



# 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 : 09/02/10

Job: NGEM-TRON-FL

### Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S3				
Lab ID : PES10090220-01A	Fluoride	ND X	130 mg/L	09/03/10 09:21 09/03/10 13:52
Date Sampled 09/01/10 14:30	Chloride	4,400	500 mg/L	09/03/10 09:21 09/07/10 12:29
	Bromide	ND X	130 mg/L	09/03/10 09:21 09/03/10 13:52
	Nitrate (NO3) - N	ND X	130 mg/L	09/03/10 09:21 09/03/10 13:52
	Phosphate, ortho - P	ND X	130 mg/L	09/03/10 09:21 09/03/10 13:52
	Sulfate (SO4)	6,500	500 mg/L	09/03/10 09:21 09/07/10 12:29
Client ID: NGEM-TRON-FL-RSAM-6-S2				
Lab ID : PES10090220-02A	Fluoride	ND X	130 mg/L	09/03/10 09:21 09/03/10 14:10
Date Sampled 09/01/10 14:30	Chloride	1,800	100 mg/L	09/03/10 09:21 09/07/10 12:47
	Bromide	ND X	130 mg/L	09/03/10 09:21 09/03/10 14:10
	Nitrate (NO3) - N	280	130 mg/L	09/03/10 09:21 09/03/10 14:10
	Phosphate, ortho - P	ND X	130 mg/L	09/03/10 09:21 09/03/10 14:10
	Sulfate (SO4)	2,000	100 mg/L	09/03/10 09:21 09/07/10 12:47

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.

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9/16/10

Report Date



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Fax: (916) 393-7398  
Date Received : 09/02/10

Job: NGEM-TRON-FL

Perchlorate by Ion Chromatography  
EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S3 Lab ID: PES10090220-01A Perchlorate Date Sampled 09/01/10 14:30	8,920,000	200,000 µg/L	09/03/10 10:21	09/03/10
Client ID: NGEM-TRON-FL-RSAM-6-S2 Lab ID: PES10090220-02A Perchlorate Date Sampled 09/01/10 14:30	1,280,000	200,000 µg/L	09/03/10 10:21	09/03/10

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Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10090220-01A  
Client I.D. Number: NGEM-TRON-FL-RSAM-5-S3

Sampled: 09/01/10 14:30  
Received: 09/02/10  
Extracted: 09/03/10 10:08  
Analyzed: 09/03/10

### Organochlorine Pesticides EPA Method SW8081A

	Compound	Concentration	Reporting Limit
1	alpha-BHC	ND	0.050 µg/L
2	gamma-BHC (Lindane)	ND	0.050 µg/L
3	beta-BHC	ND	0.050 µg/L
4	delta-BHC	ND	0.050 µg/L
5	Heptachlor	ND	0.050 µg/L
6	Aldrin	ND	0.050 µg/L
7	Heptachlor epoxide	ND	0.050 µg/L
8	Endosulfan I	ND	0.050 µg/L
9	4,4'-DDE	ND	0.10 µg/L
10	Dieldrin	ND	0.10 µg/L
11	Endrin	ND	0.10 µg/L
12	4,4'-DDD	ND	0.10 µg/L
13	Endosulfan II	ND	0.10 µg/L
14	Endrin aldehyde	ND	0.10 µg/L
15	4,4'-DDT	ND	0.10 µg/L
16	Endosulfan sulfate	ND	0.10 µg/L
17	Methoxychlor	ND	0.50 µg/L
18	Endrin ketone	ND	0.10 µg/L
19	Toxaphene	ND	5.0 µg/L
20	Chlordane (Technical)	ND	1.0 µg/L
21	Hexachlorobenzene	ND	0.050 µg/L

Note: Endrin breakdown was 20% with a method criteria of  $\leq 15\%$ .

Sample data was verified by second column confirmation.

ND = Not Detected

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5070 Robert J. Mathews Parkway  
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Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10090220-02A  
Client I.D. Number: NGEM-TRON-FL-RSAM-6-S2

Sampled: 09/01/10 14:30  
Received: 09/02/10  
Extracted: 09/03/10 10:08  
Analyzed: 09/03/10

### Organochlorine Pesticides EPA Method SW8081A

	Compound	Concentration	Reporting Limit
1	alpha-BHC	ND	0.050 µg/L
2	gamma-BHC (Lindane)	ND	0.050 µg/L
3	beta-BHC	1.7	0.050 µg/L
4	delta-BHC	ND	0.050 µg/L
5	Heptachlor	ND	0.050 µg/L
6	Aldrin	ND	0.050 µg/L
7	Heptachlor epoxide	ND	0.050 µg/L
8	Endosulfan I	ND	0.050 µg/L
9	4,4'-DDE	ND	0.10 µg/L
10	Dieldrin	ND	0.10 µg/L
11	Endrin	ND	0.10 µg/L
12	4,4'-DDD	ND	0.10 µg/L
13	Endosulfan II	ND	0.10 µg/L
14	Endrin aldehyde	ND	0.10 µg/L
15	4,4'-DDT	ND	0.10 µg/L
16	Endosulfan sulfate	ND	0.10 µg/L
17	Methoxychlor	ND	0.50 µg/L
18	Endrin ketone	ND	0.10 µg/L
19	Toxaphene	ND	5.0 µg/L
20	Chlordane (Technical)	ND	1.0 µg/L
21	Hexachlorobenzene	ND	0.050 µg/L

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

Sample data was verified by second column confirmation.

ND = Not Detected

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/02/10

Job: NGEM-TRON-FL

Alkalinity  
SM2320B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S3				
Lab ID : PES10090220-01A	Alkalinity, Bicarbonate (As CaCO3)	300	20 mg/L	09/08/10
Date Sampled 09/01/10 14:30	Alkalinity, Hydroxide (As CaCO3)	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO3 at pH 4.5)	300	20 mg/L	09/08/10
Client ID: NGEM-TRON-FL-RSAM-6-S2				
Lab ID : PES10090220-02A	Alkalinity, Bicarbonate (As CaCO3)	41	20 mg/L	09/08/10
Date Sampled 09/01/10 14:30	Alkalinity, Hydroxide (As CaCO3)	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO3 at pH 4.5)	41	20 mg/L	09/08/10

ND = Not Detected

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Date Received : 09/02/10

Job: NGEM-TRON-FL

Ammonia as Nitrogen  
SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S3</b>				
Lab ID: PES10090220-01A Nitrogen, Ammonia (As N)	930	25 mg/L	09/03/10	09/03/10
Date Sampled 09/01/10 14:30				
Client ID: <b>NGEM-TRON-FL-RSAM-6-S2</b>				
Lab ID: PES10090220-02A Nitrogen, Ammonia (As N)	ND X	5.0 mg/L	09/03/10	09/03/10
Date Sampled 09/01/10 14:30				

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

ND = Not Detected

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Date Received : 09/02/10

Job: NGEM-TRON-FL

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID: NGEM-TRON-FL-RSAM-5-S3					
Lab ID : PES10090220-01A	Boron (B), Dissolved	0.45	0.10 mg/L	09/02/10 10:52	09/02/10
Date Sampled 09/01/10 14:30	Sodium (Na), Dissolved	4,200	5.0 mg/L	09/01/10 17:34	09/02/10
	Magnesium (Mg), Dissolved	240	0.50 mg/L	09/02/10 10:52	09/02/10
	Potassium (K), Dissolved	170	0.50 mg/L	09/02/10 10:52	09/02/10
	Calcium (Ca), Dissolved	540	0.50 mg/L	09/02/10 10:52	09/02/10
	Chromium (Cr), Dissolved	0.099	0.0050 mg/L	09/02/10 10:52	09/02/10
	Manganese (Mn), Dissolved	0.16	0.0050 mg/L	09/02/10 10:52	09/02/10
	Iron (Fe), Dissolved	3.2	0.10 mg/L	09/02/10 10:52	09/02/10
	Cobalt (Co), Dissolved	0.066	0.0050 mg/L	09/02/10 10:52	09/02/10
	Arsenic (As), Dissolved	0.037	0.0020 mg/L	09/02/10 10:52	09/02/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/02/10 10:52	09/02/10
Client ID: NGEM-TRON-FL-RSAM-6-S2					
Lab ID : PES10090220-02A	Boron (B), Dissolved	1.2	0.10 mg/L	09/02/10 10:52	09/02/10
Date Sampled 09/01/10 14:30	Sodium (Na), Dissolved	750	0.50 mg/L	09/02/10 10:52	09/02/10
	Magnesium (Mg), Dissolved	400	0.50 mg/L	09/02/10 10:52	09/02/10
	Potassium (K), Dissolved	67	0.50 mg/L	09/02/10 10:52	09/02/10
	Calcium (Ca), Dissolved	1,300	0.50 mg/L	09/02/10 10:52	09/02/10
	Chromium (Cr), Dissolved	0.0071	0.0050 mg/L	09/02/10 10:52	09/02/10
	Manganese (Mn), Dissolved	0.025	0.0050 mg/L	09/02/10 10:52	09/02/10
	Iron (Fe), Dissolved	7.3	0.10 mg/L	09/02/10 10:52	09/02/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/02/10 10:52	09/02/10
	Arsenic (As), Dissolved	0.0072	0.0020 mg/L	09/01/10 17:34	09/03/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/02/10 10:52	09/02/10

ND = Not Detected

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/02/10

Job: NGEM-TRON-FL

Total Dissolved Solids (TDS)  
SM2540C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S3				
Lab ID: PES10090220-01A Solids, Total Dissolved (TDS) Date Sampled 09/01/10 14:30	15,000	200 mg/L	09/08/10	09/08/10
Client ID: NGEM-TRON-FL-RSAM-6-S2				
Lab ID: PES10090220-02A Solids, Total Dissolved (TDS) Date Sampled 09/01/10 14:30	10,000	50 mg/L	09/08/10	09/08/10

