>									
gamma-BHC (Lindane)	ND	0.067	µg/L	1	CT06728	"	09/14/10	EPA 8081A	
delta-BHC	ND	0.067	"	"	"	"	"	"	
Chlordane	ND	0.67	"	"	"	"	"	"	
4,4'-DDD	ND	0.13	"	"	"	"	"	"	
4,4'-DDE	ND	0.13	"	"	"	"	"	"	
4,4'-DDT	ND	0.13	"	"	"	"	"	"	
Dieldrin	ND	0.13	"	"	"	"	"	"	
Endosulfan I	ND	0.067	"	"	"	"	"	"	
Endosulfan II	ND	0.13	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.13	"	"	"	"	"	"	
Endrin	ND	0.13	"	"	"	"	"	"	
Endrin aldehyde	ND	0.13	"	"	"	"	"	"	
Heptachlor	ND	0.067	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.067	"	"	"	"	"	"	
Methoxychlor	ND	0.67	"	"	"	"	"	"	
Toxaphene	ND	1.3	"	"	"	"	"	"	
<hr/>									
Surrogate: Tetrachloro-meta-xylene		69 %		43-147	"	"	"	"	
Surrogate: Decachlorobiphenyl		64 %		43-139	"	"	"	"	
<hr/>									
<b>PES10090820-03A (NGEM-TRON-FL-RSAM-6-S5) (CTI0357-03) Aqueous    Sampled: 09/04/10 12:26    Received: 09/09/10 10</b>									
Hexachlorobenzene	ND	0.012	µg/L	1	CT06728	09/09/10	09/14/10	EPA 8081A	
Endrin ketone	ND	0.012	"	"	"	"	"	"	
Aldrin	ND	0.068	"	"	"	"	"	"	
alpha-BHC	ND	0.068	"	"	"	"	"	"	
<b>beta-BHC</b>	<b>2.8</b>	0.27	"	4	"	"	"	"	
gamma-BHC (Lindane)	ND	0.068	"	1	"	"	"	"	
delta-BHC	ND	0.068	"	"	"	"	"	"	
Chlordane	ND	0.68	"	"	"	"	"	"	
4,4'-DDD	ND	0.14	"	"	"	"	"	"	
4,4'-DDE	ND	0.14	"	"	"	"	"	"	

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090820 Project Number: PES10090820 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0357 COC #:
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## Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10090820-03A (NGEM-TRON-FL-RSAM-6-S5) (CTI0357-03) Aqueous Sampled: 09/04/10 12:26 Received: 09/09/10 10</b>									
4,4'-DDT	ND	0.14	µg/L	1	CT06728	"	09/14/10	EPA 8081A	
Dieldrin	ND	0.14	"	"	"	"	"	"	
Endosulfan I	ND	0.068	"	"	"	"	"	"	
Endosulfan II	ND	0.14	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.14	"	"	"	"	"	"	
Endrin	ND	0.14	"	"	"	"	"	"	
Endrin aldehyde	ND	0.14	"	"	"	"	"	"	
Heptachlor	ND	0.068	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.068	"	"	"	"	"	"	
Methoxychlor	ND	0.68	"	"	"	"	"	"	
Toxaphene	ND	1.4	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>									
		69 %		43-147	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>									
		80 %		43-139	"	"	"	"	
<b>PES10090820-04A (SA-189-S3) (CTI0357-04) Aqueous Sampled: 09/05/10 11:59 Received: 09/09/10 10:45</b>									
Hexachlorobenzene	ND	0.012	µg/L	1	CT06728	09/09/10	09/14/10	EPA 8081A	
Endrin ketone	ND	0.012	"	"	"	"	"	"	
Aldrin	ND	0.066	"	"	"	"	"	"	
alpha-BHC	ND	0.066	"	"	"	"	"	"	
<b>beta-BHC</b>	<b>0.89</b>	0.066	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.066	"	"	"	"	"	"	
delta-BHC	ND	0.066	"	"	"	"	"	"	
Chlordane	ND	0.66	"	"	"	"	"	"	
4,4'-DDD	ND	0.13	"	"	"	"	"	"	
4,4'-DDE	ND	0.13	"	"	"	"	"	"	
4,4'-DDT	ND	0.13	"	"	"	"	"	"	
Dieldrin	ND	0.13	"	"	"	"	"	"	
Endosulfan I	ND	0.066	"	"	"	"	"	"	
Endosulfan II	ND	0.13	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.13	"	"	"	"	"	"	



# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090820 Project Number: PES10090820 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0357 COC #:
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## Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10090820-04A (SA-189-S3) (CTI0357-04) Aqueous    Sampled: 09/05/10 11:59    Received: 09/09/10 10:45</b>									
Endrin	ND	0.13	µg/L	1	CT06728	"	09/14/10	EPA 8081A	
Endrin aldehyde	ND	0.13	"	"	"	"	"	"	
Heptachlor	ND	0.066	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.066	"	"	"	"	"	"	
Methoxychlor	ND	0.66	"	"	"	"	"	"	
Toxaphene	ND	1.3	"	"	"	"	"	"	

<i>Surrogate: Tetrachloro-meta-xylene</i>	74 %	43-147	"	"	"	"
<i>Surrogate: Decachlorobiphenyl</i>	85 %	43-139	"	"	"	"

<b>PES10090820-05A (SA-189-S4) (CTI0357-05) Aqueous    Sampled: 09/06/10 11:59    Received: 09/09/10 10:45</b>									
Endrin ketone	ND	0.012	µg/L	1	CT06728	09/09/10	09/14/10	EPA 8081A	
Hexachlorobenzene	ND	0.012	"	"	"	"	"	"	
Aldrin	ND	0.068	"	"	"	"	"	"	
alpha-BHC	ND	0.068	"	"	"	"	"	"	
<b>beta-BHC</b>	<b>1.0</b>	0.068	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.068	"	"	"	"	"	"	
delta-BHC	ND	0.068	"	"	"	"	"	"	
Chlordane	ND	0.68	"	"	"	"	"	"	
4,4'-DDD	ND	0.14	"	"	"	"	"	"	
4,4'-DDE	ND	0.14	"	"	"	"	"	"	
4,4'-DDT	ND	0.14	"	"	"	"	"	"	
Dieldrin	ND	0.14	"	"	"	"	"	"	
Endosulfan I	ND	0.068	"	"	"	"	"	"	
Endosulfan II	ND	0.14	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.14	"	"	"	"	"	"	
Endrin	ND	0.14	"	"	"	"	"	"	
Endrin aldehyde	ND	0.14	"	"	"	"	"	"	
Heptachlor	ND	0.068	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.068	"	"	"	"	"	"	
Methoxychlor	ND	0.68	"	"	"	"	"	"	

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090820 Project Number: PES10090820 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0357 COC #:
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## Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10090820-05A (SA-189-S4) (CTI0357-05) Aqueous</b> <b>Sampled: 09/06/10 11:59</b> <b>Received: 09/09/10 10:45</b>									
Toxaphene	ND	1.4	µg/L	1	CT06728	"	09/14/10	EPA 8081A	
<i>Surrogate: Tetrachloro-meta-xylene</i>		81 %		43-147	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		88 %		43-139	"	"	"	"	
<b>PES10090820-06A (RSAM-5-S7) (CTI0357-06) Aqueous</b> <b>Sampled: 09/05/10 12:25</b> <b>Received: 09/09/10 10:45</b>									
Hexachlorobenzene	ND	0.012	µg/L	1	CT06728	09/09/10	09/14/10	EPA 8081A	
Endrin ketone	ND	0.012	"	"	"	"	"	"	
Aldrin	ND	0.068	"	"	"	"	"	"	
alpha-BHC	ND	0.068	"	"	"	"	"	"	
<b>beta-BHC</b>	<b>0.42</b>	0.068	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.068	"	"	"	"	"	"	
delta-BHC	ND	0.068	"	"	"	"	"	"	
Chlordane	ND	0.68	"	"	"	"	"	"	
4,4'-DDD	ND	0.14	"	"	"	"	"	"	
4,4'-DDE	ND	0.14	"	"	"	"	"	"	
4,4'-DDT	ND	0.14	"	"	"	"	"	"	
Dieldrin	ND	0.14	"	"	"	"	"	"	
Endosulfan I	ND	0.068	"	"	"	"	"	"	
Endosulfan II	ND	0.14	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.14	"	"	"	"	"	"	
Endrin	ND	0.14	"	"	"	"	"	"	
Endrin aldehyde	ND	0.14	"	"	"	"	"	"	
Heptachlor	ND	0.068	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.068	"	"	"	"	"	"	
Methoxychlor	ND	0.68	"	"	"	"	"	"	
Toxaphene	ND	1.4	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		82 %		43-147	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		81 %		43-139	"	"	"	"	

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090820 Project Number: PES10090820 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0357 COC #:
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## Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10090820-07A (SA-189-S5) (CTI0357-07) Aqueous    Sampled: 09/07/10 11:59    Received: 09/09/10 10:45</b>									
Endrin ketone	ND	0.012	µg/L	1	CT06728	09/09/10	09/14/10	EPA 8081A	
Hexachlorobenzene	ND	0.012	"	"	"	"	"	"	
Aldrin	ND	0.067	"	"	"	"	"	"	
alpha-BHC	ND	0.067	"	"	"	"	"	"	
<b>beta-BHC</b>	<b>0.94</b>	0.067	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.067	"	"	"	"	"	"	
delta-BHC	ND	0.067	"	"	"	"	"	"	
Chlordane	ND	0.67	"	"	"	"	"	"	
4,4'-DDD	ND	0.13	"	"	"	"	"	"	
4,4'-DDE	ND	0.13	"	"	"	"	"	"	
4,4'-DDT	ND	0.13	"	"	"	"	"	"	
Dieldrin	ND	0.13	"	"	"	"	"	"	
Endosulfan I	ND	0.067	"	"	"	"	"	"	
Endosulfan II	ND	0.13	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.13	"	"	"	"	"	"	
Endrin	ND	0.13	"	"	"	"	"	"	
Endrin aldehyde	ND	0.13	"	"	"	"	"	"	
Heptachlor	ND	0.067	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.067	"	"	"	"	"	"	
Methoxychlor	ND	0.67	"	"	"	"	"	"	
Toxaphene	ND	1.3	"	"	"	"	"	"	
<hr/>									
Surrogate: Tetrachloro-meta-xylene		65 %		43-147	"	"	"	"	
Surrogate: Decachlorobiphenyl		86 %		43-139	"	"	"	"	

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090820 Project Number: PES10090820 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0357 COC #:
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## Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch CT06728 - EPA 3510B GCNV

#### Blank (CT06728-BLK1)

Prepared: 09/09/10 Analyzed: 09/14/10

Endrin ketone	ND	0.0092	µg/L							
Hexachlorobenzene	ND	0.0092	"							
Aldrin	ND	0.050	"							
alpha-BHC	ND	0.050	"							
beta-BHC	ND	0.050	"							
gamma-BHC (Lindane)	ND	0.050	"							
delta-BHC	ND	0.050	"							
Chlordane	ND	0.50	"							
4,4'-DDD	ND	0.10	"							
4,4'-DDE	ND	0.10	"							
4,4'-DDT	ND	0.10	"							
Dieldrin	ND	0.10	"							
Endosulfan I	ND	0.050	"							
Endosulfan II	ND	0.10	"							
Endosulfan sulfate	ND	0.10	"							
Endrin	ND	0.10	"							
Endrin aldehyde	ND	0.10	"							
Heptachlor	ND	0.050	"							
Heptachlor epoxide	ND	0.050	"							
Methoxychlor	ND	0.50	"							
Toxaphene	ND	1.0	"							

Surrogate: Tetrachloro-meta-xylene

0.200

"

0.250

80

43-147

Surrogate: Decachlorobiphenyl

0.196

"

0.250

79

43-139

#### LCS (CT06728-BS1)

Prepared: 09/09/10 Analyzed: 09/14/10

Aldrin	0.405	0.050	µg/L	0.500		81	50-130			
gamma-BHC (Lindane)	0.320	0.050	"	0.500		64	50-130			
4,4'-DDT	0.350	0.10	"	0.500		70	50-134			
Dieldrin	0.452	0.10	"	0.500		90	48-129			
Endrin	0.627	0.10	"	0.500		125	30-147			
Heptachlor	0.412	0.050	"	0.500		82	34-137			

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090820 Project Number: PES10090820 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0357 COC #:
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## Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch CT06728 - EPA 3510B GCNV

#### LCS (CT06728-BS1)

Prepared: 09/09/10 Analyzed: 09/14/10

Surrogate: Tetrachloro-meta-xylene	0.204		µg/L	0.250		81	43-147			
Surrogate: Decachlorobiphenyl	0.206		"	0.250		82	43-139			

#### LCS Dup (CT06728-BS1)

Prepared: 09/09/10 Analyzed: 09/14/10

Aldrin	0.423	0.050	µg/L	0.500		85	50-130	4	30	
gamma-BHC (Lindane)	0.290	0.050	"	0.500		58	50-130	10	30	
4,4'-DDT	0.381	0.10	"	0.500		76	50-134	8	30	
Dieldrin	0.494	0.10	"	0.500		99	48-129	9	30	
Endrin	0.686	0.10	"	0.500		137	30-147	9	30	
Heptachlor	0.441	0.050	"	0.500		88	34-137	7	30	
Surrogate: Tetrachloro-meta-xylene	0.208		"	0.250		83	43-147			
Surrogate: Decachlorobiphenyl	0.166		"	0.250		66	43-139			

# CALIFORNIA LABORATORY SERVICES

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09/16/10 14:54

Alpha Analytical, Inc.-Sparks  
255 Glendale Ave.; Suite 21  
Sparks, NV 89431

Project: PES10090820  
Project Number: PES10090820  
Project Manager: Reyna Vallejo

**CLS Work Order #: CTI0357**  
COC #:

## 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

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CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742    [www.californialab.com](http://www.californialab.com)    916-638-7301    Fax: 916-638-4510

Billing Information :

# CHAIN-OF-CUSTODY RECORD

NV **41** Page: 1 of 3

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10090820

Report Due By : 5:00 PM On : 15-Sep-10

*Perchlorate due 9-9-10*

EDD Required : No

Sampled by : CL

Cooler Temp 2 °C Samples Received 08-Sep-10 Date Printed 08-Sep-10

Report Attention Phone Number Email Address  
Cindy Schreier (916) 939-7300 x data@primavenvironmental.com