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/02/10

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: <b>NGEM-TRON-FL-RSAM-5-S3</b> Lab ID : PES10090220-01A Total Organic Carbon Date Sampled 09/01/10 14:30	67	4.0 mg/L	09/08/10 08:58	09/08/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S2</b> Lab ID : PES10090220-02A Total Organic Carbon Date Sampled 09/01/10 14:30	14	4.0 mg/L	09/08/10 08:58	09/08/10

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/02/10

Job: NGEM-TRON-FL

Total Suspended Solids  
SM2540D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S3</b>				
Lab ID : PES10090220-01A Solids, Total Suspended (TSS) Date Sampled 09/01/10 14:30	ND	2.5 mg/L	09/07/10	09/07/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S2</b>				
Lab ID : PES10090220-02A Solids, Total Suspended (TSS) Date Sampled 09/01/10 14:30	6.7	2.5 mg/L	09/07/10	09/07/10

ND = Not Detected

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Date Received : 09/02/10

Job: NGEM-TRON-FL

Volatile Organics by GC/MS  
EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S3 Lab ID : PES10090220-01A Chloroform Date Sampled 09/01/10 14:30	ND O	10 µg/L	09/07/10	09/07/10
Client ID: NGEM-TRON-FL-RSAM-6-S2 Lab ID : PES10090220-02A Chloroform Date Sampled 09/01/10 14:30	ND O	10 µg/L	09/07/10	09/07/10

O = Reporting Limits were increased due to sample foaming.

ND = Not Detected

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

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*[Signature]*  
9/10/10

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## VOC Sample Preservation Report

**Work Order:** PES10090220

**Job:** NGEM-TRON-FL

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
10090220-01A	NGEM-TRON-FL-RSAM-5-S3	Aqueous	2
10090220-02A	NGEM-TRON-FL-RSAM-6-S2	Aqueous	2

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

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Date:  
09-Sep-10

## QC Summary Report

Work Order:  
10090220

### Method Blank

Type: MBLK Test Code: EPA Method 300.0

File ID: 28			Batch ID: 24991		Analysis Date: 09/03/2010 12:56					
Sample ID: MB-24991	Units : mg/L	Run ID: IC_1_100903A		Prep Date: 09/03/2010 09:21						
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: 38			Batch ID: 24991		Analysis Date: 09/03/2010 16:04					
Sample ID: LFB-24991	Units : mg/L	Run ID: IC_1_100903A		Prep Date: 09/03/2010 09:21						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.46	0.25	5		109	90	110			
Chloride	48.1	0.5	50		96	90	110			
Bromide	5.17	0.25	5		103	90	110			
Nitrate (NO3) - N	5.28	0.25	5		106	90	110			
Phosphate, ortho - P	5.41	0.5	5		108	90	110			
Sulfate (SO4)	99.6	0.5	100		99.6	90	110			

### Sample Matrix Spike

Type: LFM Test Code: EPA Method 300.0

File ID: 26			Batch ID: 24991		Analysis Date: 09/03/2010 12:19					
Sample ID: 10090205-01ALFM	Units : mg/L	Run ID: IC_1_100903A		Prep Date: 09/03/2010 09:21						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.36	0.25	5	0.5069	97	80	120			
Chloride	96.5	0.5	50	63.2	67	80	120			M2
Bromide	5.42	0.25	5	0	108	80	120			
Nitrate (NO3) - N	13.7	0.25	5	8.647	101	80	120			
Phosphate, ortho - P	5.58	0.5	5	0	112	80	120			
Sulfate (SO4)	134	0.5	100	52.35	81	80	120			

### Sample Matrix Spike Duplicate

Type: LFMD Test Code: EPA Method 300.0

File ID: 27			Batch ID: 24991		Analysis Date: 09/03/2010 12:38					
Sample ID: 10090205-01ALFMD	Units : mg/L	Run ID: IC_1_100903A		Prep Date: 09/03/2010 09:21						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.34	0.25	5	0.5069	97	80	120	5.358	0.3(15)	
Chloride	98	0.5	50	63.2	70	80	120	96.47	1.6(15)	M2
Bromide	5.42	0.25	5	0	108	80	120	5.416	0.1(15)	
Nitrate (NO3) - N	13.9	0.25	5	8.647	106	80	120	13.71	1.6(15)	
Phosphate, ortho - P	5.62	0.5	5	0	112	80	120	5.577	0.8(15)	
Sulfate (SO4)	135	0.5	100	52.35	82	80	120	133.6	0.7(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:  
10-Sep-10

## QC Summary Report

Work Order:  
10090220

### Method Blank

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

File ID: **29** Batch ID: **24993** Analysis Date: **09/03/2010 15:54**  
Sample ID: **MB-24993** Units : **µg/L** Run ID: **IC\_3\_100903A** Prep Date: **09/03/2010 10:21**  
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: **20** Batch ID: **24993** Analysis Date: **09/03/2010 13:09**  
Sample ID: **LFB-24993** Units : **µg/L** Run ID: **IC\_3\_100903A** Prep Date: **09/03/2010 10:21**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Perchlorate 24.7 2 25 99 85 115

### Sample Matrix Spike

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

File ID: **27** Batch ID: **24993** Analysis Date: **09/03/2010 15:18**  
Sample ID: **10090205-01ALFM** Units : **µg/L** Run ID: **IC\_3\_100903A** Prep Date: **09/03/2010 10:21**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Perchlorate 24.6 2 25 0 98 80 120

### Sample Matrix Spike Duplicate

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

File ID: **28** Batch ID: **24993** Analysis Date: **09/03/2010 15:36**  
Sample ID: **10090205-01ALFMD** Units : **µg/L** Run ID: **IC\_3\_100903A** Prep Date: **09/03/2010 10:21**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Perchlorate 25.5 2 25 0 102 80 120 24.59 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:  
10-Sep-10

## QC Summary Report

Work Order:  
10090220

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW8081A**

File ID: **10090310.D**

Batch ID: **24992**

Analysis Date: **09/03/2010 04:49**

Sample ID: **MBLK-24992**

Units : **µg/L**

Run ID: **ECD\_1\_100903A**

Prep Date: **09/03/2010 10:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	ND	0.05								
gamma-BHC (Lindane)	ND	0.05								
beta-BHC	ND	0.05								
delta-BHC	ND	0.05								
Heptachlor	ND	0.05								
Aldrin	ND	0.05								
Heptachlor epoxide	ND	0.05								
Endosulfan I	ND	0.05								
4,4'-DDE	ND	0.1								
Dieldrin	ND	0.1								
Endrin	ND	0.1								
4,4'-DDD	ND	0.1								
Endosulfan II	ND	0.1								
Endrin aldehyde	ND	0.1								
4,4'-DDT	ND	0.1								
Endosulfan sulfate	ND	0.1								
Methoxychlor	ND	0.5								
Endrin ketone	ND	0.1								
Toxaphene	ND	5								
Chlordane (Technical)	ND	1								
Hexachlorobenzene	ND	0.05								
Surr: Tetrachloro-m-xylene	0.36		0.5		72	26	130			
Surr: Decachlorobiphenyl	0.54		0.5		108	31	141			

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8081A**

File ID: **10090311.D**

Batch ID: **24992**

Analysis Date: **09/03/2010 05:01**

Sample ID: **LCS-24992**

Units : **µg/L**

Run ID: **ECD\_1\_100903A**

Prep Date: **09/03/2010 10:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.45	0.05	0.5		90	63	130			
gamma-BHC (Lindane)	0.48	0.05	0.5		96	67	130			
beta-BHC	0.49	0.05	0.5		98	69	130			
delta-BHC	0.46	0.05	0.5		92	70	130			
Heptachlor	0.47	0.05	0.5		94	50	130			
Aldrin	0.48	0.05	0.5		96	37	130			
Heptachlor epoxide	0.5	0.05	0.5		100	70	130			
Endosulfan I	0.29	0.05	0.5		58	44	130			
4,4'-DDE	0.46	0.1	0.5		92	64	130			
Dieldrin	0.51	0.1	0.5		102	70	130			
Endrin	0.55	0.1	0.5		110	70	136			
4,4'-DDD	0.51	0.1	0.5		102	70	130			
Endosulfan II	0.4	0.1	0.5		80	60	130			
4,4'-DDT	0.48	0.1	0.5		96	69	131			
Endosulfan sulfate	0.51	0.1	0.5		102	68	133			
Methoxychlor	0.51	0.5	0.5		102	68	135			
Endrin ketone	0.5	0.1	0.5		100	66	130			
Surr: Tetrachloro-m-xylene	0.38		0.5		76	26	130			
Surr: Decachlorobiphenyl	0.46		0.5		92	31	141			