Client: Prina Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762  
PO :

Client's COC # : 32780, 32782, 32785 Job : NGENM-TR-FL  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests										Sample Remarks
					300_g(D)_w	300_o_w	314_w	8081_w	ALKALINITY_w	AMMONIA_w	METALS_A	METALS_D			
PES10090820-01A	NGEM-TRON-FL-SA-189-S2	AQ 09/04/10 11:59	11	3	5	Br, Cl, F, PO4, NO3, SO4	Br, Cl, F, PO4, NO3, SO4	Perchlorate	8081+Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	4.4 mS	
PES10090820-02A	NGEM-TRON-FL-RSAM-5-S6	AQ 09/04/10 12:25	11	3	5	Br, Cl, F, PO4, NO3, SO4	Br, Cl, F, PO4, NO3, SO4	Perchlorate	8081+Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	1,815 US	
PES10090820-03A	NGEM-TRON-FL-RSAM-6-S5	AQ 09/04/10 12:26	11	3	5	Br, Cl, F, PO4, NO3, SO4	Br, Cl, F, PO4, NO3, SO4	Perchlorate	8081+Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	1,329 US	
PES10090820-04A	SA-189-S3	AQ 09/05/10 11:59	11	4	5	Br, Cl, F, PO4, NO3, SO4	Br, Cl, F, PO4, NO3, SO4	Perchlorate	8081+Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	1,448 US	
PES10090820-05A	SA-189-S4	AQ 09/06/10 11:59	11	4	5	Br, Cl, F, PO4, NO3, SO4	Br, Cl, F, PO4, NO3, SO4	Perchlorate	8081+Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List		
PES10090820-06A	RSAM-5-S7	AQ 09/05/10 12:25	11	4	5	Br, Cl, F, PO4, NO3, SO4	Br, Cl, F, PO4, NO3, SO4	Perchlorate	8081+Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	1,699 US	

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/9/10. Chlorate subbed to Montgomery. Watson by Sac office. Uranium subbed to SEM. Metals are filtered. TOC pH=2. OK to analyze PO4 outside of 48 Hr holding time, per Cindy. For samples : 01A, 02A, 03A & 06A NO3 rec'd outside of 48 Hr holding time for an unreserved bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis. 8260 logged in for Chloroform only, per Cindy. Amended 9/8/10 15:50 to sub 8081 to CLS, per Randy.KM

Logged in by: *K Murray* Signature *K Murray* Print Name *K Murray* Company Alpha Analytical, Inc. Date/Time 9/8/10 1550

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# NV

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10090820

Report Due By : 5:00 PM On : 15-Sep-10

Client: Prina Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
Cindy Schreier (916) 939-7300 x data@prinaenviromental.com

EDD Required : No

Sampled by : CL

Cooler Temp Samples Received Date Printed  
2 °C 08-Sep-10 08-Sep-10

Client's COC # : 32780, 32782, 32785 Job : NGENM-TR-FL  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests				Sample Remarks				
				300 g(D) W	300_0_W	314_W	8081_W		ALKALINIT Y_W	AMMONIA W	METALS_A DD_DS	METALS_D S
PES10090820-07A	SA-189-S5	AQ 09/07/10 11:59	11 4 5	Br, Cl, F, PO4, NO3, SO4, Chlorate	Br, Cl, F, PO4, NO3, SO4, Chlorate	Perchlorate	8081+Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/9/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. TOC pH=2. OK to analyze PO4 outside of 48 Hr holding time, per Cindy. For samples : 01A, 02A, 03A & 06A NO3 rec'd outside of 48 Hr holding time for an unpressured bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis. 8260 logged in for Chloroform only, per Cindy. Amended 9/8/10 15:50 to sub 8081 to C.I.S. per Randy.KM

Logged in by: K Murray Signature K Murray Print Name K Murray Company Alpha Analytical, Inc. Date/Time 9/8/10 1530

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other



Billing Information :

# CHAIN-OF-CUSTODY RECORD

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

# NV

WorkOrder : PES10090820

Report Due By : 5:00 PM On : 15-Sep-10

Client: Palma Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention: Cindy Schreier  
Phone Number: (916) 939-7300 x  
Email Address: data@palmaenvironmental.com

EDD Required : No

Sampled by : CL

Client's COC # : 32780, 32782, 32785  
Job : NGENM-TR-FL  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Cooler Temp : 2 °C  
Samples Received : 08-Sep-10  
Date Printed : 08-Sep-10

Alpha Sample ID	Client Sample ID	Collection Matrix	Date	No. of Bottles			Requested Tests					Sample Remarks
				Alpha	Sub	TAT	TDS_W	TOC_W	TSS_W	VOC_W		
PES10090820-01A	NGEM-TRON-FL-SA-189-S2	AQ	09/04/10 11:59	11	3	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		4.4 mS
PES10090820-02A	NGEM-TRON-FL-RSAM-5-S6	AQ	09/04/10 12:25	11	3	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		1,815 US
PES10090820-03A	NGEM-TRON-FL-RSAM-6-S5	AQ	09/04/10 12:26	11	3	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		1,329 US
PES10090820-04A	SA-189-S3	AQ	09/05/10 11:59	11	4	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		1,448 US
PES10090820-05A	SA-189-S4	AQ	09/06/10 11:59	11	4	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		
PES10090820-06A	RSAM-5-S7	AQ	09/05/10 12:25	11	4	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		1,699 US
PES10090820-07A	SA-189-S5	AQ	09/07/10 11:59	11	4	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/9/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. TOC pH=2. OK to analyze PO4 outside of 48 Hr holding time, per Cindy. For samples: 01A, 02A, 03A & 06A NO3 rec'd outside of 48 Hr holding time for an unpresserved bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis. 8260 logged in for Chloroform only, per Cindy. Amended 9/8/10 1:50 to sub 8081 to CLS, per Randy, KM

Logged in by: K Murray Signature: K Murray Print Name: K Murray Company: Alpha Analytical, Inc. Date/Time: 9/8/10 1530

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

NV **REC-11** Page: 1 of 3

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10090820

Report Due By : 5:00 PM On : 15-Sep-10

*Perchlorate due 9-9-10*

EDD Required : No

Sampled by : CL

Cooler Temp 2 °C Samples Received 08-Sep-10 Date Printed 08-Sep-10

Client: Prima Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

PO :  
Client's COC # : 32780, 32782, 32785 Job : NGEM-TR-FL  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	300_0(Q) W	300_0_W	314_W	8081_W	Requested Tests	AMMONIA_W	METALS_A DD_DS	METALS_D S	Sample Remarks
PES10090820-01A	NGEM-TRON-FL-SA-189-S2	09/04/10 11:59	12 2 5	Br, Cl, F, PO4, NO3, SO4, Chlorate	Br, Cl, F, PO4, NO3, SO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	4.4 mS
PES10090820-02A	NGEM-TRON-FL-RSAM-5-S6	09/04/10 12:25	12 2 5	Br, Cl, F, PO4, NO3, SO4, Chlorate	Br, Cl, F, PO4, NO3, SO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	1.815 US
PES10090820-03A	NGEM-TRON-FL-RSAM-6-S5	09/04/10 12:26	12 2 5	Br, Cl, F, PO4, NO3, SO4, Chlorate	Br, Cl, F, PO4, NO3, SO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	1.329 US
PES10090820-04A	SA-189-S3	09/05/10 11:59	13 2 5	Br, Cl, F, PO4, NO3, SO4, Chlorate	Br, Cl, F, PO4, NO3, SO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	1.448 US
PES10090820-05A	SA-189-S4	09/06/10 11:59	13 2 5	Br, Cl, F, PO4, NO3, SO4, Chlorate	Br, Cl, F, PO4, NO3, SO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	
PES10090820-06A	RSAM-5-S7	09/05/10 12:25	13 2 5	Br, Cl, F, PO4, NO3, SO4, Chlorate	Br, Cl, F, PO4, NO3, SO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	1.699 US

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/9/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. TOC pH=2. OK to analyze PO4 outside of 48 Hr holding time, per Cindy. For samples: 01A, 02A, 03A & 06A NO3 rec'd outside of 48 Hr holding time for an unpresserved bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis. 8260 logged in for Chloroform only, per Cindy.

Signature: *C. Murray* Print Name: C. Murray Company: Alpha Analytical, Inc. Date/Time: 9/8/10 10:10

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# NV FORM 41

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10090820  
Report Due By : 5:00 PM On : 15-Sep-10

Client: Prima Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

EDD Required : No

Sampled by : CL

Client's COC # : 32780, 32782, 32785 Job : NGENM-TR-FL Date Printed : 08-Sep-10  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates Cooler Temp : 2 °C Samples Received : 08-Sep-10

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests	Sample Remarks
PES10090820-07A	SA-189-S5	AQ 09/07/10 11:59	13 2 5	300_Q(D)_W Br, Cl, F, PO4, NO3, SO4, Chlorate 300_0_W Br, Cl, F, PO4, NO3, SO4, Chlorate 314_W Perchlorate 8081_W 8081, Hexachloro benzene ALKALINITY_W Total HCO3, Hydroxide AMMONIA_W NH3 METALS_A_DD_DS METALS_DS METALS_S Uranium, Dissolved Special List	

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/9/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. TOC pH=2. OK to analyze PO4 outside of 48 Hr holding time, per Cindy. For samples : 01A, 02A, 03A & 06A NO3 rec'd outside of 48 Hr holding time for an unpreserved bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis. 8260 logged in for Chloroform only, per Cindy.

Logged in by: K Murray Signature K Murray Print Name K Murray Company Alpha Analytical, Inc. Date/Time 9/8/10 10:0

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

Page: 3 of 3

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : PES10090820**  
**Report Due By : 5:00 PM On : 15-Sep-10**

Client: Prima Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention: Cindy Schreier  
Phone Number: (916) 939-7300 x  
Email Address: data@primaenvironmental.com

EDD Required : No

Sampled by : CL

Client's COC # : 32780, 32782, 32785 Job : NGENM-TR-FL

Cooler Temp : 2 °C Samples Received : 08-Sep-10 Date Printed : 08-Sep-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles	Alpha Sub	TAT	Requested Tests					Sample Remarks
						TDS_w	TOC_w	TSS_w	VOC_w	Chloroform_N	
PES10090820-01A	NGEM-TRON-FL-SA-189-S2	09/04/10 11:59	12	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		4.4 mS
PES10090820-02A	NGEM-TRON-FL-RSAM-5-S6	09/04/10 12:25	12	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		1,815 US
PES10090820-03A	NGEM-TRON-FL-RSAM-6-S5	09/04/10 12:26	12	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		1,329 US
PES10090820-04A	SA-189-S3	09/05/10 11:59	13	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		1,448 US
PES10090820-05A	SA-189-S4	09/06/10 11:59	13	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		
PES10090820-06A	RSAM-5-S7	09/05/10 12:25	13	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		1,699 US
PES10090820-07A	SA-189-S5	09/07/10 11:59	13	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N		

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/9/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. TOC pH=2. OK to analyze PO4 outside of 48 Hr holding time, per Cindy. For samples : 01A, 02A, 03A & 06A NO3 rec'd outside of 48 Hr holding time for an unpreserved bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis. 8260 logged in for Chloroform only, per Cindy.

Logged in by: K Murray Signature: K Murray Print Name: K Murray Company: Alpha Analytical, Inc. Date/Time: 9/8/10 10:10

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information:**

Comp: **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: 6070 Robert J. Mathews Parkway, Suite 300  
 Address: El Dorado Hills, CA 95762  
 City: PH: 916-939-7300  
 Phone: FAX: 916-939-7398



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?**  
 AZ  CA  NV  WA   
 ID  OR  OTHER   
**DOD Site** 32780  
 Page # 1 of 3

Consultant / Client Name: **NGEM-TR-FL** Job Name: **NGEM-TR-FL**  
 Address: \_\_\_\_\_ Report Attention / Project Manager: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_ Name: \_\_\_\_\_  
 E-mail: **data@primaenvironmental.com**  
 Phone: \_\_\_\_\_

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Office Only)	Sample Description	TAT	Field Filtered	# Containers**	Perchlorate (314)	Alk - Total, bicarb NaOH	Ammonia/NH4	Anions	Chlorate	Metals (6020)	IDS	REMARKS
1157	9/4/10	AQ		PES10090820-01	NGEM-TRON-FL-SA-189 S2	24hr	N	3V	X							Anions: B, Cl, F, P, Pb, Mg, Mn, Ni, U
1225	9/4/10				NGEM-TRON-FL-RSAM-5-S6		N	3V	X							
1226	9/4/10				NGEM-TRON-FL-RSAM-6-S5		N	3V	X							
1157	9/6/10				SA-189-S3		N	3V	X							
1159	9/6/10				SA-189-S4		N	3V	X							
1225	9/5/10				RSAM-5-S7		N	3V	X							
1157	9/4/10	AQ			NGEM-TRON-FL-SA-189 S2	5day		10	X	X	X	X	X	X		
1225	9/4/10				NGEM-TRON-FL-RSAM-5-S6			10	X	X	X	X	X	X		
1226	9/4/10				NGEM-TRON-FL-RSAM-6-S5			10	X	X	X	X	X	X		
1159	9/5/10				SA-189-S3			11	X	X	X	X	X	X		
1157	9/6/10				SA-189-S4			11	X	X	X	X	X	X		
1225	9/5/10				RSAM-5-S7			11	X	X	X	X	X	X		

**ADDITIONAL INSTRUCTIONS:**

Okay to measure P04 out of hold time just note on report. See page 2 for Conductivity measurements

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: SE

Relinquished by: (Signature/Affiliation) [Signature] / PRIMA Received by: (Signature/Affiliation) [Signature] / PRIMA Date: 9-2-10 Time: 1400  
 Relinquished by: (Signature/Affiliation) [Signature] / PRIMA Received by: (Signature/Affiliation) [Signature] / PRIMA Date: 9/8/10 Time: 0930  
 Relinquished by: (Signature/Affiliation) \_\_\_\_\_ Received by: (Signature/Affiliation) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* - L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**Billing Information:**