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Date:  
10-Sep-10

## QC Summary Report

Work Order:  
10090220

### Sample Matrix Spike

File ID: 10090314.D

Type: MS

Test Code: EPA Method SW8081A

Batch ID: 24992

Analysis Date: 09/03/2010 05:36

Sample ID: 10090220-01AMS

Units : µg/L

Run ID: ECD\_1\_100903A

Prep Date: 09/03/2010 10:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.9	0.05	1	0	90	45	130			
gamma-BHC (Lindane)	0.94	0.05	1	0	94	56	130			
beta-BHC	0.95	0.05	1	0	95	20	152			
delta-BHC	0.78	0.05	1	0	78	39	130			
Heptachlor	1.03	0.05	1	0	103	40	130			
Aldrin	0.84	0.05	1	0	84	20	133			
Heptachlor epoxide	0.9	0.05	1	0	90	62	130			
Endosulfan I	0.72	0.05	1	0	72	32	130			
4,4'-DDE	1.27	0.1	1	0	127	59	130			
Dieldrin	1.18	0.1	1	0	118	66	130			
Endrin	1.01	0.1	1	0	101	58	142			
4,4'-DDD	0.97	0.1	1	0	97	60	130			
Endosulfan II	1.22	0.1	1	0	122	41	130			
4,4'-DDT	0.96	0.1	1	0	96	57	134			
Endosulfan sulfate	0.96	0.1	1	0	96	60	134			
Methoxychlor	1.06	0.5	1	0	106	42	160			
Endrin ketone	0.97	0.1	1	0	97	57	133			
Surr: Tetrachloro-m-xylene	0.71		1		71	26	130			
Surr: Decachlorobiphenyl	1.38		1		138	31	141			

### Sample Matrix Spike Duplicate

File ID: 10090315.D

Type: MSD

Test Code: EPA Method SW8081A

Batch ID: 24992

Analysis Date: 09/03/2010 05:47

Sample ID: 10090220-01AMSD

Units : µg/L

Run ID: ECD\_1\_100903A

Prep Date: 09/03/2010 10:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.94	0.05	1	0	94	45	130	0.9	4.4(20)	
gamma-BHC (Lindane)	1.07	0.05	1	0	107	56	130	0.94	12.9(20)	
beta-BHC	1.06	0.05	1	0	106	20	152	0.95	10.9(20)	
delta-BHC	0.8	0.05	1	0	80	39	130	0.78	2.5(20)	
Heptachlor	1.07	0.05	1	0	107	40	130	1.03	3.8(20)	
Aldrin	0.82	0.05	1	0	82	20	133	0.84	2.4(20)	
Heptachlor epoxide	0.89	0.05	1	0	89	62	130	0.9	1.1(20)	
Endosulfan I	0.52	0.05	1	0	52	32	130	0.72	32.3(20)	R5
4,4'-DDE	1.15	0.1	1	0	115	59	130	1.27	9.9(20)	
Dieldrin	1.16	0.1	1	0	116	66	130	1.18	1.7(20)	
Endrin	1.01	0.1	1	0	101	58	142	1.01	0.0(20)	
4,4'-DDD	0.93	0.1	1	0	93	60	130	0.97	4.2(20)	
Endosulfan II	1.21	0.1	1	0	121	41	130	1.22	0.8(20)	
4,4'-DDT	0.98	0.1	1	0	98	57	134	0.96	2.1(20)	
Endosulfan sulfate	0.95	0.1	1	0	95	60	134	0.96	1.1(20)	
Methoxychlor	1.01	0.5	1	0	101	42	160	1.06	4.8(20)	
Endrin ketone	0.95	0.1	1	0	95	57	133	0.97	2.1(20)	
Surr: Tetrachloro-m-xylene	0.68		1		68	26	130			
Surr: Decachlorobiphenyl	1.44		1		144	31	141			S55

### 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.

S55 = Surrogate recovery was above laboratory acceptance limits.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

Sample data was verified by second column confirmation.





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Date:  
09-Sep-10

## QC Summary Report

Work Order:  
10090220

### 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:  
08-Sep-10

## QC Summary Report

Work Order:  
10090220

### Method Blank

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

File ID:				Batch ID: <b>W0830AM</b>		Analysis Date: <b>08/30/2010 10:39</b>				
Sample ID: <b>MBLK-W0830AM</b>	Units : <b>mg/L</b>		Run ID: <b>WETLAB_100830A</b>		Prep Date: <b>08/30/2010 10:39</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>W0830AM</b>		Analysis Date: <b>08/30/2010 10:33</b>				
Sample ID: <b>LCS-W0830AM</b>	Units : <b>mg/L</b>		Run ID: <b>WETLAB_100830A</b>		Prep Date: <b>08/30/2010 10:33</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	4.92	0.1	5		98	70	130			

### Sample Matrix Spike

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

File ID:				Batch ID: <b>W0830AM</b>		Analysis Date: <b>08/30/2010 10:47</b>				
Sample ID: <b>10081848-01AMS</b>	Units : <b>mg/L</b>		Run ID: <b>WETLAB_100830A</b>		Prep Date: <b>08/30/2010 10:47</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	6.7	0.1	5	1.51	104	65	138			

### Sample Matrix Spike Duplicate

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

File ID:				Batch ID: <b>W0830AM</b>		Analysis Date: <b>08/30/2010 10:53</b>				
Sample ID: <b>10081848-01AMSD</b>	Units : <b>mg/L</b>		Run ID: <b>WETLAB_100830A</b>		Prep Date: <b>08/30/2010 10:53</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5.85	0.1	5	1.51	87	65	138	6.7	13.5(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.



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Date:  
10-Sep-10

## QC Summary Report

Work Order:  
10090220

### Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\123\_M.D\**

Batch ID: **24986**

Analysis Date: **09/02/2010 09:06**

Sample ID: **MB-24986**

Units : **mg/L**

Run ID: **ICP/MS\_100902C**

Prep Date: **09/01/2010 17:34**

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 SW6020 / SW6020A**

File ID: **090110.B\124\_M.D\**

Batch ID: **24986**

Analysis Date: **09/02/2010 09:12**

Sample ID: **LCS-24986**

Units : **mg/L**

Run ID: **ICP/MS\_100902C**

Prep Date: **09/01/2010 17:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.0435	0.1	0.058		75	80	120			L2
Sodium (Na), Dissolved	4.71	0.5	5		94	80	120			
Magnesium (Mg), Dissolved	4.7	0.5	5		94	80	120			
Potassium (K), Dissolved	4.93	0.5	5		99	80	120			
Calcium (Ca), Dissolved	4.95	0.5	5		99	80	120			
Chromium (Cr), Dissolved	0.0505	0.005	0.05		101	80	120			
Manganese (Mn), Dissolved	0.051	0.005	0.05		102	80	120			
Iron (Fe), Dissolved	5.05	0.1	5		101	80	120			
Cobalt (Co), Dissolved	0.0506	0.005	0.05		101	80	120			
Arsenic (As), Dissolved	0.0502	0.002	0.05		100	80	120			
Lead (Pb), Dissolved	0.0459	0.005	0.05		92	80	120			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\129\_SM.D\**

Batch ID: **24986**

Analysis Date: **09/02/2010 09:40**

Sample ID: **10083123-01AMS**

Units : **mg/L**

Run ID: **ICP/MS\_100902C**

Prep Date: **09/01/2010 17:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.305	0.1	0.058	0.3003	8.3	75	125			M3
Sodium (Na), Dissolved	2080	0.5	5	18230	-3E+05	75	125			M3
Magnesium (Mg), Dissolved	1330	0.5	5	1439	-2300	75	125			M3
Potassium (K), Dissolved	698	0.5	5	721.1	-470	75	125			M3
Calcium (Ca), Dissolved	3420	0.5	5	3408	300	75	125			M3
Chromium (Cr), Dissolved	0.0585	0.005	0.05	0.007854	101	75	125			
Manganese (Mn), Dissolved	1.3	0.005	0.05	1.286	34	75	125			M3
Iron (Fe), Dissolved	22.4	0.2	5	21.18	25	75	125			M3
Cobalt (Co), Dissolved	0.107	0.005	0.05	0.06205	89	75	125			
Arsenic (As), Dissolved	0.0665	0.002	0.05	0	108	75	125			
Lead (Pb), Dissolved	0.053	0.005	0.05	0	106	75	125			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\130\_SM.D\**

Batch ID: **24986**

Analysis Date: **09/02/2010 09:46**

Sample ID: **10083123-01AMSD**

Units : **mg/L**

Run ID: **ICP/MS\_100902C**

Prep Date: **09/01/2010 17:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.308	0.1	0.058	0.3003	13	75	125	0.3051	0.8(20)	M3
Sodium (Na), Dissolved	18000	0.5	5	18230	-3700	75	125	2080	159.0(20)	M3 R58
Magnesium (Mg), Dissolved	1440	0.5	5	1439	60	75	125	1325	8.5(20)	M3
Potassium (K), Dissolved	775	0.5	5	721.1	1080	75	125	697.8	10.5(20)	M3
Calcium (Ca), Dissolved	3930	0.5	5	3408	10400	75	125	3423	13.8(20)	M3
Chromium (Cr), Dissolved	0.0655	0.005	0.05	0.007854	115	75	125	0.05852	11.2(20)	
Manganese (Mn), Dissolved	1.46	0.005	0.05	1.286	342	75	125	1.303	11.2(20)	M3
Iron (Fe), Dissolved	23.8	0.2	5	21.18	53	75	125	22.44	6.0(20)	M3
Cobalt (Co), Dissolved	0.119	0.005	0.05	0.06205	115	75	125	0.1067	11.2(20)	
Arsenic (As), Dissolved	0.0772	0.002	0.05	0	129	75	125	0.06647	14.9(20)	M1
Lead (Pb), Dissolved	0.0566	0.005	0.05	0	113	75	125	0.05298	6.6(20)	



# Alpha Analytical, Inc.

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

**Date:**  
10-Sep-10

## QC Summary Report

**Work Order:**  
10090220

**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.

L2 = The associated blank spike recovery was below laboratory acceptance limits.

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

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.

R58 = MS/MSD RPD exceeded the laboratory control limit.



# Alpha Analytical, Inc.

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Date:  
08-Sep-10

## QC Summary Report

Work Order:  
10090220

### Method Blank

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

File ID: Batch ID: **W0827DS** Analysis Date: **08/30/2010 00:00**  
Sample ID: **MBLK-W0827DS** Units : **mg/L** Run ID: **WETLAB\_100827C** Prep Date: **08/30/2010 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: **W0827DS** Analysis Date: **08/31/2010 00:00**  
Sample ID: **LCS-W0827DS** Units : **mg/L** Run ID: **WETLAB\_100827C** Prep Date: **08/31/2010 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.



# Alpha Analytical, Inc.

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

Date:  
20-Sep-10

## QC Summary Report

Work Order:  
10090220

### Method Blank

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

File ID: Batch ID: **25005** Analysis Date: **09/08/2010 11:20**

Sample ID: **MBLK-25005** Units : **mg/L** Run ID: **TOC\_100908A** Prep Date: **09/08/2010 08:58**

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: **25005** Analysis Date: **09/08/2010 11:45**

Sample ID: **LCS-25005** Units : **mg/L** Run ID: **TOC\_100908A** Prep Date: **09/08/2010 08:58**

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: **25005** Analysis Date: **09/10/2010 11:31**

Sample ID: **10090720-02AMS** Units : **mg/L** Run ID: **TOC\_100908A** Prep Date: **09/08/2010 08:58**

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: **25005** Analysis Date: **09/10/2010 12:00**

Sample ID: **10090720-02AMSD** Units : **mg/L** Run ID: **TOC\_100908A** Prep Date: **09/08/2010 08:58**

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:  
08-Sep-10

## QC Summary Report

Work Order:  
10090220

### Method Blank

File ID:	Type <b>MBLK</b>	Test Code: <b>SM2540D</b>	Batch ID: <b>W0827SS</b>	Analysis Date: <b>08/27/2010 00:00</b>						
Sample ID: <b>MBLK-W0827SS</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100827A</b>	Prep Date: <b>08/27/2010 00:00</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

File ID:	Type <b>LCS</b>	Test Code: <b>SM2540D</b>	Batch ID: <b>W0827SS</b>	Analysis Date: <b>08/27/2010 00:00</b>						
Sample ID: <b>LCS-W0827SS</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100827A</b>	Prep Date: <b>08/27/2010 00:00</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Suspended (TSS)	75	2.5	100		75	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.

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

Date:  
08-Sep-10

## QC Summary Report

Work Order:  
10090220

### Method Blank

File ID: 10090703.D

Sample ID: MBLK MS12W0907A

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	ND	1								
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.62		10		96	70	130			
Surr: 4-Bromofluorobenzene	9.15		10		92	70	130			

### Laboratory Control Spike

File ID: 10090702.D

Sample ID: LCS MS12W0907A

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	10.1	1	10		101	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	10.2		10		102	70	130			

### Sample Matrix Spike

File ID: 10090717.D

Sample ID: 10083147-08AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	47.4	2.5	50	0	95	67	130			
Surr: 1,2-Dichloroethane-d4	53		50		106	70	130			
Surr: Toluene-d8	49.4		50		99	70	130			
Surr: 4-Bromofluorobenzene	51.6		50		103	70	130			

### Sample Matrix Spike Duplicate

File ID: 10090718.D

Sample ID: 10083147-08AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	51.6	2.5	50	0	103	67	130	47.36	8.6(20)	
Surr: 1,2-Dichloroethane-d4	57.6		50		115	70	130			
Surr: Toluene-d8	47.6		50		95	70	130			
Surr: 4-Bromofluorobenzene	49.9		50		99.8	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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**LABORATORIES**

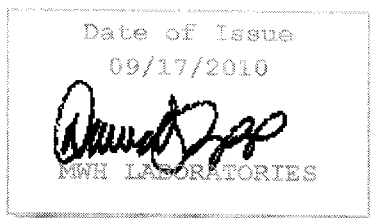
*A Division of MWH Americas, Inc.*

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#: 342593  
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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Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Laboratory  
Hits Report: 342593**

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

Samples Received on:  
09/02/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
09/09/2010	23:07 Chlorate by IC	<b><u>201009020205</u></b> <b><u>NGEM-TRON-FL-RSAM-5-S3</u></b>	14000		ug/L	1000
09/09/2010	23:35 Chlorate by IC	<b><u>201009020206</u></b> <b><u>NGEM-TRON-FL-RSAM-6-S2</u></b>	22000		ug/L	500



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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: 342593**

Samples Received on:  
09/02/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>NGEM-TRON-FL-RSAM-5-S3 (201009020205)</u></b>						<b>Sampled on 09/01/2010 1430</b>		
Variable ID: PES10090220-01A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/09/2010	23:07	568713	(EPA 300.0)	Chlorate by IC	14000	ug/L	1000	100
<b><u>NGEM-TRON-FL-RSAM-6-S2 (201009020206)</u></b>						<b>Sampled on 09/01/2010 1430</b>		
Variable ID: PES10090220-02A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/09/2010	23:35	568713	(EPA 300.0)	Chlorate by IC	22000	ug/L	500	50



**MWH**

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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: #342593**



**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 Summary: 342593

Alpha Analytical, Inc.

---

**QC Ref # 568713 - Disinfection ByProducts by 300.0**

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

201009020205      NGEM-TRON-FL-RSAM-5-S3  
201009020206      NGEM-TRON-FL-RSAM-6-S2

Analyzed by: LUPE  
Analyzed by: LUPE



MWH

LABORATORIES

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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  
QC Report: 342593

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 568713 - Disinfection ByProducts by 300.0 by EPA 300.0</b>					<b>Analysis Date: 09/09/2010</b>				
LCS1	Bromide		100	103	ug/L	103	(90-110)		
LCS2	Bromide		100	102	ug/L	102	(90-110)	20	0.98
MBLK	Bromide			<5.0	ug/L				
MRL_CHK	Bromide		5.0	4.76	ug/L	95	(50-150)		
MS_201008260437	Bromide	130	50	175	ug/L	99	(80-120)		
MS_201008310177	Bromide	120	50	166	ug/L	97	(80-120)		
MSD_201008260437	Bromide	130	50	174	ug/L	96	(80-120)	15	3.0
MSD_201008310177	Bromide	120	50	165	ug/L	96	(80-120)	15	0.83
LCS1	Chlorate by IC		200	205	ug/L	103	(90-110)		
LCS2	Chlorate by IC		200	203	ug/L	102	(90-110)	20	0.98
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	10.1	ug/L	101	(75-125)		
MS_201008260437	Chlorate by IC	20	100	118	ug/L	98	(80-120)		
MS_201008310177	Chlorate by IC	ND	100	95.6	ug/L	96	(80-120)		
MSD_201008260437	Chlorate by IC	20	100	115	ug/L	96	(80-120)	15	2.6
MSD_201008310177	Chlorate by IC	ND	100	94.8	ug/L	95	(80-120)	15	0.84

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 #: 342593

Project #: SUBCONTRACT

Sample Group: Chlorate

Project Manager: David S Tripp

Phone: (626) 386-1158

PO# PES10090220

The following samples were received from you on **September 02, 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
201009020205	NGEM-TRON-FL-RSAM-5-S3 Variable ID: PES10090220-01A Chlorate by IC	01-Sep-2010 1430
201009020206	NGEM-TRON-FL-RSAM-6-S2 Variable ID: PES10090220-02A Chlorate by IC	01-Sep-2010 1430

**Test Description**



**Sierra  
Environmental  
Monitoring, Inc.**

## Laboratory Report Report ID: 107962

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

**Date:** 9/9/2010  
**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:**

  
Sierra Environmental Monitoring, Inc.

9/9/2010

**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: 107962**

**Sierra  
 Environmental  
 Monitoring, Inc.**

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

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

***Analysis Report***

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0083	PES10090220-01 - NGEM-TRON-FL-RSAM-5-S3	9/1/2010	2:30 PM	9/2/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/2/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/7/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0084	PES10090220-02 - NGEM-TRON-FL-RSAM-6-S2	9/1/2010	2:30 PM	9/2/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/2/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/7/2010	

**Data Flag Legend:**



**Laboratory Report**  
**Report ID: 107962**

**Sierra  
 Environmental  
 Monitoring, Inc.**

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

**Date:** 9/9/2010  
**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	98.0	92.0	90.0	1.64	<0.02 mg/L

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

Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**CA RUSH** Page: 1 of 2

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

WorkOrder : PES10090220

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

*Perchlorate due 9-3-10*

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 # : 21968, 32773 Job : NGENM-TRON-FL  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates  
 Cooler Temp 4 °C Samples Received 02-Sep-10 Date Printed 02-Sep-10

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		METALS_A DD_DS
PES10090220-01A	NGEM-TRON-FL-RSAM-5-S3	09/01/10 14:30	12	2	5	Br, Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , PO <sub>4</sub> , Chlorate	Br, Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , PO <sub>4</sub> , Chlorate	Perchlorate	8081, Hexachloroethene	Total, HCO <sub>3</sub> Hydroxide	NH3	Uranium, Dissolved	Special List
PES10090220-02A	NGEM-TRON-FL-RSAM-6-S2	09/01/10 14:30	12	2	5	Br, Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , PO <sub>4</sub> , Chlorate	Br, Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , PO <sub>4</sub> , Chlorate	Perchlorate	8081, Hexachloroethene	Total, HCO <sub>3</sub> Hydroxide	NH3	Uranium, Dissolved	Special List

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/3/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. Hi Conductivity, 100-200µmS, TOC pH=1.1.