Compar **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: — 5070 Robert J. Mathews Parkway, Suite 300  
 Address: El Dorado Hills, CA 95762  
 City, St: **PH: 916-939-7300**  
 Phone f **FAX: 916-939-7398**



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?**  
 AZ  CA  NV  WA   
 ID  OR  OTHER

**DOD Site** 32782  
 Page # 2 of 3  
 CGS

Address		City, State, Zip		Job # <b>NGEM-TR-FL</b>		Job Name		Report Attention / Project Manager		Name:		Email: <b>data@primaenvironmental.com</b>		Phone: —	
Time Sampled	Date Sampled	Matrix* See key Below	P.O. #	Lab ID Number	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required		Data Validation Level: III or IV		EDD / EDF? YES ___ NO ___	
1159	9/4/10	AQ		RES10090820-01		NGEM-TRON-FL-SA 189 S2	5d		10	TOC (9060) TSS 8081a+ hexachlorobenzene VOCs - 8260		Cond: 4.4mS		REMARKS	
1225	9/4/10					NGEM-TRON-FL-RSAM-5 S10			10			1,815µS			
1224	9/4/10					NGEM-TRON-FL-RSAM-6 S5			10			1,329µS			
1159	9/5/10					SA-189- S3			11			1,448µS			
1159	9/6/10					SA-189- S4			11			1,699µS			
1225	9/5/10	V				RSAM-5- S7			11						
1159	9/7/10	AQ				SA-189- S5	5d		11						

**ADDITIONAL INSTRUCTIONS:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: Bobbi (ALPHA)

Relinquished by: (Signature/Affiliation) <u>Bobbi (ALPHA)</u>	Received by: (Signature/Affiliation) <u>Bobbi (ALPHA)</u>	Date: 9-7-10	Time: 1400
Relinquished by: (Signature/Affiliation) <u>Bobbi 9-7-10 1600</u>	Received by: (Signature/Affiliation) <u>Charney 1441</u>	Date: 9/6/10	Time: 0930
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* - L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**Billing Information:**

Compa **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: **5070 Robert J. Mathews Parkway, Suite 300**  
 Address: **El Dorado Hills, CA 95762**  
 City, St: **PH: 916-939-7300**  
 Phone f **FAX: 916-939-7398**



**Samples Collected From Which State?**  
 AZ  CA  NV  WA   
 ID  OR  OTHER   
**DOD Site** 32785  
 Page # 3 of 3

City, State, Zip \_\_\_\_\_  
 Address \_\_\_\_\_  
 Job # \_\_\_\_\_ Job Name \_\_\_\_\_  
 Report Attention / Project Manager \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Email: **data@primaenvironmental.com**  
 Phone: \_\_\_\_\_

Time Sampled	Date Sampled	Matrix* See Key Below	PO #	Lab ID Number (Use Only)	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required	EDD / EDR? YES ___ NO ___	Global ID #	REMARKS
1151	9/7/10	AD		RES10090820-07		SA-189 S5	24hr	N	3V	Perchlorate (314) Alkalinity total, bicarb OH- Ammonia Anions Chlorate Metals (6020) TDS			Anions: Br, Cl, F, PO4, NO3, SO4 Metals (field filtered) As, B, Ca, Cr, Co, Fe, K, Pb, Mg, Mn, U, Ni
						SA-189 S5							

ONLY USE LAB

**ADDITIONAL INSTRUCTIONS:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: [Signature]

Relinquished by: (Signature/Affiliation) <u>[Signature]</u> PRIMA	Received by: (Signature/Affiliation) <u>[Signature]</u> (AIMA)	Date: 9-7-10	Time: 9:27-10
Relinquished by: (Signature/Affiliation) <u>[Signature]</u> 9-7-10 1600	Received by: (Signature/Affiliation) <u>[Signature]</u>	Date: 9/8/10	Time: 0930

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/09/10

Job: NGEM-TRON-FL

Anions by IC  
EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: SA-189-S6				
Lab ID: PES10090920-01A	Fluoride	ND X	13 mg/L	09/09/10 10:43 09/09/10 20:31
Date Sampled 09/08/10 12:00	Chloride	86	50 mg/L	09/09/10 10:43 09/09/10 20:31
	Bromide	ND X	13 mg/L	09/09/10 10:43 09/09/10 20:31
	Nitrate (NO3) - N	ND X	13 mg/L	09/09/10 10:43 09/09/10 20:31
	Phosphate, ortho - P	ND X	50 mg/L	09/09/10 10:43 09/09/10 20:31
	Sulfate (SO4)	260	50 mg/L	09/09/10 10:43 09/09/10 20:31

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

9/16/10

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/09/10

Job: NGEM-TRON-FL

Perchlorate by Ion Chromatography  
EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: SA-189-S6				
Lab ID: PES10090920-01A Perchlorate	54.7	2.00 µg/L	09/09/10 12:28	09/09/10 14:38
Date Sampled 09/08/10 12:00				

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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9/10/10

**Report Date**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/09/10

Job: NGEM-TRON-FL

Alkalinity  
SM2320B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: SA-189-S6				
Lab ID : PES10090920-01A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	160	20 mg/L	09/10/10
Date Sampled 09/08/10 12:00	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/10/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	160	20 mg/L	09/10/10

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

9/16/10

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/09/10

Job: NGEM-TRON-FL

### Ammonia as Nitrogen SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: SA-189-S6				
Lab ID: PES10090920-01A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/13/10	09/13/10
Date Sampled 09/08/10 12:00				

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

<sup>8</sup>  
9/16/10

**Report Date**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/09/10

Job: NGEM-TRON-FL

Dissolved Metals by ICPMS  
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID: SA-189-S6					
Lab ID : PES10090920-01A	Boron (B), Dissolved	3.3	0.10 mg/L	09/13/10 16:13	09/14/10
Date Sampled 09/08/10 12:00	Sodium (Na), Dissolved	240	0.50 mg/L	09/13/10 16:13	09/14/10
	Magnesium (Mg), Dissolved	7.9	0.50 mg/L	09/13/10 16:13	09/14/10
	Potassium (K), Dissolved	3.1	0.50 mg/L	09/13/10 16:13	09/14/10
	Calcium (Ca), Dissolved	24	0.50 mg/L	09/13/10 16:13	09/14/10
	Chromium (Cr), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Iron (Fe), Dissolved	ND	0.10 mg/L	09/13/10 16:13	09/14/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10
	Arsenic (As), Dissolved	0.080	0.0020 mg/L	09/13/10 16:13	09/14/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/13/10 16:13	09/14/10

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

*e*  
9/16/10

**Report Date**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/09/10

Job: NGEM-TRON-FL

### Total Dissolved Solids (TDS) SM2540C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: SA-189-S6				
Lab ID : PES10090920-01A Solids, Total Dissolved (TDS)	680	10 mg/L	09/13/10	09/13/10
Date Sampled 09/08/10 12:00				

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

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9/16/10

**Report Date**



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Prima Environmental  
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El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/09/10

Job: NGEM-TRON-FL

Total Organic Carbon as NonPurgeable Organic Carbon  
EPA Method SW9060 / SM5310C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: SA-189-S6				
Lab ID: PES10090920-01A Total Organic Carbon	4.2	2.0 mg/L	09/08/10 08:58	09/09/10
Date Sampled 09/08/10 12:00				

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

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9/16/10

**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/09/10

Job: NGEM-TRON-FL

Total Suspended Solids  
SM2540D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: SA-189-S6 Lab ID: PES10090920-01A Date Sampled 09/08/10 12:00	Solids, Total Suspended (TSS) ND	2.5 mg/L	09/13/10	09/13/10

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

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9/16/10

**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/09/10

Job: NGEM-TRON-FL

### Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID :	SA-189-S6				
Lab ID :	PES10090920-01A	Chloroform	1.0 µg/L	09/13/10	09/13/10
Date Sampled	09/08/10 12:00				

ND = Not Detected

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9/16/10

**Report Date**





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## VOC Sample Preservation Report

**Work Order:** PES10090920

**Job:** NGEM-TRON-FL

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
10090920-01A	SA-189-S6	Aqueous	2

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**9/16/10**  
**Report Date**

*Page 1 of 1*



# Alpha Analytical, Inc.

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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090920

### Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **23**

Batch ID: **25013**

Analysis Date: **09/09/2010 11:58**

Sample ID: **MB-25013**

Units : **mg/L**

Run ID: **IC\_1\_100909A**

Prep Date: **09/09/2010 10:43**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	ND	0.25								
Chloride	ND	0.5								
Bromide	ND	0.25								
Nitrate (NO3) - N	ND	0.25								
Phosphate, ortho - P	ND	0.5								
Sulfate (SO4)	ND	0.5								

### Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **24**

Batch ID: **25013**

Analysis Date: **09/09/2010 13:30**

Sample ID: **LFB-25013**

Units : **mg/L**

Run ID: **IC\_1\_100909A**

Prep Date: **09/09/2010 10:43**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.45	0.25	5		109	90	110			
Chloride	49.4	0.5	50		99	90	110			
Bromide	5.26	0.25	5		105	90	110			
Nitrate (NO3) - N	5.41	0.25	5		108	90	110			
Phosphate, ortho - P	5.51	0.5	5		110	90	110			
Sulfate (SO4)	105	0.5	100		105	90	110			

### Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **32**

Batch ID: **25013**

Analysis Date: **09/09/2010 16:49**

Sample ID: **10090940-12ALFM**

Units : **mg/L**

Run ID: **IC\_1\_100909A**

Prep Date: **09/09/2010 10:43**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	4.63	0.25	5	0.25	88	80	120			
Chloride	77.3	0.5	50	41.53	72	80	120			M2
Bromide	5.34	0.25	5	0.246	102	80	120			
Nitrate (NO3) - N	5.4	0.25	5	0	108	80	120			
Phosphate, ortho - P	4.94	0.5	5	0	99	80	120			
Sulfate (SO4)	139	0.5	100	55.52	84	80	120			

### Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **33**

Batch ID: **25013**

Analysis Date: **09/09/2010 17:07**

Sample ID: **10090940-12ALFMD**

Units : **mg/L**

Run ID: **IC\_1\_100909A**

Prep Date: **09/09/2010 10:43**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	4.94	0.25	5	0.25	94	80	120	4.634	6.5(15)	
Chloride	79.1	0.5	50	41.53	75	80	120	77.31	2.2(15)	M2
Bromide	5.66	0.25	5	0.246	108	80	120	5.335	5.9(15)	
Nitrate (NO3) - N	5.47	0.25	5	0	109	80	120	5.402	1.3(15)	
Phosphate, ortho - P	4.8	0.5	5	0	96	80	120	4.938	2.9(15)	
Sulfate (SO4)	142	0.5	100	55.52	86	80	120	139.4	1.8(15)	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:  
24-Sep-10

## QC Summary Report

Work Order:  
10090920

### Method Blank

Type: **MBLK** Test Code: **EPA Method 314.0**

File ID: **14**

Batch ID: **25016**

Analysis Date: **09/09/2010 13:24**

Sample ID: **MB-25016**

Units : **µg/L**

Run ID: **IC\_3\_100909A**

Prep Date: **09/09/2010 12:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	ND		2							

### Laboratory Fortified Blank

Type: **LFB** Test Code: **EPA Method 314.0**

File ID: **15**

Batch ID: **25016**

Analysis Date: **09/09/2010 13:43**

Sample ID: **LFB-25016**

Units : **µg/L**

Run ID: **IC\_3\_100909A**

Prep Date: **09/09/2010 12:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	25.4		2	25	102	85	115			

### Sample Matrix Spike

Type: **LFM** Test Code: **EPA Method 314.0**

File ID: **19**

Batch ID: **25016**

Analysis Date: **09/09/2010 14:56**

Sample ID: **10090920-01ALFM**

Units : **µg/L**

Run ID: **IC\_3\_100909A**

Prep Date: **09/09/2010 12:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	87.6		2	25	54.69	132	80	120		M1

### Sample Matrix Spike Duplicate

Type: **LFMD** Test Code: **EPA Method 314.0**

File ID: **20**

Batch ID: **25016**

Analysis Date: **09/09/2010 15:15**

Sample ID: **10090920-01ALFMD**

Units : **µg/L**

Run ID: **IC\_3\_100909A**

Prep Date: **09/09/2010 12:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	91		2	25	54.69	145	80	120	87.58	3.8(15) M1

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.