Logged in by: K Murray Signature K Murray Print Name K Murray Company Alpha Analytical, Inc. Date/Time 9/2/10 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 : AQA(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**

**CA** *Received* Page: 2 of 2

**Alpha Analytical, Inc.**

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

**WorkOrder : PES10090220**

**Report Due By : 5:00 PM On : 10-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 4 °C Samples Received 02-Sep-10 Date Printed 02-Sep-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates  
 Job : NGENM-TRON-FL

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests				Sample Remarks
				Alpha	Sub	TAT	TDS_W	TOC_W	TSS_W	VOC_W	
PES10090220-01A	NGEM-TRON-FL-RSAM-5-S3	AQ	09/01/10 14:30	12	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_C	
PES10090220-02A	NGEM-TRON-FL-RSAM-6-S2	AQ	09/01/10 14:30	12	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_C	

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/3/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. Hi Conductivity, 100-200µS, TOC, pH=1.1.

Logged in by: K Murray Signature K Murray Print Name K Murray Company Alpha Analytical, Inc. Date/Time 9/2/10 09:50

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 PRIMA ENVIRONMENTAL, Inc.**

Name — 5070 Robert J. Mathews Parkway, Suite 300  
 Address — El Dorado Hills, CA 95762  
 City, Sta PH: 916-939-7300  
 Phone N 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?** 21968  
 AZ CA NV WA  
 ID OR OTHER  
 Page # 1 of 2

Client Name: \_\_\_\_\_ P.O. #: \_\_\_\_\_ Job #: **NGEM-TRON-FL**  
 Address: \_\_\_\_\_ Email Address: **data@primaenvironmental.com**  
 City, State, Zip: \_\_\_\_\_ Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by	Lab ID Number (Use Only)	Report Attention	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	Analyses Required										Global ID #	EDD/EDF? YES ___ NO ___	REMARKS
										Perchlorate (314)	Alkalinity (301.1)	Anions (300)	TDS (160.1)	Ammonia (350.3)	Chlorate (300)	Metals (6020)	Required QC Level? I II III IV					
1430	9/10	AQ	CR	RES10090220-01	Cindy Schreier	NGEM-TRON-FL-RSAM-5-53	24hr		3-V	X	X	X	X	X	X	X	X	Alkalinity = total, HCO <sub>3</sub> hydroxide				
1430		AQ		02		-RSAM-6-5A			3-V	X	X	X	X	X	X	X	Anticong = unpreserved; (Br, Cl, F, SO <sub>4</sub> )					
1430		AQ		01		NGEM-TRON-FL-RSAM-5-53	5A		4-P	X	X	X	X	X	X	X	preserved: (NO <sub>3</sub> , O <sub>3</sub> , PO <sub>4</sub> )					
1430		AQ		02		-RSAM-6-5A			4-P	X	X	X	X	X	X	X	Metals: (As, B, Ca, Cd, Co, Fe, K, Pb, Mg, Mn, Na) & (Cu)					
1430		AQ		02		-SA-18A-5A			4-P	X	X	X	X	X	X	X	metals are filtered					

**ADDITIONAL INSTRUCTIONS: HI Conductivity, IN Range 02 100 - 300 MS**

Received by	Signature	Print Name	Company	Date	Time
Relinquished by	CR	Rachel Giffin	Prima	9/11/10	1430
Received by	[Signature]	Lisa deSilva	ALDPA	9-1-10	1430
Relinquished by	[Signature]	Lisa deSilva	ALDPA	9-7-10	1500
Received by	[Signature]	K. Murray	AA1	9/2/10	0940
Relinquished by					
Received by					

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* - L-Lier 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 Parkway, Suite 300**  
 Address: **El Dorado Hills, CA 95762**  
 City, State: **PH: 916-939-7300**  
 Phone N: **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

**Analyses Required**

**Data Validation**  
 Level: III or IV

EOD / EDF? YES \_\_\_ NO \_\_\_  
 Global ID # \_\_\_\_\_

**REMARKS**

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Use Only)	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	TOC (9060)	TSS (169.2)	8081a	Chloroform (8260)	REMARKS
1430	9/1/10	AQ	RES10090220-01	NGEM-TROW-EL-RSAM-5-53	5A	NGEM-TROW-EL-RSAM-5-53	5A		3V-20T	X	X	X	X	8081a: organochloride pesticides + hexachlorobenzene
						-RSAM-6-52			3V-20T	X	X	X	X	TSS for RSAM-6-5
						-SA-189-50			3V-20T	X	X	X	X	Sub to MWH Chlorate

**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: GR

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date: 9/1/10	Time: 1430
Relinquished by: (Signature/Affiliation) <u>GR Prima Environmental</u>	Received by: (Signature/Affiliation) <u>GR</u>	Date: 9/1/10	Time: 1430
Relinquished by: (Signature/Affiliation) <u>Ben Schiller</u>	Received by: (Signature/Affiliation) <u>Ben Schiller</u>	Date: 9/2/10	Time: 0940
Relinquished by: (Signature/Affiliation) <u>Primera</u>	Received by: (Signature/Affiliation) <u>Primera</u>	Date: 9/2/10	Time: 1530

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Vol 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 : 09/03/10

Job: NGEM-TRON-FL

### Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S4</b>				
Lab ID: PES10090320-01A	Fluoride	35	25 mg/L	09/03/10 09:21 09/03/10 14:29
Date Sampled 09/02/10 14:00	Chloride	130	100 mg/L	09/03/10 09:21 09/07/10 13:06
	Bromide	ND X	25 mg/L	09/03/10 09:21 09/03/10 14:29
	Nitrate (NO3) - N	1,000	25 mg/L	09/03/10 09:21 09/03/10 14:29
	Phosphate, ortho - P	ND X	25 mg/L	09/03/10 09:21 09/03/10 14:29
	Sulfate (SO4)	880	100 mg/L	09/03/10 09:21 09/07/10 13:06
Client ID: <b>NGEM-TRON-FL-RSAM-6-S3</b>				
Lab ID: PES10090320-02A	Fluoride	ND X	25 mg/L	09/03/10 09:21 09/03/10 14:47
Date Sampled 09/02/10 14:00	Chloride	100	100 mg/L	09/03/10 09:21 09/07/10 13:24
	Bromide	ND X	25 mg/L	09/03/10 09:21 09/03/10 14:47
	Nitrate (NO3) - N	890	25 mg/L	09/03/10 09:21 09/03/10 14:47
	Phosphate, ortho - P	ND X	25 mg/L	09/03/10 09:21 09/03/10 14:47
	Sulfate (SO4)	2,600	100 mg/L	09/03/10 09:21 09/07/10 13:24

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 California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

9/13/10

Report Date



# Alpha Analytical, Inc.

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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 : 09/03/10

Job: NGEM-TRON-FL

### Perchlorate by Ion Chromatography EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S4 Lab ID : PES10090320-01A Perchlorate Date Sampled 09/02/10 14:00	66,800	2,000 µg/L	09/03/10 10:21	09/03/10
Client ID: NGEM-TRON-FL-RSAM-6-S3 Lab ID : PES10090320-02A Perchlorate Date Sampled 09/02/10 14:00	20,400	2,000 µg/L	09/03/10 10:21	09/03/10

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
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9/3/10

Report Date





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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10090320-01A  
Client I.D. Number: NGEM-TRON-FL-RSAM-5-S4

Sampled: 09/02/10 14:00  
Received: 09/03/10  
Extracted: 09/03/10 10:08  
Analyzed: 09/03/10

### Organochlorine Pesticides EPA Method SW8081A

Compound	Concentration	Reporting Limit
1 alpha-BHC	ND	0.050 µg/L
2 gamma-BHC (Lindane)	ND	0.050 µg/L
3 beta-BHC	ND	0.050 µg/L
4 delta-BHC	ND	0.050 µg/L
5 Heptachlor	ND	0.050 µg/L
6 Aldrin	ND	0.050 µg/L
7 Heptachlor epoxide	ND	0.050 µg/L
8 Endosulfan I	ND	0.050 µg/L
9 4,4'-DDE	ND	0.10 µg/L
10 Dieldrin	ND	0.10 µg/L
11 Endrin	ND	0.10 µg/L
12 4,4'-DDD	ND	0.10 µg/L
13 Endosulfan II	ND	0.10 µg/L
14 Endrin aldehyde	ND	0.10 µg/L
15 4,4'-DDT	ND	0.10 µg/L
16 Endosulfan sulfate	ND	0.10 µg/L
17 Methoxychlor	ND	0.50 µg/L
18 Endrin ketone	ND	0.10 µg/L
19 Toxaphene	ND	5.0 µg/L
20 Chlordane (Technical)	ND	1.0 µg/L
21 Hexachlorobenzene	ND	0.050 µg/L

Sample data was verified by second column confirmation.

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

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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9/8/10

**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10090320-02A  
Client I.D. Number: NGEM-TRON-FL-RSAM-6-S3

Sampled: 09/02/10 14:00  
Received: 09/03/10  
Extracted: 09/03/10 10:08  
Analyzed: 09/03/10

### Organochlorine Pesticides EPA Method SW8081A

Compound	Concentration	Reporting Limit
1 alpha-BHC	ND	0.050 µg/L
2 gamma-BHC (Lindane)	ND	0.050 µg/L
3 beta-BHC	1.9	0.050 µg/L
4 delta-BHC	ND	0.050 µg/L
5 Heptachlor	ND	0.050 µg/L
6 Aldrin	ND	0.050 µg/L
7 Heptachlor epoxide	ND	0.050 µg/L
8 Endosulfan I	ND	0.050 µg/L
9 4,4'-DDE	ND	0.10 µg/L
10 Dieldrin	ND	0.10 µg/L
11 Endrin	ND	0.10 µg/L
12 4,4'-DDD	ND	0.10 µg/L
13 Endosulfan II	ND	0.10 µg/L
14 Endrin aldehyde	ND	0.10 µg/L
15 4,4'-DDT	ND	0.10 µg/L
16 Endosulfan sulfate	ND	0.10 µg/L
17 Methoxychlor	ND	0.50 µg/L
18 Endrin ketone	ND	0.10 µg/L
19 Toxaphene	ND	5.0 µg/L
20 Chlordane (Technical)	ND	1.0 µg/L
21 Hexachlorobenzene	ND	0.050 µg/L

Sample data was verified by second column confirmation.

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

ND = Not Detected

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9/8/10

Report Date



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## ANALYTICAL REPORT

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El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/03/10

Job: NGEM-TRON-FL

Alkalinity  
SM2320B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S4</b>				
Lab ID : PES10090320-01A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	550	20 mg/L	09/09/10
Date Sampled 09/02/10 14:00	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/09/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	680	20 mg/L	09/09/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S3</b>				
Lab ID : PES10090320-02A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	61	20 mg/L	09/08/10
Date Sampled 09/02/10 14:00	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

ND = Not Detected

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

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*e*  
9/13/10

**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 : 09/03/10

Job: NGEM-TRON-FL

### Ammonia as Nitrogen SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S4				
Lab ID : PES10090320-01A Nitrogen, Ammonia (As N)	180	5.0 mg/L	09/13/10	09/13/10
Date Sampled 09/02/10 14:00				
Client ID: NGEM-TRON-FL-RSAM-6-S3				
Lab ID : PES10090320-02A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/13/10	09/13/10
Date Sampled 09/02/10 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  
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*9/13/10*

**Report Date**



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## ANALYTICAL REPORT

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El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/03/10

Job: NGEM-TRON-FL

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
<b>Client ID: NGEM-TRON-FL-RSAM-5-S4</b>				
Lab ID: PES10090320-01A	Boron (B), Dissolved	0.54	0.10 mg/L	09/09/10
Date Sampled 09/02/10 14:00	Sodium (Na), Dissolved	490	0.50 mg/L	09/09/10
	Magnesium (Mg), Dissolved	3.9	0.50 mg/L	09/09/10
	Potassium (K), Dissolved	23	0.50 mg/L	09/09/10
	Calcium (Ca), Dissolved	10	0.50 mg/L	09/09/10
	Chromium (Cr), Dissolved	0.16	0.0050 mg/L	09/09/10
	Manganese (Mn), Dissolved	0.0054	0.0050 mg/L	09/09/10
	Iron (Fe), Dissolved	0.11	0.10 mg/L	09/09/10
	Cobalt (Co), Dissolved	0.033	0.0050 mg/L	09/09/10
	Arsenic (As), Dissolved	0.073	0.0020 mg/L	09/09/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/09/10
<b>Client ID: NGEM-TRON-FL-RSAM-6-S3</b>				
Lab ID: PES10090320-02A	Boron (B), Dissolved	1.3	0.10 mg/L	09/09/10
Date Sampled 09/02/10 14:00	Sodium (Na), Dissolved	500	0.50 mg/L	09/09/10
	Magnesium (Mg), Dissolved	170	0.50 mg/L	09/09/10
	Potassium (K), Dissolved	46	0.50 mg/L	09/09/10
	Calcium (Ca), Dissolved	630	0.50 mg/L	09/09/10
	Chromium (Cr), Dissolved	0.0077	0.0050 mg/L	09/09/10
	Manganese (Mn), Dissolved	0.0095	0.0050 mg/L	09/09/10
	Iron (Fe), Dissolved	2.8	0.10 mg/L	09/09/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/09/10
	Arsenic (As), Dissolved	0.0060	0.0020 mg/L	09/09/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/09/10

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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9/13/10

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 : 09/03/10

Job: NGEM-TRON-FL

---

Total Dissolved Solids (TDS)  
SM2540C

---

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S4				
Lab ID : PES10090320-01A Solids, Total Dissolved (TDS) Date Sampled 09/02/10 14:00	1,600	10 mg/L	09/07/10	09/07/10
Client ID: NGEM-TRON-FL-RSAM-6-S3				
Lab ID : PES10090320-02A Solids, Total Dissolved (TDS) Date Sampled 09/02/10 14:00	4,300	25 mg/L	09/07/10	09/07/10

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

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**9/13/10**

**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 : 09/03/10

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: <b>NGEM-TRON-FL-RSAM-5-S4</b> Lab ID: PES10090320-01A Total Organic Carbon Date Sampled 09/02/10 14:00	30	4.0 mg/L	09/08/10 08:58	09/08/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S3</b> Lab ID: PES10090320-02A Total Organic Carbon Date Sampled 09/02/10 14:00	8.6	4.0 mg/L	09/08/10 08:58	09/08/10

*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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9/13/10

**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 : 09/03/10

Job: NGEM-TRON-FL

Total Suspended Solids  
SM2540D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S4</b>				
Lab ID : PES10090320-01A Solids, Total Suspended (TSS) Date Sampled 09/02/10 14:00	ND	2.5 mg/L	09/07/10	09/07/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S3</b>				
Lab ID : PES10090320-02A Solids, Total Suspended (TSS) Date Sampled 09/02/10 14:00	ND	2.5 mg/L	09/07/10	09/07/10

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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0  
9/13/10

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 : 09/03/10

Job: NGEM-TRON-FL

### Volatile Organics by GC/MS EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S4 Lab ID: PES10090320-01A Chloroform Date Sampled 09/02/10 14:00	ND O	2.0 µg/L	09/07/10	09/07/10
Client ID: NGEM-TRON-FL-RSAM-6-S3 Lab ID: PES10090320-02A Chloroform Date Sampled 09/02/10 14:00	ND O	2.0 µg/L	09/07/10	09/07/10

O = Reporting Limits were increased due to sample foaming.

ND = Not Detected

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.

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9/13/10

**Report Date**



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## VOC Sample Preservation Report

**Work Order:** PES10090320

**Job:** NGEM-TRON-FL

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
10090320-01A	NGEM-TRON-FL-RSAM-5-S4	Aqueous	2
10090320-02A	NGEM-TRON-FL-RSAM-6-S3	Aqueous	2

---

**9/13/10**  
**Report Date**



# Alpha Analytical, Inc.

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Date:  
10-Sep-10

## QC Summary Report

Work Order:  
10090320

### Method Blank

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

File ID: **28**

Batch ID: **24991**

Analysis Date: **09/03/2010 12:56**

Sample ID: **MB-24991**

Units : **mg/L**

Run ID: **IC\_1\_100903A**

Prep Date: **09/03/2010 09:21**

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: **38**

Batch ID: **24991**

Analysis Date: **09/03/2010 16:04**

Sample ID: **LFB-24991**

Units : **mg/L**

Run ID: **IC\_1\_100903A**

Prep Date: **09/03/2010 09:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.46	0.25	5		109	90	110			
Chloride	48.1	0.5	50		96	90	110			
Bromide	5.17	0.25	5		103	90	110			
Nitrate (NO3) - N	5.28	0.25	5		106	90	110			
Phosphate, ortho - P	5.41	0.5	5		108	90	110			
Sulfate (SO4)	99.6	0.5	100		99.6	90	110			

### Sample Matrix Spike

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

File ID: **26**

Batch ID: **24991**

Analysis Date: **09/03/2010 12:19**

Sample ID: **10090205-01ALFM**

Units : **mg/L**

Run ID: **IC\_1\_100903A**

Prep Date: **09/03/2010 09:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.36	0.25	5	0.5069	97	80	120			
Chloride	96.5	0.5	50	63.2	67	80	120			M2
Bromide	5.42	0.25	5	0	108	80	120			
Nitrate (NO3) - N	13.7	0.25	5	8.647	101	80	120			
Phosphate, ortho - P	5.58	0.5	5	0	112	80	120			
Sulfate (SO4)	134	0.5	100	52.35	81	80	120			

### Sample Matrix Spike Duplicate

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

File ID: **27**

Batch ID: **24991**

Analysis Date: **09/03/2010 12:38**

Sample ID: **10090205-01ALFMD**

Units : **mg/L**

Run ID: **IC\_1\_100903A**

Prep Date: **09/03/2010 09:21**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.34	0.25	5	0.5069	97	80	120	5.358	0.3(15)	
Chloride	98	0.5	50	63.2	70	80	120	96.47	1.6(15)	M2
Bromide	5.42	0.25	5	0	108	80	120	5.416	0.1(15)	
Nitrate (NO3) - N	13.9	0.25	5	8.647	106	80	120	13.71	1.6(15)	
Phosphate, ortho - P	5.62	0.5	5	0	112	80	120	5.577	0.8(15)	
Sulfate (SO4)	135	0.5	100	52.35	82	80	120	133.6	0.7(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:  
13-Sep-10

## QC Summary Report

Work Order:  
10090320

### Method Blank

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

File ID: **29** Batch ID: **24993** Analysis Date: **09/03/2010 15:54**  
Sample ID: **MB-24993** Units : **µg/L** Run ID: **IC\_3\_100903A** Prep Date: **09/03/2010 10:21**  
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: **20** Batch ID: **24993** Analysis Date: **09/03/2010 13:09**  
Sample ID: **LFB-24993** Units : **µg/L** Run ID: **IC\_3\_100903A** Prep Date: **09/03/2010 10:21**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Perchlorate 24.7 2 25 99 85 115