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Date:  
15-Sep-10

## QC Summary Report

Work Order:  
10090920

### Laboratory Control Spike

Type: LCS

Test Code: SM2320B

File ID:

Batch ID: W0910AL

Analysis Date: 09/10/2010 12:10

Sample ID: LCS-W0910AL

Units : mg/L

Run ID: WETLAB\_100910C

Prep Date: 09/10/2010 12:10

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	264.9	10	250		106	80	120			
Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	264.9	10	250		106	80	120			
Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	265	10	250		106	80	120			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090920

### Method Blank

Type **MBLK** Test Code: **SM4500-NH3D**

File ID:		Batch ID: <b>W0913AM</b>	Analysis Date: <b>09/13/2010 09:46</b>
Sample ID: <b>MBLK-W0913AM</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100913A</b>	Prep Date: <b>09/13/2010 09:46</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Nitrogen, Ammonia (As N)	ND	0.1	

### Laboratory Control Spike

Type **LCS** Test Code: **SM4500-NH3D**

File ID:		Batch ID: <b>W0913AM</b>	Analysis Date: <b>09/13/2010 09:40</b>
Sample ID: <b>LCS-W0913AM</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100913A</b>	Prep Date: <b>09/13/2010 09:40</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Nitrogen, Ammonia (As N)	4.83	0.1	5 97 70 130

### Sample Matrix Spike

Type **MS** Test Code: **SM4500-NH3D**

File ID:		Batch ID: <b>W0913AM</b>	Analysis Date: <b>09/13/2010 09:53</b>
Sample ID: <b>10090320-01AMS</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100913A</b>	Prep Date: <b>09/13/2010 09:53</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Nitrogen, Ammonia (As N)	214	10	50 180 68 65 138

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM4500-NH3D**

File ID:		Batch ID: <b>W0913AM</b>	Analysis Date: <b>09/13/2010 09:56</b>
Sample ID: <b>10090320-01AMSD</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100913A</b>	Prep Date: <b>09/13/2010 09:56</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Nitrogen, Ammonia (As N)	202	10	50 180 44 65 138 214 5.8(20) M2

### Comments:

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M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:  
15-Sep-10

## QC Summary Report

Work Order:  
10090920

### Method Blank

Type: **MBLK** Test Code: **EPA Method 200.8**

File ID: **091310.B\079\_M.D\**

Batch ID: **25033**

Analysis Date: **09/14/2010 00:19**

Sample ID: **MB-25033**

Units : **mg/L**

Run ID: **ICP/MS\_100913B**

Prep Date: **09/13/2010 16:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	ND	0.1								
Sodium (Na), Dissolved	ND	0.5								
Magnesium (Mg), Dissolved	ND	0.5								
Potassium (K), Dissolved	ND	0.5								
Calcium (Ca), Dissolved	ND	0.5								
Chromium (Cr), Dissolved	ND	0.005								
Manganese (Mn), Dissolved	ND	0.005								
Iron (Fe), Dissolved	ND	0.1								
Cobalt (Co), Dissolved	ND	0.005								
Arsenic (As), Dissolved	ND	0.002								
Lead (Pb), Dissolved	ND	0.005								

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method 200.8**

File ID: **091310.B\080\_M.D\**

Batch ID: **25033**

Analysis Date: **09/14/2010 00:25**

Sample ID: **LCS-25033**

Units : **mg/L**

Run ID: **ICP/MS\_100913B**

Prep Date: **09/13/2010 16:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.052	0.1	0.058		90	80	120			
Sodium (Na), Dissolved	5.17	0.5	5		103	80	120			
Magnesium (Mg), Dissolved	5.17	0.5	5		103	80	120			
Potassium (K), Dissolved	5.18	0.5	5		104	80	120			
Calcium (Ca), Dissolved	5.18	0.5	5		104	80	120			
Chromium (Cr), Dissolved	0.0568	0.005	0.05		114	80	120			
Manganese (Mn), Dissolved	0.0533	0.005	0.05		107	80	120			
Iron (Fe), Dissolved	5.44	0.1	5		109	80	120			
Cobalt (Co), Dissolved	0.055	0.005	0.05		110	80	120			
Arsenic (As), Dissolved	0.0514	0.002	0.05		103	80	120			
Lead (Pb), Dissolved	0.0486	0.005	0.05		97	80	120			

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method 200.8**

File ID: **091310.B\085\_SS.D\**

Batch ID: **25033**

Analysis Date: **09/14/2010 00:53**

Sample ID: **10090820-07AMS**

Units : **mg/L**

Run ID: **ICP/MS\_100913B**

Prep Date: **09/13/2010 16:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	3.44	0.1	0.058	3.683	-420	75	125			M3
Sodium (Na), Dissolved	222	0.5	5	228.9	-140	75	125			M3
Magnesium (Mg), Dissolved	12.6	0.5	5	8.266	87	75	125			
Potassium (K), Dissolved	8.51	0.5	5	3.063	109	75	125			
Calcium (Ca), Dissolved	30	0.5	5	25.83	83	75	125			
Chromium (Cr), Dissolved	0.0554	0.005	0.05	0	111	75	125			
Manganese (Mn), Dissolved	0.0492	0.005	0.05	0	98	75	125			
Iron (Fe), Dissolved	4.99	0.2	5	0	99.8	75	125			
Cobalt (Co), Dissolved	0.0508	0.005	0.05	0	102	75	125			
Arsenic (As), Dissolved	0.12	0.002	0.05	0.07253	95	75	125			
Lead (Pb), Dissolved	0.0491	0.005	0.05	0	98	75	125			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method 200.8**

File ID: **091310.B\086\_SS.D\**

Batch ID: **25033**

Analysis Date: **09/14/2010 00:59**

Sample ID: **10090820-07AMSD**

Units : **mg/L**

Run ID: **ICP/MS\_100913B**

Prep Date: **09/13/2010 16:13**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	3.62	0.1	0.058	3.683	-100	75	125	3.437	5.3(20)	M3
Sodium (Na), Dissolved	223	0.5	5	228.9	-120	75	125	221.9	0.4(20)	M3
Magnesium (Mg), Dissolved	12.8	0.5	5	8.266	90	75	125	12.63	1.3(20)	
Potassium (K), Dissolved	8.15	0.5	5	3.063	102	75	125	8.509	4.3(20)	
Calcium (Ca), Dissolved	29.6	0.5	5	25.83	76	75	125	29.97	1.1(20)	
Chromium (Cr), Dissolved	0.0535	0.005	0.05	0	107	75	125	0.05544	3.6(20)	
Manganese (Mn), Dissolved	0.048	0.005	0.05	0	96	75	125	0.04923	2.5(20)	
Iron (Fe), Dissolved	4.95	0.2	5	0	99	75	125	4.992	0.9(20)	
Cobalt (Co), Dissolved	0.0506	0.005	0.05	0	101	75	125	0.05079	0.5(20)	
Arsenic (As), Dissolved	0.121	0.002	0.05	0.07253	97	75	125	0.1201	0.9(20)	
Lead (Pb), Dissolved	0.0478	0.005	0.05	0	96	75	125	0.04911	2.7(20)	



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**Date:**

*15-Sep-10*

## QC Summary Report

**Work Order:**

10090920

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**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
15-Sep-10

## QC Summary Report

Work Order:  
10090920

### Method Blank

Type: **MBLK** Test Code: **SM2540C**

File ID: Batch ID: **W0910DS** Analysis Date: **09/13/2010 00:00**

Sample ID: **MBLK-W0910DS** Units : mg/L Run ID: **WETLAB\_100910D** Prep Date: **09/13/2010 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	ND	10								

### Laboratory Control Spike

Type: **LCS** Test Code: **SM2540C**

File ID: Batch ID: **W0910DS** Analysis Date: **09/13/2010 00:00**

Sample ID: **LCS-W0910DS** Units : mg/L Run ID: **WETLAB\_100910D** Prep Date: **09/13/2010 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Dissolved (TDS)	93	10	100		93	80	120			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.





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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090920

### Method Blank

Type **MBLK** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>25005</b>	Analysis Date: <b>09/08/2010 11:20</b>							
Sample ID: <b>MBLK-25005</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100908A</b>	Prep Date: <b>09/08/2010 08:58</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	ND		1							

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>25005</b>	Analysis Date: <b>09/08/2010 11:45</b>							
Sample ID: <b>LCS-25005</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100908A</b>	Prep Date: <b>09/08/2010 08:58</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	4.52		1	5	90	74	126			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>25005</b>	Analysis Date: <b>09/10/2010 11:31</b>							
Sample ID: <b>10090720-02AMS</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100908A</b>	Prep Date: <b>09/08/2010 08:58</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	10.1		1	5	4.713	109	56	137		

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>25005</b>	Analysis Date: <b>09/10/2010 12:00</b>							
Sample ID: <b>10090720-02AMSD</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100908A</b>	Prep Date: <b>09/08/2010 08:58</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	10.5		1	5	4.713	115	56	137	10.14	3.4(20)

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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Date:  
15-Sep-10

## QC Summary Report

Work Order:  
10090920

### Method Blank

Type: <b>MBLK</b>	Test Code: <b>SM2540D</b>	Batch ID: <b>W0910SS</b>	Analysis Date: <b>09/13/2010 00:00</b>
File ID:	Run ID: <b>WETLAB_100910E</b>	Prep Date: <b>09/13/2010 00:00</b>	
Sample ID: <b>MBLK-W0910SS</b>	Units : <b>mg/L</b>		
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Solids, Total Suspended (TSS)	ND	2.5	

### Laboratory Control Spike

Type: <b>LCS</b>	Test Code: <b>SM2540D</b>	Batch ID: <b>W0910SS</b>	Analysis Date: <b>09/13/2010 00:00</b>
File ID:	Run ID: <b>WETLAB_100910E</b>	Prep Date: <b>09/13/2010 00:00</b>	
Sample ID: <b>LCS-W0910SS</b>	Units : <b>mg/L</b>		
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Solids, Total Suspended (TSS)	76	2.5	100 76 50 140

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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Date:  
15-Sep-10

## QC Summary Report

Work Order:  
10090920

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **10091304.D**

Batch ID: **MS12W0913A**

Analysis Date: **09/13/2010 10:32**

Sample ID: **MBLK MS12W0913A**

Units: **µg/L**

Run ID: **MSD\_12\_100913A**

Prep Date: **09/13/2010 10:32**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	ND	1								
Surr: 1,2-Dichloroethane-d4	11.4		10		114	70	130			
Surr: Toluene-d8	9.73		10		97	70	130			
Surr: 4-Bromofluorobenzene	9.01		10		90	70	130			

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **10091303.D**

Batch ID: **MS12W0913A**

Analysis Date: **09/13/2010 10:10**

Sample ID: **LCS MS12W0913A**

Units: **µg/L**

Run ID: **MSD\_12\_100913A**

Prep Date: **09/13/2010 10:10**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	10.5	1	10		105	80	120			
Surr: 1,2-Dichloroethane-d4	11.6		10		116	70	130			
Surr: Toluene-d8	9.59		10		96	70	130			
Surr: 4-Bromofluorobenzene	9.68		10		97	70	130			

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **10091316.D**

Batch ID: **MS12W0913A**

Analysis Date: **09/13/2010 15:07**

Sample ID: **10090904-01AMS**

Units: **µg/L**

Run ID: **MSD\_12\_100913A**

Prep Date: **09/13/2010 15:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	51.1	2.5	50	0	102	67	130			
Surr: 1,2-Dichloroethane-d4	57		50		114	70	130			
Surr: Toluene-d8	46.6		50		93	70	130			
Surr: 4-Bromofluorobenzene	48.1		50		96	70	130			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **10091317.D**

Batch ID: **MS12W0913A**

Analysis Date: **09/13/2010 15:29**

Sample ID: **10090904-01AMSD**

Units: **µg/L**

Run ID: **MSD\_12\_100913A**

Prep Date: **09/13/2010 15:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	51.9	2.5	50	0	104	67	130	51.07	1.6(20)	
Surr: 1,2-Dichloroethane-d4	55.8		50		112	70	130			
Surr: Toluene-d8	48.3		50		97	70	130			
Surr: 4-Bromofluorobenzene	49.6		50		99	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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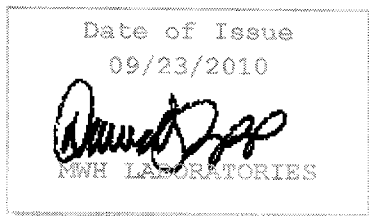
*A Division of MWH Americas, Inc.*

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Laboratory Report**

for

Alpha Analytical, Inc.  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attention: Reyna Vallejo  
Fax: 775-355-0406



Report#: 343072  
Project: SUBCONTRACT  
Group: Chlorate

DST: David S Tripp  
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.



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**Laboratory**  
**Hits Report: 343072**

**Alpha Analytical, Inc.**  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

Samples Received on:  
09/09/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
09/21/2010 03:50	Chlorate by IC	<u>SA-189-S6</u>	39		ug/L	10



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**Alpha Analytical, Inc.**

Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

**Laboratory Data**

**Report: 343072**

Samples Received on:

09/09/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>SA-189-S6 (201009090158)</b>						<b>Sampled on 09/08/2010 1200</b>		
Variable ID: PES10090920-01A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/21/2010	03:50	569892	(EPA 300.0)	Chlorate by IC	39	ug/L	10	1



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Alpha Analytical, Inc.  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

**Laboratory Comments**  
**Report: #343072**



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**Laboratory**  
**QC Summary: 343072**

Alpha Analytical, Inc.

---

**QC Ref # 569892 - Disinfection ByProducts by 300.0**  
201009090158      SA-189-S6

**Analysis Date: 09/21/2010**  
Analyzed by: LUPE





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Laboratory  
QC Report: 343072

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 569892 - Disinfection ByProducts by 300.0 by EPA 300.0</b>					<b>Analysis Date: 09/20/2010</b>				
LCS1	Bromide		100	101	ug/L	101	(90-110)		
LCS2	Bromide		100	119	ug/L	<u>119</u>	(90-110)	20	16
MBLK	Bromide			<5.0	ug/L				
MRL_CHK	Bromide		5.0	4.94	ug/L	99	(50-150)		
MS_201009090293	Bromide	9.1	50	60.1	ug/L	102	(80-120)		
MS_201009150644	Bromide	250	50	304	ug/L	99	(80-120)		
MSD_201009090293	Bromide	9.1	50	60.0	ug/L	102	(80-120)	15	0.0
MSD_201009150644	Bromide	250	50	304	ug/L	98	(80-120)	15	0.31
LCS1	Chlorate by IC		200	198	ug/L	99	(90-110)		
LCS2	Chlorate by IC		200	195	ug/L	97	(90-110)	20	1.5
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	11.3	ug/L	113	(75-125)		
MS_201009090293	Chlorate by IC	ND	100	98.7	ug/L	99	(80-120)		
MS_201009150644	Chlorate by IC	230	100	332	ug/L	100	(80-120)		
MSD_201009090293	Chlorate by IC	ND	100	101	ug/L	101	(80-120)	15	2.3
MSD_201009150644	Chlorate by IC	230	100	334	ug/L	102	(80-120)	15	2.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
Criteria for MS and Dup are advisory only, batch control is based on LCS or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



750 Royal Oaks Drive Suite 100, Monrovia, Ca 91016  
Phone 626-386-1100/Fax: 626-386-1101

**Acknowledgement of Samples Received**

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attn: Reyna Vallejo  
Phone: 775-355-1044

Customer Code: ALPHA-NV  
Group #: 343072  
Project #: SUBCONTRACT  
Sample Group: Chlorate  
Project Manager: David S Tripp  
Phone: (626) 386-1158  
PO# PES10090920

The following samples were received from you on **September 09, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201009090158	SA-189-S6	08-Sep-2010 1200
Variable ID: PES10090920-01A		
Chlorate by IC		RUSH

**Test Description**

# CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 16, 2010

CLS Work Order #: CTI0358  
COC #:

Reyna Vallejo  
Alpha Analytical, Inc.-Sparks  
255 Glendale Ave.; Suite 21  
Sparks, NV 89431