### Sample Matrix Spike

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

File ID: **27** Batch ID: **24993** Analysis Date: **09/03/2010 15:18**  
Sample ID: **10090205-01ALFM** Units : **µg/L** Run ID: **IC\_3\_100903A** Prep Date: **09/03/2010 10:21**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Perchlorate 24.6 2 25 0 98 80 120

### Sample Matrix Spike Duplicate

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

File ID: **28** Batch ID: **24993** Analysis Date: **09/03/2010 15:36**  
Sample ID: **10090205-01ALFMD** Units : **µg/L** Run ID: **IC\_3\_100903A** Prep Date: **09/03/2010 10:21**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Perchlorate 25.5 2 25 0 102 80 120 24.59 3.8(15)

### Comments:

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Date:  
13-Sep-10

## QC Summary Report

Work Order:  
10090320

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW8081A**

File ID: **10090310.D**

Batch ID: **24992**

Analysis Date: **09/03/2010 04:49**

Sample ID: **MBLK-24992**

Units : **µg/L**

Run ID: **ECD\_1\_100903A**

Prep Date: **09/03/2010 10:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	ND	0.05								
gamma-BHC (Lindane)	ND	0.05								
beta-BHC	ND	0.05								
delta-BHC	ND	0.05								
Heptachlor	ND	0.05								
Aldrin	ND	0.05								
Heptachlor epoxide	ND	0.05								
Endosulfan I	ND	0.05								
4,4'-DDE	ND	0.1								
Dieldrin	ND	0.1								
Endrin	ND	0.1								
4,4'-DDD	ND	0.1								
Endosulfan II	ND	0.1								
Endrin aldehyde	ND	0.1								
4,4'-DDT	ND	0.1								
Endosulfan sulfate	ND	0.1								
Methoxychlor	ND	0.5								
Endrin ketone	ND	0.1								
Toxaphene	ND	5								
Chlordane (Technical)	ND	1								
Hexachlorobenzene	ND	0.05								
Surr: Tetrachloro-m-xylene	0.36		0.5		72	26	130			
Surr: Decachlorobiphenyl	0.54		0.5		108	31	141			

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8081A**

File ID: **10090311.D**

Batch ID: **24992**

Analysis Date: **09/03/2010 05:01**

Sample ID: **LCS-24992**

Units : **µg/L**

Run ID: **ECD\_1\_100903A**

Prep Date: **09/03/2010 10:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.45	0.05	0.5		90	63	130			
gamma-BHC (Lindane)	0.48	0.05	0.5		96	67	130			
beta-BHC	0.49	0.05	0.5		98	69	130			
delta-BHC	0.46	0.05	0.5		92	70	130			
Heptachlor	0.47	0.05	0.5		94	50	130			
Aldrin	0.48	0.05	0.5		96	37	130			
Heptachlor epoxide	0.5	0.05	0.5		100	70	130			
Endosulfan I	0.29	0.05	0.5		58	44	130			
4,4'-DDE	0.46	0.1	0.5		92	64	130			
Dieldrin	0.51	0.1	0.5		102	70	130			
Endrin	0.55	0.1	0.5		110	70	136			
4,4'-DDD	0.51	0.1	0.5		102	70	130			
Endosulfan II	0.4	0.1	0.5		80	60	130			
4,4'-DDT	0.48	0.1	0.5		96	69	131			
Endosulfan sulfate	0.51	0.1	0.5		102	68	133			
Methoxychlor	0.51	0.5	0.5		102	68	135			
Endrin ketone	0.5	0.1	0.5		100	66	130			
Surr: Tetrachloro-m-xylene	0.38		0.5		76	26	130			
Surr: Decachlorobiphenyl	0.46		0.5		92	31	141			



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Date:  
13-Sep-10

## QC Summary Report

Work Order:  
10090320

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8081A**

File ID: **10090314.D**

Batch ID: **24992**

Analysis Date: **09/03/2010 05:36**

Sample ID: **10090220-01AMS**

Units : **µg/L**

Run ID: **ECD\_1\_100903A**

Prep Date: **09/03/2010 10:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.9	0.05	1	0	90	45	130			
gamma-BHC (Lindane)	0.94	0.05	1	0	94	56	130			
beta-BHC	0.95	0.05	1	0	95	20	152			
delta-BHC	0.78	0.05	1	0	78	39	130			
Heptachlor	1.03	0.05	1	0	103	40	130			
Aldrin	0.84	0.05	1	0	84	20	133			
Heptachlor epoxide	0.9	0.05	1	0	90	62	130			
Endosulfan I	0.72	0.05	1	0	72	32	130			
4,4'-DDE	1.27	0.1	1	0	127	59	130			
Dieldrin	1.18	0.1	1	0	118	66	130			
Endrin	1.01	0.1	1	0	101	58	142			
4,4'-DDD	0.97	0.1	1	0	97	60	130			
Endosulfan II	1.22	0.1	1	0	122	41	130			
4,4'-DDT	0.96	0.1	1	0	96	57	134			
Endosulfan sulfate	0.96	0.1	1	0	96	60	134			
Methoxychlor	1.06	0.5	1	0	106	42	160			
Endrin ketone	0.97	0.1	1	0	97	57	133			
Surr: Tetrachloro-m-xylene	0.71		1		71	26	130			
Surr: Decachlorobiphenyl	1.38		1		138	31	141			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8081A**

File ID: **10090315.D**

Batch ID: **24992**

Analysis Date: **09/03/2010 05:47**

Sample ID: **10090220-01AMSD**

Units : **µg/L**

Run ID: **ECD\_1\_100903A**

Prep Date: **09/03/2010 10:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.94	0.05	1	0	94	45	130	0.9	4.4(20)	
gamma-BHC (Lindane)	1.07	0.05	1	0	107	56	130	0.94	12.9(20)	
beta-BHC	1.06	0.05	1	0	106	20	152	0.95	10.9(20)	
delta-BHC	0.8	0.05	1	0	80	39	130	0.78	2.5(20)	
Heptachlor	1.07	0.05	1	0	107	40	130	1.03	3.8(20)	
Aldrin	0.82	0.05	1	0	82	20	133	0.84	2.4(20)	
Heptachlor epoxide	0.89	0.05	1	0	89	62	130	0.9	1.1(20)	
Endosulfan I	0.52	0.05	1	0	52	32	130	0.72	32.3(20)	R5
4,4'-DDE	1.15	0.1	1	0	115	59	130	1.27	9.9(20)	
Dieldrin	1.16	0.1	1	0	116	66	130	1.18	1.7(20)	
Endrin	1.01	0.1	1	0	101	58	142	1.01	0.0(20)	
4,4'-DDD	0.93	0.1	1	0	93	60	130	0.97	4.2(20)	
Endosulfan II	1.21	0.1	1	0	121	41	130	1.22	0.8(20)	
4,4'-DDT	0.98	0.1	1	0	98	57	134	0.96	2.1(20)	
Endosulfan sulfate	0.95	0.1	1	0	95	60	134	0.96	1.1(20)	
Methoxychlor	1.01	0.5	1	0	101	42	160	1.06	4.8(20)	
Endrin ketone	0.95	0.1	1	0	95	57	133	0.97	2.1(20)	
Surr: Tetrachloro-m-xylene	0.68		1		68	26	130			
Surr: Decachlorobiphenyl	1.44		1		144	31	141			S55

### 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.

S55 = Surrogate recovery was above laboratory acceptance limits.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

Sample data was verified by second column confirmation.



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Date:  
13-Sep-10

## QC Summary Report

Work Order:  
10090320

### Laboratory Control Spike

File ID:	Type <b>LCS</b>	Test Code: <b>SM2320B</b>	Batch ID: <b>W0908AL</b>	Analysis Date: <b>09/08/2010 12:26</b>						
Sample ID: <b>LCS-W0908AL</b>	Units : <b>mg/L</b>	Run ID: <b>WETLAB_100908A</b>	Prep Date: <b>09/08/2010 12:26</b>							
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:

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Date:  
21-Sep-10

## QC Summary Report

Work Order:  
10090320

### Method Blank

Method Blank		Type: MBLK	Test Code: SM4500-NH3D								
File ID:			Batch ID: W0913AM		Analysis Date: 09/13/2010 09:46						
Sample ID:	MBLK-W0913AM	Units : mg/L	Run ID: WETLAB_100913A		Prep Date: 09/13/2010 09:46						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrogen, Ammonia (As N)	ND	0.1									

### Laboratory Control Spike

Laboratory Control Spike		Type: LCS	Test Code: SM4500-NH3D								
File ID:			Batch ID: W0913AM		Analysis Date: 09/13/2010 09:40						
Sample ID:	LCS-W0913AM	Units : mg/L	Run ID: WETLAB_100913A		Prep Date: 09/13/2010 09:40						
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

Sample Matrix Spike		Type: MS	Test Code: SM4500-NH3D								
File ID:			Batch ID: W0913AM		Analysis Date: 09/13/2010 09:53						
Sample ID:	10090320-01AMS	Units : mg/L	Run ID: WETLAB_100913A		Prep Date: 09/13/2010 09:53						
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

Sample Matrix Spike Duplicate		Type: MSD	Test Code: SM4500-NH3D								
File ID:			Batch ID: W0913AM		Analysis Date: 09/13/2010 09:56						
Sample ID:	10090320-01AMSD	Units : mg/L	Run ID: WETLAB_100913A		Prep Date: 09/13/2010 09:56						
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.