**Project Name: PES10090920**

Enclosed are the results of analyses for samples received by the laboratory on 09/09/10 10:45. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.  
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

# CALIFORNIA LABORATORY SERVICES

Page 2 of 5

09/16/10 14:49

Alpha Analytical, Inc.-Sparks  
255 Glendale Ave.; Suite 21  
Sparks, NV 89431

Project: PES10090920  
Project Number: PES10090920  
Project Manager: Reyna Vallejo

CLS Work Order #: CTI0358  
COC #:

## Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10090920-01A (SA-189-S6) (CTI0358-01) Aqueous</b> <b>Sampled: 09/08/10 12:00</b> <b>Received: 09/09/10 10:45</b>									
Endrin ketone	ND	0.0076	µg/L	1	CT06728	09/09/10	09/14/10	EPA 8081A	
Hexachlorobenzene	ND	0.0076	"	"	"	"	"	"	
Aldrin	ND	0.041	"	"	"	"	"	"	
alpha-BHC	ND	0.041	"	"	"	"	"	"	
<b>beta-BHC</b>	<b>0.73</b>	0.041	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.041	"	"	"	"	"	"	
delta-BHC	ND	0.041	"	"	"	"	"	"	
Chlordane	ND	0.41	"	"	"	"	"	"	
4,4'-DDD	ND	0.082	"	"	"	"	"	"	
4,4'-DDE	ND	0.082	"	"	"	"	"	"	
4,4'-DDT	ND	0.082	"	"	"	"	"	"	
Dieldrin	ND	0.082	"	"	"	"	"	"	
Endosulfan I	ND	0.041	"	"	"	"	"	"	
Endosulfan II	ND	0.082	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.082	"	"	"	"	"	"	
Endrin	ND	0.082	"	"	"	"	"	"	
Endrin aldehyde	ND	0.082	"	"	"	"	"	"	
Heptachlor	ND	0.041	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.041	"	"	"	"	"	"	
Methoxychlor	ND	0.41	"	"	"	"	"	"	
Toxaphene	ND	0.82	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

84 %

43-147

"

"

"

"

Surrogate: Decachlorobiphenyl

89 %

43-139

"

"

"

"

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090920 Project Number: PES10090920 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0358 COC #:
--	---	-------------------------------------

## Organochlorine Pesticides by EPA Method 8081A - Quality Control

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

### Batch CT06728 - EPA 3510B GCNV

#### Blank (CT06728-BLK1)

Prepared: 09/09/10 Analyzed: 09/14/10

Endrin ketone	ND	0.0092	µg/L							
Hexachlorobenzene	ND	0.0092	"							
Aldrin	ND	0.050	"							
alpha-BHC	ND	0.050	"							
beta-BHC	ND	0.050	"							
gamma-BHC (Lindane)	ND	0.050	"							
delta-BHC	ND	0.050	"							
Chlordane	ND	0.50	"							
4,4'-DDD	ND	0.10	"							
4,4'-DDE	ND	0.10	"							
4,4'-DDT	ND	0.10	"							
Dieldrin	ND	0.10	"							
Endosulfan I	ND	0.050	"							
Endosulfan II	ND	0.10	"							
Endosulfan sulfate	ND	0.10	"							
Endrin	ND	0.10	"							
Endrin aldehyde	ND	0.10	"							
Heptachlor	ND	0.050	"							
Heptachlor epoxide	ND	0.050	"							
Methoxychlor	ND	0.50	"							
Toxaphene	ND	1.0	"							
Surrogate: Tetrachloro-meta-xylene	0.200		"	0.250		80	43-147			
Surrogate: Decachlorobiphenyl	0.196		"	0.250		79	43-139			

#### LCS (CT06728-BS1)

Prepared: 09/09/10 Analyzed: 09/14/10

Aldrin	0.405	0.050	µg/L	0.500		81	50-130			
gamma-BHC (Lindane)	0.320	0.050	"	0.500		64	50-130			
4,4'-DDT	0.350	0.10	"	0.500		70	50-134			
Dieldrin	0.452	0.10	"	0.500		90	48-129			
Endrin	0.627	0.10	"	0.500		125	30-147			
Heptachlor	0.412	0.050	"	0.500		82	34-137			

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10090920 Project Number: PES10090920 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0358 COC #:
--	---	-------------------------------------

## Organochlorine Pesticides by EPA Method 8081A - Quality Control

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

### Batch CT06728 - EPA 3510B GCNV

#### LCS (CT06728-BS1)

Prepared: 09/09/10 Analyzed: 09/14/10

Surrogate: Tetrachloro-meta-xylene	0.204		µg/L	0.250		81	43-147			
Surrogate: Decachlorobiphenyl	0.206		"	0.250		82	43-139			

#### LCS Dup (CT06728-BSD1)

Prepared: 09/09/10 Analyzed: 09/14/10

Aldrin	0.423	0.050	µg/L	0.500		85	50-130	4	30	
gamma-BHC (Lindane)	0.290	0.050	"	0.500		58	50-130	10	30	
4,4'-DDT	0.381	0.10	"	0.500		76	50-134	8	30	
Dieldrin	0.494	0.10	"	0.500		99	48-129	9	30	
Endrin	0.686	0.10	"	0.500		137	30-147	9	30	
Heptachlor	0.441	0.050	"	0.500		88	34-137	7	30	
Surrogate: Tetrachloro-meta-xylene	0.208		"	0.250		83	43-147			
Surrogate: Decachlorobiphenyl	0.166		"	0.250		66	43-139			

# CALIFORNIA LABORATORY SERVICES

Page 5 of 5

09/16/10 14:49

Alpha Analytical, Inc.-Sparks  
255 Glendale Ave.; Suite 21  
Sparks, NV 89431

Project: PES10090920  
Project Number: PES10090920  
Project Manager: Reyna Vallejo

**CLS Work Order #: CTI0358**  
COC #:

## 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

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CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742    [www.californialab.com](http://www.californialab.com)    916-638-7301    Fax: 916-638-4510



# Laboratory Report

## Report ID: 108137

**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/16/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

Dear Reyna Vallejo,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

**Approved By:**

**Date:**

A handwritten signature in black ink, appearing to be 'John C. Seher', is written over a horizontal line.

Sierra Environmental Monitoring, Inc.

9/16/2010

**This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.**



**Laboratory Report**  
**Report ID: 108137**



**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/16/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Analysis Report***

<b>Sample ID:</b>	<b>Customer Sample ID</b>	<b>Date Sampled</b>	<b>Time Sampled</b>	<b>Date Received</b>			
S201009-0547	PES10090920-01 - SA-189-S6	9/8/2010	12:00 PM	9/9/2010			
<b>Parameter</b>	<b>Method</b>	<b>Result</b>	<b>Units</b>	<b>Reporting Limit</b>	<b>Analyst</b>	<b>Date Analyzed</b>	<b>Data Flag</b>
Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/13/2010	
Uranium - ICP-MS	EPA 200.8	0.012	mg/L	0.002	Li	9/14/2010	

***Data Flag Legend:***



**Laboratory Report**  
**Report ID: 108137**

**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/16/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Quality Control Report***

<i>Parameter</i>	<i>LCS, % Recovery</i>	<i>MS, % Recovery</i>	<i>MSD, % Recovery</i>	<i>RPD, %</i>	<i>Method Blank</i>
Uranium - ICP-MS	99.0	107.0	107.0	0.00	<0.002 mg/L

**Legend:** *LCS- Laboratory Control Standard*      *MS- Matrix Spike*      *MSD- Matrix Spike Duplicate*  
*RPD- Relative Percent Difference*

Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**NV**

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : PES10090920**  
**Report Due By : 5:00 PM On : 16-Sep-10**  
*Perchlorate due 9-10-10*

Client: Prima Environmental  
 5070 Robert J. Mathews Parkway  
 Suite 300  
 El Dorado Hills, CA 95762

Report Attention: Phone Number: (916) 939-7300 x  
 Email Address: data@primaenvironmental.com

PO :  
 Client's COC # : 32788, 32787

Job : NGENM-TFRON-FL  
 Requested Tests: 300\_0(D)\_W, 300\_0\_W, 314\_W, 8081\_W, ALKALINITY\_W, AMMONIA\_W, METALS\_A\_DD\_DS, METALS\_D\_S

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	Requested Tests	Sample Remarks
PES10090920-01A	SA-189-S6	AQ 09/08/10 12:00	11 3 5	Br, Cl, F, PO4, NO3, SO4, Chlorate Br, Cl, F, PO4, NO3, SO4, Chlorate Perchlorate 8081+Hexachlorobenzene Total, HCO3, Hydroxide NH3 Uranium, Dissolved Special List	

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/10/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. 8081 subbed to CLS, per Randy. Metals are filtered. TOC pH=2.

Logged in by: K Murray Signature: K Murray Print Name: K Murray Company: Alpha Analytical, Inc. Date/Time: 9/9/10 0950

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# NV

# READY!

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10090920

Report Due By : 5:00 PM On : 16-Sep-10

Client:

Prima Environmental  
5070 Robert J. Matthews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention

Phone Number

Email Address

Cindy Schreier

(916) 939-7300 x

data@primaenviromental.com

EDD Required : No

Sampled by : CL

Cooler Temp

Samples Received

Date Printed

2 °C

09-Sep-10

09-Sep-10

PO :

Client's COC # : 32788, 32787

Job : NGENM-TRON-FL

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	Requested Tests				Sample Remarks	
					TDS_W	TOC_W	TSS_W	VOC_W		
PES10090920-01A	SA-189-S6	AQ 09/08/10 12:00	11	3	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N	

**Comments:**

Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/10/10. Chlorate subbed to Montgomery/Watson by Sac office. Uranium subbed to SEM. 8081 subbed to CLS, per Randy. Metals are filtered. TOC pH=2.1.

Logged in by:

*K Murray*

Signature

Print Name

Company

Date/Time

Alpha Analytical, Inc.

9/9/10 0950

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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**Bill/Inr Information:**

Comf: **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: **5070 Robert J. Mathews Parkway, Suite 300**  
 Address: **El Dorado Hills, CA 95762**  
 City, State: **PH: 916-939-7300**  
**FAX: 916-939-7398**  
 Phone:



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?**  
 AZ \_\_\_\_\_ CA \_\_\_\_\_ NV \_\_\_\_\_ WA \_\_\_\_\_  
 ID \_\_\_\_\_ OR \_\_\_\_\_ OTHER \_\_\_\_\_

**DOD Site** 32788  
 Page # 1 of 2

Consultant / Client Name

Job #

Job Name

NAEM-Stream-FL

Report Attention / Project Manager

Cindy Schreier

data@primaenvironmental.com

**Data Validation**  
 Level: III or IV

EDD / EDP? YES \_\_\_\_\_ NO \_\_\_\_\_

Global ID # \_\_\_\_\_

REMARKS

Time Sampled	Date Sampled	Matrix* See Key Below	PO #	Lab ID Number (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required	REMARKS
1200	9/9/10	AQ		PES10090920-01	SA-189-56	24hr		3-V	<input checked="" type="checkbox"/> Perchlorate (314) <input checked="" type="checkbox"/> Alkalinity (301.1) <input checked="" type="checkbox"/> Anions (300) <input checked="" type="checkbox"/> TDS (160.1) <input checked="" type="checkbox"/> Ammonia (350.3) <input checked="" type="checkbox"/> Chlorate (300) <input checked="" type="checkbox"/> Metals (6020)	metals = As, B, Ca, Cr, Co, Fe, K, Pb, Mg, Mn, Na Alkalinity = total HCO <sub>3</sub> , hydroxide Anions: Br, Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , O-Pay *Chlorate to MW4 # 10090920
					SA-189-56					
					SA-189-56					
					02					

**ADDITIONAL INSTRUCTIONS:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: CE

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
<u>Catherine Ruggeri PRIMA</u>	<u>CE</u>	9-8-10	1400
<u>San Dulhane</u>	<u>Estunary PRM</u>	9/9/10	0945

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orho T-Teclar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**Billing Information:**

Com: **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: **5070 Robert J. Mathews Parkway, Suite 300**  
 Addr: **EI Dorado Hills, CA 95762**  
 City: **PH: 916-939-7300**  
 Phon **FAX: 916-939-7398**



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?**  
 AZ  CA  NV  WA   
 ID  OR  OTHER   
**DOD Site** \_\_\_\_\_ **Page #** 2 **of** 2

32787

Job # \_\_\_\_\_ Job Name NGEM-TRM-FL  
 Name: Cindy Scherer Report Attention / Project Manager  
 Email: \_\_\_\_\_  
 Phone: \_\_\_\_\_ data@primaenvironmental.com

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required				Data Validation		REMARKS	
									TOL (9060)	TSS (100.2)	SDSLa	Chloroform (5200)	Level: III or IV	EDD / EDF? YES ___ NO ___	Global ID # _____	
	9/8/10	AR		RES10090920-01	SA-189-Slc	5d		3x20L 1L	X	X	X	X				SDSLa = organochlorine pesticides + hexachlorobenzene

**ADDITIONAL INSTRUCTIONS:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: CS

Relinquished by: (Signature/Affiliation) Cynthia Scherer PRIMA  
 Received by: (Signature/Affiliation) Cynthia Scherer  
 Date: 9-8-10 Time: 7:40p

Relinquished by: (Signature/Affiliation) Van deBier 1500  
 Received by: (Signature/Affiliation) Kathryn 144  
 Date: 9/9/10 Time: 0945

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orho T-Teclat B-Brass P-Plastic OT-Other  
**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/14/10

Job: NGEM-TR-FL

Anions by IC  
EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TR-FL-RSAM-6-S6				
Lab ID: PES10091425-02A	Fluoride	ND X	13 mg/L	09/15/10 10:23 09/15/10 15:03
Date Sampled 09/14/10 14:00	Chloride	88	50 mg/L	09/15/10 10:23 09/15/10 15:03
	Bromide	ND X	13 mg/L	09/15/10 10:23 09/15/10 15:03
	Nitrate (NO3) - N	ND X	13 mg/L	09/15/10 10:23 09/15/10 15:03
	Phosphate, ortho - P	ND X	50 mg/L	09/15/10 10:23 09/15/10 15:03
	Sulfate (SO4)	350	50 mg/L	09/15/10 10:23 09/15/10 15:03

This replaces the report signed 9/17/10 due to a change in the concentrations, due to lab error.

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

9/21/10

Report Date



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/14/10

Job: NGEM-TR-FL

### Perchlorate by Ion Chromatography EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TR-FL-RSAM-5-S8</b> Lab ID : PES10091425-01A Perchlorate Date Sampled 09/14/10 14:00	14,300	2,000 µg/L	09/15/10 10:28	09/15/10
Client ID: <b>NGEM-TR-FL-RSAM-6-S6</b> Lab ID : PES10091425-02A Perchlorate Date Sampled 09/14/10 14:00	1,290	200 µg/L	09/15/10 10:28	09/15/10

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/16/10

Report Date





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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/14/10

Job: NGEM-TR-FL

Alkalinity  
SM2320B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TR-FL-RSAM-6-S6</b>				
Lab ID : PES10091425-02A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	260	20 mg/L	09/16/10
Date Sampled 09/14/10 14:00	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/16/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	260	20 mg/L	09/16/10

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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<sup>e</sup>  
9/17/10

**Report Date**



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/14/10

Job: NGEM-TR-FL

Ammonia as Nitrogen  
SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TR-FL-RSAM-6-S6				
Lab ID : PES10091425-02A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/17/10	09/17/10
Date Sampled 09/14/10 14:00				

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*e*  
9/17/10

**Report Date**



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/14/10

Job: NGEM-TR-FL

### Dissolved Metals by ICPMS EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
<b>Client ID: NGEM-TR-FL-RSAM-5-S8</b>					
Lab ID: PES10091425-01A	Boron (B), Dissolved	0.50	0.10 mg/L	09/16/10 09:33	09/17/10
Date Sampled 09/14/10 14:00	Sodium (Na), Dissolved	260	0.50 mg/L	09/16/10 09:33	09/17/10
	Magnesium (Mg), Dissolved	0.96	0.50 mg/L	09/16/10 09:33	09/17/10
	Potassium (K), Dissolved	12	0.50 mg/L	09/16/10 09:33	09/17/10
	Calcium (Ca), Dissolved	2.9	0.50 mg/L	09/16/10 09:33	09/17/10
	Chromium (Cr), Dissolved	0.11	0.0050 mg/L	09/16/10 09:33	09/17/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/16/10 09:33	09/17/10
	Iron (Fe), Dissolved	ND	0.10 mg/L	09/16/10 09:33	09/17/10
	Cobalt (Co), Dissolved	0.015	0.0050 mg/L	09/16/10 09:33	09/17/10
	Arsenic (As), Dissolved	0.15	0.0020 mg/L	09/16/10 09:33	09/17/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/16/10 09:33	09/17/10
<b>Client ID: NGEM-TR-FL-RSAM-6-S6</b>					
Lab ID: PES10091425-02A	Boron (B), Dissolved	1.5	0.10 mg/L	09/16/10 09:33	09/17/10
Date Sampled 09/14/10 14:00	Sodium (Na), Dissolved	140	0.50 mg/L	09/16/10 09:33	09/17/10
	Magnesium (Mg), Dissolved	19	0.50 mg/L	09/16/10 09:33	09/17/10
	Potassium (K), Dissolved	16	0.50 mg/L	09/16/10 09:33	09/17/10
	Calcium (Ca), Dissolved	73	0.50 mg/L	09/16/10 09:33	09/17/10
	Chromium (Cr), Dissolved	ND	0.0050 mg/L	09/16/10 09:33	09/17/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/16/10 09:33	09/17/10
	Iron (Fe), Dissolved	0.32	0.10 mg/L	09/16/10 09:33	09/17/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/16/10 09:33	09/17/10
	Arsenic (As), Dissolved	0.0067	0.0020 mg/L	09/16/10 09:33	09/17/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/16/10 09:33	09/17/10

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

✓  
9/17/10

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/14/10

Job: NGEM-TR-FL

Total Dissolved Solids (TDS)  
SM2540C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TR-FL-RSAM-6-S6				
Lab ID : PES10091425-02A Solids, Total Dissolved (TDS)	780	10 mg/L	09/16/10	09/16/10
Date Sampled 09/14/10 14:00				

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/17/10

**Report Date**



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/14/10

Job: NGEM-TR-FL

Total Organic Carbon as NonPurgeable Organic Carbon  
EPA Method SW9060 / SM5310C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TR-FL-RSAM-6-S6				
Lab ID : PES10091425-02A Total Organic Carbon	4.0	1.0 mg/L	09/17/10 11:33	09/17/10
Date Sampled 09/14/10 14:00				

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

Ⓟ

9/17/10

**Report Date**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/14/10

Job: NGEM-TR-FL

Total Suspended Solids  
SM2540D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TR-FL-RSAM-6-S6</b>				
Lab ID: PES10091425-02A Solids, Total Suspended (TSS)	ND	2.5 mg/L	09/17/10	09/17/10
Date Sampled 09/14/10 14:00				


ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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9/17/10

**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/14/10

Job: NGEM-TR-FL

### Volatile Organic Compounds (VOCs) EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : NGEM-TR-FL-RSAM-5-S8				
Lab ID : PES10091425-01A Chloroform	ND	1.0 µg/L	09/16/10	09/16/10
Date Sampled 09/14/10 14:00				
Client ID : NGEM-TR-FL-RSAM-6-S6				
Lab ID : PES10091425-02A Chloroform	ND	1.0 µg/L	09/16/10	09/16/10
Date Sampled 09/14/10 14:00				

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

  
9/17/10

**Report Date**



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---

## VOC Sample Preservation Report

**Work Order:** PES10091425

**Job:** NGEM-TR-FL

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
10091425-01A	NGEM-TR-FL-RSAM-5-S8	Aqueous	2
10091425-02A	NGEM-TR-FL-RSAM-6-S6	Aqueous	2

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**9/17/10**  
**Report Date**

*Page 1 of 1*





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Date:  
21-Sep-10

## QC Summary Report

Work Order:  
10091425

### Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **20**

Batch ID: **25046**

Analysis Date: **09/15/2010 11:58**

Sample ID: **MB-25046**

Units : **mg/L**

Run ID: **IC\_1\_100915A**

Prep Date: **09/15/2010 10:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	ND	0.25								
Chloride	ND	0.5								
Bromide	ND	0.25								
Nitrate (NO3) - N	ND	0.25								
Phosphate, ortho - P	ND	0.5								
Sulfate (SO4)	ND	0.5								

### Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **31**

Batch ID: **25046**

Analysis Date: **09/15/2010 15:23**

Sample ID: **LFB-25046**

Units : **mg/L**

Run ID: **IC\_1\_100915A**

Prep Date: **09/15/2010 10:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.47	0.25	5		109	90	110			
Chloride	49.9	0.5	50		99.8	90	110			
Bromide	5.23	0.25	5		105	90	110			
Nitrate (NO3) - N	5.27	0.25	5		105	90	110			
Phosphate, ortho - P	5.2	0.5	5		104	90	110			
Sulfate (SO4)	101	0.5	100		101	90	110			

### Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **24**

Batch ID: **25046**

Analysis Date: **09/15/2010 13:12**

Sample ID: **10091503-01ALFM**

Units : **mg/L**

Run ID: **IC\_1\_100915A**

Prep Date: **09/15/2010 10:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.3	0.25	5	0.3961	98	80	120			
Chloride	99.4	0.5	50	70.29	58	80	120			M2
Bromide	5.72	0.25	5	0	114	80	120			
Nitrate (NO3) - N	12.3	0.25	5	8.324	79	80	120			M2
Phosphate, ortho - P	5.56	0.5	5	0	111	80	120			
Sulfate (SO4)	172	0.5	100	98.39	74	80	120			M2

### Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **25**

Batch ID: **25046**

Analysis Date: **09/15/2010 13:31**

Sample ID: **10091503-01ALFMD**

Units : **mg/L**

Run ID: **IC\_1\_100915A**

Prep Date: **09/15/2010 10:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.36	0.25	5	0.3961	99	80	120	5.303	1.1(15)	
Chloride	102	0.5	50	70.29	63	80	120	99.4	2.6(15)	M2
Bromide	5.72	0.25	5	0	114	80	120	5.723	0.1(15)	
Nitrate (NO3) - N	12.6	0.25	5	8.324	86	80	120	12.29	2.7(15)	
Phosphate, ortho - P	5.86	0.5	5	0	117	80	120	5.556	5.3(15)	
Sulfate (SO4)	176	0.5	100	98.39	78	80	120	172.3	2.4(15)	M2

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:  
21-Sep-10

## QC Summary Report

Work Order:  
10091425

### Method Blank

Type **MBLK** Test Code: **EPA Method 314.0**

File ID: **14**

Batch ID: **25047**

Analysis Date: **09/15/2010 11:24**

Sample ID: **MB-25047**

Units : **µg/L**

Run ID: **IC\_3\_100915A**

Prep Date: **09/15/2010 10:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	ND	2								

### Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 314.0**

File ID: **15**

Batch ID: **25047**

Analysis Date: **09/15/2010 11:43**

Sample ID: **LFB-25047**

Units : **µg/L**

Run ID: **IC\_3\_100915A**

Prep Date: **09/15/2010 10:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	24.6	2	25		98	85	115			

### Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 314.0**

File ID: **25**

Batch ID: **25047**

Analysis Date: **09/16/2010 16:19**

Sample ID: **10091503-01ALFM**

Units : **µg/L**

Run ID: **IC\_3\_100915A**

Prep Date: **09/15/2010 10:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	23.7	2	25	0	95	80	120			

### Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 314.0**

File ID: **26**

Batch ID: **25047**

Analysis Date: **09/16/2010 16:38**

Sample ID: **10091503-01ALFMD**

Units : **µg/L**

Run ID: **IC\_3\_100915A**

Prep Date: **09/15/2010 10:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	24.6	2	25	0	98	80	120	23.7	3.8(15)	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
17-Sep-10

## QC Summary Report

Work Order:  
10091425

### Laboratory Control Spike

Type **LCS** Test Code: **SM2320B**

File ID:

Batch ID: **W0916AL**

Analysis Date: **09/16/2010 14:38**

Sample ID: **LCS-W0916AL**

Units : **mg/L**

Run ID: **WETLAB\_100916C**

Prep Date: **09/16/2010 14:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	295.1	10	250		118	80	120			
Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	295.1	10	250		118	80	120			
Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	295	10	250		118	80	120			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
17-Sep-10

## QC Summary Report

Work Order:  
10091425

### Method Blank

File ID:	Type	MBLK	Test Code:	SM4500-NH3D						
Sample ID:	Units :	mg/L	Run ID:	WETLAB_100913A						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	ND		0.1							

### Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM4500-NH3D						
Sample ID:	Units :	mg/L	Run ID:	WETLAB_100913A						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	4.83	0.1	5		97	70	130			

### Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM4500-NH3D						
Sample ID:	Units :	mg/L	Run ID:	WETLAB_100913A						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	214	10	50	180	68	65	138			

### Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM4500-NH3D						
Sample ID:	Units :	mg/L	Run ID:	WETLAB_100913A						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	202	10	50	180	44	65	138	214	5.8(20)	M2

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:  
21-Sep-10

## QC Summary Report

Work Order:  
10091425

### Method Blank

Type: **MBLK** Test Code: **EPA Method 200.8**

File ID: **091510.B\157\_M.D\**

Batch ID: **25055**

Analysis Date: **09/17/2010 09:11**

Sample ID: **MB-25055**

Units : **mg/L**

Run ID: **ICP/MS\_100915B**

Prep Date: **09/16/2010 09:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	ND	0.1								
Sodium (Na), Dissolved	ND	0.5								
Magnesium (Mg), Dissolved	ND	0.5								
Potassium (K), Dissolved	ND	0.5								
Calcium (Ca), Dissolved	ND	0.5								
Chromium (Cr), Dissolved	ND	0.005								
Manganese (Mn), Dissolved	ND	0.005								
Iron (Fe), Dissolved	ND	0.1								
Cobalt (Co), Dissolved	ND	0.005								
Arsenic (As), Dissolved	ND	0.002								
Lead (Pb), Dissolved	ND	0.005								

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method 200.8**

File ID: **091510.B\158\_M.D\**

Batch ID: **25055**

Analysis Date: **09/17/2010 09:56**

Sample ID: **LCS-25055**

Units : **mg/L**

Run ID: **ICP/MS\_100915B**

Prep Date: **09/16/2010 09:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.0499	0.1	0.058		86	80	120			
Sodium (Na), Dissolved	4.36	0.5	5		87	80	120			
Magnesium (Mg), Dissolved	4.42	0.5	5		88	80	120			
Potassium (K), Dissolved	5.09	0.5	5		102	80	120			
Calcium (Ca), Dissolved	5.18	0.5	5		104	80	120			
Chromium (Cr), Dissolved	0.0521	0.005	0.05		104	80	120			
Manganese (Mn), Dissolved	0.0533	0.005	0.05		107	80	120			
Iron (Fe), Dissolved	5.4	0.1	5		108	80	120			
Cobalt (Co), Dissolved	0.054	0.005	0.05		108	80	120			
Arsenic (As), Dissolved	0.0468	0.002	0.05		88	80	120			
Lead (Pb), Dissolved	0.0449	0.005	0.05		90	80	120			

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method 200.8**

File ID: **091510.B\163\_SS.D\**

Batch ID: **25055**

Analysis Date: **09/17/2010 09:45**

Sample ID: **10091425-01AMS**

Units : **mg/L**

Run ID: **ICP/MS\_100915B**

Prep Date: **09/16/2010 09:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.548	0.1	0.058	0.5034	77	75	125			
Sodium (Na), Dissolved	250	0.5	5	258.1	-160	75	125			M3
Magnesium (Mg), Dissolved	5.63	0.5	5	0.9594	93	75	125			
Potassium (K), Dissolved	17.7	0.5	5	12.28	108	75	125			
Calcium (Ca), Dissolved	7.85	0.5	5	2.89	99	75	125			
Chromium (Cr), Dissolved	0.16	0.005	0.05	0.1069	106	75	125			
Manganese (Mn), Dissolved	0.0525	0.005	0.05	0	105	75	125			
Iron (Fe), Dissolved	5.15	0.2	5	0	103	75	125			
Cobalt (Co), Dissolved	0.067	0.005	0.05	0.01495	104	75	125			
Arsenic (As), Dissolved	0.202	0.002	0.05	0.1518	101	75	125			
Lead (Pb), Dissolved	0.046	0.005	0.05	0	92	75	125			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method 200.8**

File ID: **091510.B\164\_SS.D\**

Batch ID: **25055**

Analysis Date: **09/17/2010 09:50**

Sample ID: **10091425-01AMSD**

Units : **mg/L**

Run ID: **ICP/MS\_100915B**

Prep Date: **09/16/2010 09:33**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.552	0.1	0.058	0.5034	84	75	125	0.5481	0.7(20)	
Sodium (Na), Dissolved	250	0.5	5	258.1	-160	75	125	250.3	0.0(20)	M3
Magnesium (Mg), Dissolved	5.74	0.5	5	0.9594	96	75	125	5.629	2.0(20)	
Potassium (K), Dissolved	17.8	0.5	5	12.28	109	75	125	17.69	0.3(20)	
Calcium (Ca), Dissolved	7.8	0.5	5	2.89	98	75	125	7.854	0.7(20)	
Chromium (Cr), Dissolved	0.16	0.005	0.05	0.1069	105	75	125	0.1597	0.1(20)	
Manganese (Mn), Dissolved	0.0541	0.005	0.05	0	108	75	125	0.05253	3.0(20)	
Iron (Fe), Dissolved	5.23	0.2	5	0	105	75	125	5.15	1.5(20)	
Cobalt (Co), Dissolved	0.0666	0.005	0.05	0.01495	103	75	125	0.06695	0.5(20)	
Arsenic (As), Dissolved	0.201	0.002	0.05	0.1518	99	75	125	0.2024	0.6(20)	
Lead (Pb), Dissolved	0.0466	0.005	0.05	0	93	75	125	0.04601	1.2(20)	



# *Alpha Analytical, Inc.*

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:**  
*21-Sep-10*

## QC Summary Report

**Work Order:**  
10091425

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.



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Date:  
17-Sep-10

## QC Summary Report

Work Order:  
10091425

### Method Blank

Type **MBLK** Test Code: **SM2540C**

File ID: Batch ID: **W0914DS** Analysis Date: **09/16/2010 00:00**  
Sample ID: **MBLK-W0914DS** Units : **mg/L** Run ID: **WETLAB\_100914B** Prep Date: **09/16/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) ND 10

### Laboratory Control Spike

Type **LCS** Test Code: **SM2540C**

File ID: Batch ID: **W0914DS** Analysis Date: **09/16/2010 00:00**  
Sample ID: **LCS-W0914DS** Units : **mg/L** Run ID: **WETLAB\_100914B** Prep Date: **09/16/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) 95 10 100 95 80 120

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
21-Sep-10

## QC Summary Report

Work Order:  
10091425

### Method Blank

Type **MBLK** Test Code: **EPA Method SW9060 / SM5310C**

File ID:			Batch ID: <b>25067</b>	Analysis Date: <b>09/17/2010 13:06</b>						
Sample ID: <b>MBLK-25067</b>	Units : <b>mg/L</b>		Run ID: <b>TOC_100917A</b>	Prep Date: <b>09/17/2010 11:33</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	ND		1							

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:			Batch ID: <b>25067</b>	Analysis Date: <b>09/17/2010 13:32</b>						
Sample ID: <b>LCS-25067</b>	Units : <b>mg/L</b>		Run ID: <b>TOC_100917A</b>	Prep Date: <b>09/17/2010 11:33</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	5.46		1	5	109	74	126			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:			Batch ID: <b>25067</b>	Analysis Date: <b>09/17/2010 19:41</b>						
Sample ID: <b>10091703-01AMS</b>	Units : <b>mg/L</b>		Run ID: <b>TOC_100917A</b>	Prep Date: <b>09/17/2010 11:33</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	6.84		1	5	2.228	92	56	137		

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW9060 / SM5310C**

File ID:			Batch ID: <b>25067</b>	Analysis Date: <b>09/17/2010 20:08</b>						
Sample ID: <b>10091703-01AMSD</b>	Units : <b>mg/L</b>		Run ID: <b>TOC_100917A</b>	Prep Date: <b>09/17/2010 11:33</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	7		1	5	2.228	95	56	137	6.844	2.3(20)

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
17-Sep-10

## QC Summary Report

Work Order:  
10091425

### Method Blank

Type **MBLK** Test Code: **SM2540D**

File ID: Batch ID: **W0910SS** Analysis Date: **09/13/2010 00:00**  
Sample ID: **MBLK-W0910SS** Units : **mg/L** Run ID: **WETLAB\_100910E** Prep Date: **09/13/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Suspended (TSS) ND 2.5

### Laboratory Control Spike

Type **LCS** Test Code: **SM2540D**

File ID: Batch ID: **W0910SS** Analysis Date: **09/13/2010 00:00**  
Sample ID: **LCS-W0910SS** Units : **mg/L** Run ID: **WETLAB\_100910E** Prep Date: **09/13/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Suspended (TSS) 76 2.5 100 76 50 140

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
21-Sep-10

## QC Summary Report

Work Order:  
10091425

### Method Blank

File ID: 10091607.D

Sample ID: MBLK MS15W0916A

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	ND	1								
Surr: 1,2-Dichloroethane-d4	9.87		10		99	70	130			
Surr: Toluene-d8	10.8		10		108	70	130			
Surr: 4-Bromofluorobenzene	10.7		10		107	70	130			

### Laboratory Control Spike

File ID: 10091603.D

Sample ID: LCS MS15W0916A

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	9.89	1	10		99	80	120			
Surr: 1,2-Dichloroethane-d4	9.49		10		95	70	130			
Surr: Toluene-d8	9.87		10		99	70	130			
Surr: 4-Bromofluorobenzene	9.93		10		99	70	130			

### Sample Matrix Spike

File ID: 10091610.D

Sample ID: 10091540-03AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	44.3	2.5	50	0	89	67	130			
Surr: 1,2-Dichloroethane-d4	49.1		50		98	70	130			
Surr: Toluene-d8	48.9		50		98	70	130			
Surr: 4-Bromofluorobenzene	47.1		50		94	70	130			

### Sample Matrix Spike Duplicate

File ID: 10091611.D

Sample ID: 10091540-03AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	44.5	2.5	50	0	89	67	130	44.34	0.4(20)	
Surr: 1,2-Dichloroethane-d4	50.1		50		100	70	130			
Surr: Toluene-d8	49		50		98	70	130			
Surr: 4-Bromofluorobenzene	48.1		50		96	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



**MWH**

**LABORATORIES**

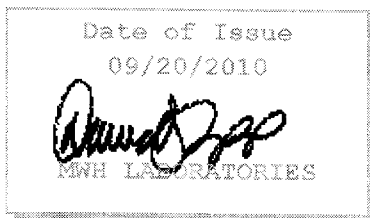
*A Division of MWH Americas, Inc.*

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

## Laboratory Report

for

Alpha Analytical, Inc.  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attention: Reyna Vallejo  
Fax: 775-355-0406



Report#: 343617  
Project: SUBCONTRACT  
Group: Chlorate

DST: David S Tripp  
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.



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750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
Hits Report: 343617

**Alpha Analytical, Inc.**  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

Samples Received on:  
09/15/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	<b>201009150386</b>	<b><u>NGEM-TR-FL-RSAM-5-S8</u></b>				
09/15/2010	13:29 Chlorate by IC		130		ug/L	10
	<b>201009150390</b>	<b><u>NGEM-TR-FL-RSAM-6-S6</u></b>				
09/15/2010	12:37 Chlorate by IC		49		ug/L	10
	<b>201009150391</b>	<b><u>NGEM-TR-FL-GW</u></b>				
09/15/2010	13:04 Chlorate by IC		25		ug/L	10



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Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Alpha Analytical, Inc.**

Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

**Laboratory Data  
Report: 343617**

Samples Received on:  
09/15/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b>NGEM-TR-FL-RSAM-5-S8 (201009150386)</b>						<b>Sampled on 09/14/2010 1400</b>		
Variable ID: PES10091425-01A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/15/2010	13:29	569176	(EPA 300.0)	Chlorate by IC	130	ug/L	10	1
<b>NGEM-TR-FL-RSAM-6-S6 (201009150390)</b>						<b>Sampled on 09/14/2010 1400</b>		
Variable ID: PES10091425-02A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/15/2010	12:37	569176	(EPA 300.0)	Chlorate by IC	49	ug/L	10	1
<b>NGEM-TR-FL-GW (201009150391)</b>						<b>Sampled on 09/14/2010 1300</b>		
Variable ID: PES10091425-03A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/15/2010	13:04	569176	(EPA 300.0)	Chlorate by IC	25	ug/L	10	1



**MWH**

**LABORATORIES**

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Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Alpha Analytical, Inc.  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

---

**Laboratory Comments**  
**Report: #343617**



**MWH**

**LABORATORIES**

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**Laboratory**  
**QC Summary: 343617**

Alpha Analytical, Inc.

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**QC Ref # 569176 - Disinfection ByProducts by 300.0**

**Analysis Date: 09/15/2010**

201009150386	NGEM-TR-FL-RSAM-5-S8
201009150390	NGEM-TR-FL-RSAM-6-S6
201009150391	NGEM-TR-FL-GW

Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE



MWH

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Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
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Laboratory
QC Report: 343617

Alpha Analytical, Inc.

Table with columns: QC Type, Analyte, Native, Spiked, Recovered, Units, Yield (%), Limits (%), RPD Limit (%), RPD%. Contains data for QC Ref# 569176 - Disinfection ByProducts by 300.0 by EPA 300.0, Analysis Date: 09/15/2010.

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.
(S) Indicates surrogate compound.
(I) Indicates internal standard compound.
RPD not calculated for LCS2 when different a concentration than LCS1 is used
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)





750 Royal Oaks Drive Suite 100, Monrovia, Ca 91016  
Phone 626-386-1100/Fax: 626-386-1101

### Acknowledgement of Samples Received

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attn: Reyna Vallejo  
Phone: 775-355-1044

Customer Code: ALPHA-NV

Group #: 343617

Project #: SUBCONTRACT

Sample Group: Chlorate

Project Manager: David S Tripp

Phone: (626) 386-1158

PO# PES10091425

The following samples were received from you on **September 15, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201009150386	NGEM-TR-FL-RSAM-5-S8 Variable ID: PES10091425-01A Chlorate by IC	14-Sep-2010 1400
	RUSH	
201009150390	NGEM-TR-FL-RSAM-6-S6 Variable ID: PES10091425-02A Chlorate by IC	14-Sep-2010 1400
	RUSH	
201009150391	NGEM-TR-FL-GW Variable ID: PES10091425-03A Chlorate by IC	14-Sep-2010 1300
	RUSH	

### Test Description

# CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 16, 2010

CLS Work Order #: CTI0558  
COC #:

Reyna Vallejo  
Alpha Analytical, Inc.-Sparks  
255 Glendale Ave.; Suite 21  
Sparks, NV 89431

**Project Name: PES10091425**

Enclosed are the results of analyses for samples received by the laboratory on 09/14/10 15:10. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.  
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

# CALIFORNIA LABORATORY SERVICES

Page 2 of 6

09/16/10 16:40

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10091425 Project Number: PES10091425 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0558 COC #:
--	---	-------------------------------------

## Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10091425-01A (NGEM-TR-FL-RSAM-5-S8) (CTI0558-01) Water Sampled: 09/14/10 14:00 Received: 09/14/10 15:10</b>									
Hexachlorobenzene	ND	0.0077	µg/L	1	CT06853	09/15/10	09/16/10	EPA 8081A	
Endrin ketone	ND	0.0077	"	"	"	"	"	"	
Aldrin	ND	0.042	"	"	"	"	"	"	
alpha-BHC	ND	0.042	"	"	"	"	"	"	
beta-BHC	ND	0.042	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.042	"	"	"	"	"	"	
delta-BHC	ND	0.042	"	"	"	"	"	"	
Chlordane	ND	0.42	"	"	"	"	"	"	
4,4'-DDD	ND	0.084	"	"	"	"	"	"	
4,4'-DDE	ND	0.084	"	"	"	"	"	"	
4,4'-DDT	ND	0.084	"	"	"	"	"	"	
Dieldrin	ND	0.084	"	"	"	"	"	"	
Endosulfan I	ND	0.042	"	"	"	"	"	"	
Endosulfan II	ND	0.084	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.084	"	"	"	"	"	"	
Endrin	ND	0.084	"	"	"	"	"	"	
Endrin aldehyde	ND	0.084	"	"	"	"	"	"	
Heptachlor	ND	0.042	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.042	"	"	"	"	"	"	
Methoxychlor	ND	0.42	"	"	"	"	"	"	
Toxaphene	ND	0.84	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene 77 % 43-147 " " " "

Surrogate: Decachlorobiphenyl 84 % 43-139 " " " "

<b>PES10091425-02A (NGEM-TR-FL-RSAM-6-S6) (CTI0558-02) Water Sampled: 09/14/10 14:00 Received: 09/14/10 15:10</b>									
Hexachlorobenzene	ND	0.0077	µg/L	1	CT06853	09/15/10	09/16/10	EPA 8081A	
Endrin ketone	ND	0.0077	"	"	"	"	"	"	
Aldrin	ND	0.042	"	"	"	"	"	"	
alpha-BHC	ND	0.042	"	"	"	"	"	"	
beta-BHC	1.2	0.083	"	2	"	"	"	"	

CA DOHS ELAP Accreditation/Registration Number 1233

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10091425 Project Number: PES10091425 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0558 COC #:
--	---	-------------------------------------

## Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10091425-02A (NGEM-TR-FL-RSAM-6-S6) (CTI0558-02) Water Sampled: 09/14/10 14:00 Received: 09/14/10 15:10</b>									
gamma-BHC (Lindane)	ND	0.042	µg/L	1	CT06853	"	09/16/10	EPA 8081A	
delta-BHC	ND	0.042	"	"	"	"	"	"	
Chlordane	ND	0.42	"	"	"	"	"	"	
4,4'-DDD	ND	0.083	"	"	"	"	"	"	
4,4'-DDE	ND	0.083	"	"	"	"	"	"	
4,4'-DDT	ND	0.083	"	"	"	"	"	"	
Dieldrin	ND	0.083	"	"	"	"	"	"	
Endosulfan I	ND	0.042	"	"	"	"	"	"	
Endosulfan II	ND	0.083	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.083	"	"	"	"	"	"	
Endrin	ND	0.083	"	"	"	"	"	"	
Endrin aldehyde	ND	0.083	"	"	"	"	"	"	
Heptachlor	ND	0.042	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.042	"	"	"	"	"	"	
Methoxychlor	ND	0.42	"	"	"	"	"	"	
Mirex	ND	0.083	"	"	"	"	"	"	
Toxaphene	ND	0.83	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		70 %		43-147	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		98 %		43-139	"	"	"	"	

# CALIFORNIA LABORATORY SERVICES

Page 4 of 6

09/16/10 16:40

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10091425 Project Number: PES10091425 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0558 COC #:
--	---	-------------------------------------

## Organochlorine Pesticides by EPA Method 8081A - Quality Control

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

### Batch CT06853 - EPA 3510B GCNV

#### Blank (CT06853-BLK1)

Prepared: 09/15/10 Analyzed: 09/16/10

Endrin ketone	ND	0.0092	µg/L							
Hexachlorobenzene	ND	0.0092	"							
Aldrin	ND	0.050	"							
alpha-BHC	ND	0.050	"							
beta-BHC	ND	0.050	"							
gamma-BHC (Lindane)	ND	0.050	"							
delta-BHC	ND	0.050	"							
Chlordane	ND	0.50	"							
4,4'-DDD	ND	0.10	"							
4,4'-DDE	ND	0.10	"							
4,4'-DDT	ND	0.10	"							
Dieldrin	ND	0.10	"							
Endosulfan I	ND	0.050	"							
Endosulfan II	ND	0.10	"							
Endosulfan sulfate	ND	0.10	"							
Endrin	ND	0.10	"							
Endrin aldehyde	ND	0.10	"							
Heptachlor	ND	0.050	"							
Heptachlor epoxide	ND	0.050	"							
Methoxychlor	ND	0.50	"							
Mirex	ND	0.10	"							
Toxaphene	ND	1.0	"							

Surrogate: Tetrachloro-meta-xylene

0.190

"

0.250

76

43-147

Surrogate: Decachlorobiphenyl

0.224

"

0.250

90

43-139

#### LCS (CT06853-BS1)

Prepared: 09/15/10 Analyzed: 09/16/10

Aldrin	0.347	0.050	µg/L	0.500		69	50-130			
gamma-BHC (Lindane)	0.255	0.050	"	0.500		51	50-130			
4,4'-DDT	0.357	0.10	"	0.500		71	50-134			
Dieldrin	0.459	0.10	"	0.500		92	48-129			
Endrin	0.652	0.10	"	0.500		130	30-147			

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# CALIFORNIA LABORATORY SERVICES

Page 5 of 6

09/16/10 16:40

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10091425 Project Number: PES10091425 Project Manager: Reyna Vallejo	CLS Work Order #: CTI0558 COC #:
--	---	-------------------------------------

## Organochlorine Pesticides by EPA Method 8081A - Quality Control

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

### Batch CT06853 - EPA 3510B GCNV

LCS (CT06853-BS1)		Prepared: 09/15/10 Analyzed: 09/16/10								
Heptachlor	0.404	0.050	µg/L	0.500		81	34-137			
Surrogate: Tetrachloro-meta-xylene	0.205		"	0.250		82	43-147			
Surrogate: Decachlorobiphenyl	0.221		"	0.250		88	43-139			
LCS Dup (CT06853-BSD1)		Prepared: 09/15/10 Analyzed: 09/16/10								
Aldrin	0.392	0.050	µg/L	0.500		78	50-130	12	30	
gamma-BHC (Lindane)	0.263	0.050	"	0.500		53	50-130	3	30	
4,4'-DDT	0.386	0.10	"	0.500		77	50-134	8	30	
Dieldrin	0.491	0.10	"	0.500		98	48-129	7	30	
Endrin	0.703	0.10	"	0.500		141	30-147	7	30	
Heptachlor	0.443	0.050	"	0.500		89	34-137	9	30	
Surrogate: Tetrachloro-meta-xylene	0.205		"	0.250		82	43-147			
Surrogate: Decachlorobiphenyl	0.223		"	0.250		89	43-139			

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# CALIFORNIA LABORATORY SERVICES

Page 6 of 6

09/16/10 16:40

Alpha Analytical, Inc.-Sparks  
255 Glendale Ave.; Suite 21  
Sparks, NV 89431

Project: PES10091425  
Project Number: PES10091425  
Project Manager: Reyna Vallejo

**CLS Work Order #: CTI0558**  
COC #:

## 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

---

CA DOHS ELAP Accreditation/Registration Number 1233



# Laboratory Report

## Report ID: 108255

**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/17/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

Dear Reyna Vallejo,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

**Approved By:**

**Date:**

A handwritten signature in black ink, appearing to be 'J. Kobza', is written over a horizontal line.

Sierra Environmental Monitoring, Inc.

9/17/2010

**This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.**





**Laboratory Report**  
**Report ID: 108255**

**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/17/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Analysis Report***

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0882	PES10091425-01 - NGEM-TR-FL-RSAM-5-S8	9/14/2010	2:00 PM	9/15/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/15/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/16/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0883	PES10091425-02 - NGEM-TR-FL-RSAM-6-S6	9/14/2010	2:00 PM	9/15/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/15/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/16/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0884	PES10091425-03 - NGEM-TR-FL-GW	9/14/2010	1:00 PM	9/15/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/15/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/16/2010	

*Data Flag Legend:*



**Laboratory Report**  
**Report ID: 108255**

**Sierra  
 Environmental  
 Monitoring, Inc.**

Alpha Analytical  
 Attn: Reyna Vallejo  
 255 Glendale Avenue Suite 21  
 Sparks, NV 89431

**Date:** 9/17/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Quality Control Report***

<i>Parameter</i>	<i>LCS, % Recovery</i>	<i>MS, % Recovery</i>	<i>MSD, % Recovery</i>	<i>RPD, %</i>	<i>Method Blank</i>
Uranium - ICP-MS	99.0	104.0	106.0	0.95	<0.002 mg/L

**Legend:** *LCS- Laboratory Control Standard*      *MS- Matrix Spike*      *MSD- Matrix Spike Duplicate*  
*RPD- Relative Percent Difference*

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# NV

Client: Prima Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention: Phone Number: (916) 939-7300 x  
Cindy Schreier data@primaenvironmental.com

Alpha Analytical, Inc.  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10091425

Report Due By : 5:00 PM On : 17-Sep-10

*Perchlorate due 9-16-10*

EDD Required : No

Sampled by : CL

Cooler Temp : 2 °C Samples Received : 14-Sep-10 Date Printed : 15-Sep-10

Client's COC # : 32801, 32794 Job : NGENM-TR-FL

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub TAT	Requested Tests					Sample Remarks	
					300_0(D)_W	300_0_W	314_W	8081_W	ALKALINITY_W		AMMONIA_W
PES10091425-01A	NGEM-TR-FL-RSAM-5-S8	09/14/10 14:00	7	4	2	Chlorate	Perchlorate	8081+Hexachlorobenzene		Uranium, Dissolved	Special List
PES10091425-02A	NGEM-TR-FL-RSAM-6-S6	09/14/10 14:00	11	4	2	Br, Cl, F, PO4, NO3, SO4, Chlorate	Perchlorate	8081+Hexachlorobenzene	Total HCO3, Hydroxide	Uranium, Dissolved	Special List
PES10091425-03A	NGEM-TR-FL-GW	09/14/10 13:00	0	2	2	Chlorate	Chlorate			Uranium, Dissolved	

Comments: 48 HR TAT. Perchlorate on 24 HR TAT. due 9/16/10. Chain prelogged in order for Sac office to sub 8081 to CUS. Remaining samples rec'd 9/15/10. Security seals intact. Frozen ice. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals field filtered. TOC pH=L. High Conductivity. Sample containers do not have NGENM-TR-FL at the beginning of the ID-not enough room.

Signature: *K Murray* Print Name: *K Murray* Company: Alpha Analytical, Inc. Date/Time: 9/15/10 0940

Logged in by: *K Murray*

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**NV RECORD**

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : PES10091425**  
**Report Due By : 5:00 PM On : 17-Sep-10**

Client: Prima Environmental  
 5070 Robert J. Mathews Parkway  
 Suite 300  
 El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
 Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

EDD Required : No

Sampled by : CL

Cooler Temp 2 °C Samples Received 14-Sep-10 Date Printed 15-Sep-10

Client's COC # : 32801, 32794 Job : NGENM-TR-FL  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles			Requested Tests				Sample Remarks
			Alpha	Sub	TAT	TDS_W	TOC_W	TSS_W	VOC_W	
PES10091425-01A	NGEM-TR-FL-RSAM-5-S8	09/14/10 14:00	7	4	2				Chloroform_N	
PES10091425-02A	NGEM-TR-FL-RSAM-6-S6	09/14/10 14:00	11	4	2	TDS/TSS	TOC	TDS/TSS	Chloroform_N	
PES10091425-03A	NGEM-TR-FL-GW	09/14/10 13:00	0	2	2					

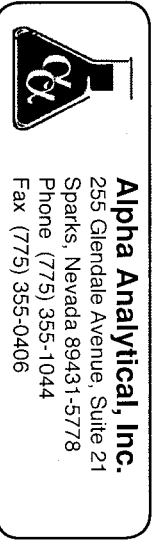
Comments: 48 HR TAT. Perchlorate on 24 HR TAT, due 9/16/10. Chain prelogged in order for Sac office to sub 8081 to CLS. Remaining samples rec'd 9/15/10. Security seals intact. Frozen ice. Chlorate sub'd to Montgomery Watson by Sac office. Uranium sub'd to SEM. Metals field filtered. TOC pH=1. High Conductivity. Sample containers do not have NGENM-TR-FL at the beginning of the ID-not enough room.

Logged in by: *K Murray* Signature *K Murray* Print Name *K Murray* Company Alpha Analytical, Inc. Date/Time 9/15/10 0940

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billings Information:**

Comp **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: 5070 Robert J. Matthews Pkwy, Ste 300  
 Address El Dorado Hills, CA 95762  
 City, s PH: 916-939-7300  
 Phone FAX: 916-939-7398



**Samples Collected From Which State?**  
 AZ  CA  NV  WA   
 ID  OR  OTHER

**DOD Site** 22801 of 2  
 Page # 1 of 2

Job # **NGEM-TR-FL** Job Name  
 Report Attention / Project Manager  
 Name: **Cindy Schreyer**  
 Email: **data@primaenvironmental.com**  
 Phone:

Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 P.O. # \_\_\_\_\_  
 Lab ID Number (Use Only) \_\_\_\_\_  
 Matrix\* See Key Below \_\_\_\_\_  
 Time Sampled \_\_\_\_\_ Date Sampled \_\_\_\_\_  
 Matrix\* See Key Below \_\_\_\_\_

Time Sampled	Date Sampled	Matrix* See Key Below	Lab ID Number (Use Only)	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Perchlorate (314)	Alk - Total, biaryl NaOH (301.0)	Ammonia / NH4 (3503)	Anions (300)	Chlorate (300)	Metals (6020)	TDS (160.1)	REMARKS
1400	9/14/10	AQ	RES10091425-01	01	NGEM-TR-FL-RSAM-5-58	24hr		3V	X							Anions: Br, Cl, F, P, NO3, SO4
				02	NGEM-TR-FL-RSAM-6-56	24hr		3V	X							Filtered: As, B, Pb, Mg, Mo, Ni, V
				03	NGEM-TR-FL-61W	2d		1P								Sample containers do not have beginning of the ID - Not enough room!

**ADDITIONAL INSTRUCTIONS:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: **SK**

Relinquished by: (Signature/Affiliation) **William Schreyer** **PELMA**  
 Received by: (Signature/Affiliation) **William Schreyer**  
 Date: **9-14-10** Time: **1600**

Relinquished by: (Signature/Affiliation) **William Schreyer** **PELMA**  
 Received by: (Signature/Affiliation) **William Schreyer**  
 Date: **9/15/10** Time: **0930**

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**Billing Information:**

Company **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: **5070 Robert J. Mathews Pkwy, Ste 300**  
 Address: **El Dorado Hills, CA 95762**  
 City, State: **PH: 916-939-7300**  
 Phone NI: **FAX: 916-939-7398**



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?**  
 AZ  CA  NV  WA   
 ID  OR  OTHER

**DOD Site** 32794  
 Page # 2 of 2

Job # \_\_\_\_\_ Job Name **NGEM-TR-FL**  
 Name: **Cindy Schreier** Report Attention / Project Manager  
 Email: **data@primaenvironmental.com**  
 Phone: \_\_\_\_\_

City, State, Zip \_\_\_\_\_  
 Address \_\_\_\_\_  
 Consultant / Client Name \_\_\_\_\_

Time Sampled \_\_\_\_\_ Date \_\_\_\_\_ Matrix\* See Key Below  
 P.O. # \_\_\_\_\_ Lab ID Number (Use Only) \_\_\_\_\_

Time Sampled	Date	Matrix* See Key Below	Lab ID Number (Use Only)	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required	REMARKS
1400	9/14/10	AQ	PE5/009/1425-01		NGEM-TR-FL-PSYM-S-SS	2d		3V, 2OT	TDC (9060) TSS (160.2) 808/a Chloroform (8200) (U) only (6020)	808/a = organochlorine pesticides + hexachlorobenzene
1400	↓	↓	FOR 02		NGEM-TR-FL-RSAM-b-SL	2d		3V, 3OT		high conductivity
1300	↓	↓	03		NGEM-TR-FL-GW	2d		1P		TSS for RSAM-b only 1/2 full
										LAB
										USE
										ONLY

**ADDITIONAL INSTRUCTIONS:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: [Signature]

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
<u>[Signature]</u>	<u>[Signature]</u>	9-14-10	11:30
<u>[Signature]</u>	<u>[Signature]</u>	9-15-10	09:30

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orho T-Tedlar B-Brass P-Plastic OT-Other  
**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.