# Alpha Analytical, Inc.

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

Date:  
10-Sep-10

## QC Summary Report

Work Order:  
10090320

### Method Blank

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

File ID: **090110.B\060\_M.D\**

Batch ID: **24985**

Analysis Date: **09/01/2010 20:05**

Sample ID: **MB-24985**

Units : **mg/L**

Run ID: **ICP/MS\_100901B**

Prep Date: **09/01/2010 16:18**

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: **090110.B\061\_L.D\**

Batch ID: **24985**

Analysis Date: **09/01/2010 20:11**

Sample ID: **LCS-24985**

Units : **mg/L**

Run ID: **ICP/MS\_100901B**

Prep Date: **09/01/2010 16:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.048	0.1	0.058		83	80	120			
Sodium (Na), Dissolved	4.93	0.5	5		99	80	120			
Magnesium (Mg), Dissolved	4.85	0.5	5		97	80	120			
Potassium (K), Dissolved	5.02	0.5	5		100	80	120			
Calcium (Ca), Dissolved	5.04	0.5	5		101	80	120			
Chromium (Cr), Dissolved	0.0503	0.005	0.05		101	80	120			
Manganese (Mn), Dissolved	0.0513	0.005	0.05		103	80	120			
Iron (Fe), Dissolved	5.18	0.1	5		104	80	120			
Cobalt (Co), Dissolved	0.0507	0.005	0.05		101	80	120			
Arsenic (As), Dissolved	0.0493	0.002	0.05		99	80	120			
Lead (Pb), Dissolved	0.0502	0.005	0.05		100	80	120			

### Sample Matrix Spike

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

File ID: **090110.B\066\_SM.D\**

Batch ID: **24985**

Analysis Date: **09/01/2010 20:39**

Sample ID: **10082604-01AMS**

Units : **mg/L**

Run ID: **ICP/MS\_100901B**

Prep Date: **09/01/2010 16:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	16.4	0.1	0.058	16.92	-980	75	125			M3
Sodium (Na), Dissolved	0	0.5	5	0	0	75	125			M2 *
Magnesium (Mg), Dissolved	45.1	0.5	5	42.32	55	75	125			M3
Potassium (K), Dissolved	86.4	0.5	5	84.99	27	75	125			M3
Calcium (Ca), Dissolved	460	0.5	5	467.9	-150	75	125			M3
Chromium (Cr), Dissolved	0.0466	0.005	0.05	0	93	75	125			
Manganese (Mn), Dissolved	1.14	0.005	0.05	1.135	16	75	125			M3
Iron (Fe), Dissolved	6.78	0.2	5	2.502	85	75	125			
Cobalt (Co), Dissolved	0.0551	0.005	0.05	0.01222	86	75	125			
Arsenic (As), Dissolved	0.828	0.002	0.05	0.8042	48	75	125			M3
Lead (Pb), Dissolved	0.0506	0.005	0.05	0	101	75	125			

### Sample Matrix Spike Duplicate

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

File ID: **090110.B\067\_SMM.D\**

Batch ID: **24985**

Analysis Date: **09/01/2010 20:45**

Sample ID: **10082604-01AMSD**

Units : **mg/L**

Run ID: **ICP/MS\_100901B**

Prep Date: **09/01/2010 16:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	16.8	0.1	0.058	16.92	-240	75	125	16.35	2.6(20)	M3
Sodium (Na), Dissolved	0	0.5	5	0	0	75	125	0	0.0(20)	M2 *
Magnesium (Mg), Dissolved	46.1	0.5	5	42.32	76	75	125	45.09	2.2(20)	
Potassium (K), Dissolved	87.4	0.5	5	84.99	47	75	125	86.35	1.2(20)	M3
Calcium (Ca), Dissolved	472	0.5	5	467.9	84	75	125	460.3	2.5(20)	
Chromium (Cr), Dissolved	0.0481	0.005	0.05	0	96	75	125	0.04662	3.1(20)	
Manganese (Mn), Dissolved	1.16	0.005	0.05	1.135	46	75	125	1.143	1.3(20)	M3
Iron (Fe), Dissolved	6.69	0.2	5	2.502	84	75	125	6.776	1.3(20)	
Cobalt (Co), Dissolved	0.0551	0.005	0.05	0.01222	86	75	125	0.05506	0.0(20)	
Arsenic (As), Dissolved	0.848	0.002	0.05	0.8042	88	75	125	0.8283	2.4(20)	
Lead (Pb), Dissolved	0.0519	0.005	0.05	0	104	75	125	0.05064	2.5(20)	



# Alpha Analytical, Inc.

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

**Date:**  
10-Sep-10

## QC Summary Report

**Work Order:**  
10090320

**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.

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:  
08-Sep-10

## QC Summary Report

Work Order:  
10090320

### Method Blank

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

File ID: Batch ID: **W0827DS** Analysis Date: **08/30/2010 00:00**

Sample ID: **MBLK-W0827DS** Units : **mg/L** Run ID: **WETLAB\_100827C** Prep Date: **08/30/2010 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: **W0827DS** Analysis Date: **08/31/2010 00:00**

Sample ID: **LCS-W0827DS** Units : **mg/L** Run ID: **WETLAB\_100827C** Prep Date: **08/31/2010 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:

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# Alpha Analytical, Inc.

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Date:  
13-Sep-10

## QC Summary Report

Work Order:  
10090320

### Method Blank

Method Blank		Type: MBLK	Test Code: EPA Method SW9060 / SM5310C							
File ID:			Batch ID: 25005				Analysis Date: 09/08/2010 11:20			
Sample ID:	MBLK-25005	Units : mg/L	Run ID: TOC_100908A				Prep Date: 09/08/2010 08:58			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	ND		1							

### Laboratory Control Spike

Laboratory Control Spike		Type: LCS	Test Code: EPA Method SW9060 / SM5310C							
File ID:			Batch ID: 25005				Analysis Date: 09/08/2010 11:45			
Sample ID:	LCS-25005	Units : mg/L	Run ID: TOC_100908A				Prep Date: 09/08/2010 08:58			
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

Sample Matrix Spike		Type: MS	Test Code: EPA Method SW9060 / SM5310C							
File ID:			Batch ID: 25005				Analysis Date: 09/10/2010 11:31			
Sample ID:	10090720-02AMS	Units : mg/L	Run ID: TOC_100908A				Prep Date: 09/08/2010 08:58			
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

Sample Matrix Spike Duplicate		Type: MSD	Test Code: EPA Method SW9060 / SM5310C							
File ID:			Batch ID: 25005				Analysis Date: 09/10/2010 12:00			
Sample ID:	10090720-02AMSD	Units : mg/L	Run ID: TOC_100908A				Prep Date: 09/08/2010 08:58			
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:  
08-Sep-10

## QC Summary Report

Work Order:  
10090320

### Method Blank

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

File ID: Batch ID: **W0827SS** Analysis Date: **08/27/2010 00:00**

Sample ID: **MBLK-W0827SS** Units : **mg/L** Run ID: **WETLAB\_100827A** Prep Date: **08/27/2010 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
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Solids, Total Suspended (TSS)	ND	2.5								
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### Laboratory Control Spike

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

File ID: Batch ID: **W0827SS** Analysis Date: **08/27/2010 00:00**

Sample ID: **LCS-W0827SS** Units : **mg/L** Run ID: **WETLAB\_100827A** Prep Date: **08/27/2010 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
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Solids, Total Suspended (TSS)	75	2.5	100		75	50	140			
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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.



# Alpha Analytical, Inc.

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Date:  
09-Sep-10

## QC Summary Report

Work Order:  
10090320

### Method Blank

File ID: 10090703.D

Sample ID: MBLK MS12W0907A

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	ND	1								
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.62		10		96	70	130			
Surr: 4-Bromofluorobenzene	9.15		10		92	70	130			

### Laboratory Control Spike

File ID: 10090702.D

Sample ID: LCS MS12W0907A

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	10.1	1	10		101	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	10.2		10		102	70	130			

### Sample Matrix Spike

File ID: 10090717.D

Sample ID: 10083147-08AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	47.4	2.5	50	0	95	67	130			
Surr: 1,2-Dichloroethane-d4	53		50		106	70	130			
Surr: Toluene-d8	49.4		50		99	70	130			
Surr: 4-Bromofluorobenzene	51.6		50		103	70	130			

### Sample Matrix Spike Duplicate

File ID: 10090718.D

Sample ID: 10083147-08AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	51.6	2.5	50	0	103	67	130	47.36	8.6(20)	
Surr: 1,2-Dichloroethane-d4	57.6		50		115	70	130			
Surr: Toluene-d8	47.6		50		95	70	130			
Surr: 4-Bromofluorobenzene	49.9		50		99.8	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**

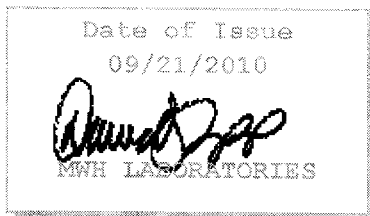
*A Division of MWH Americas, Inc.*

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#: 342679  
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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Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Laboratory  
Hits Report: 342679**

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

Samples Received on:  
09/03/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		<b>201009030170</b>				
09/14/2010	02:39 Chlorate by IC	<b><u>NGEM-TRON-FL-RSAM-5-S4</u></b>	150		ug/L	100
		<b>201009030171</b>				
09/16/2010	04:34 Chlorate by IC	<b><u>NGEM-TRON-FL-RSAM-6-S3</u></b>	340		ug/L	200





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1 800 566 LABS (1 800 566 5227)

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

**Laboratory Data  
Report: 342679**

Samples Received on:  
09/03/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>NGEM-TRON-FL-RSAM-5-S4 (201009030170)</u></b>						<b>Sampled on 09/02/2010 1400</b>		
Variable ID: PES10090320-01A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/14/2010	02:39	569158	(EPA 300.0)	Chlorate by IC	150	ug/L	100	10
<b><u>NGEM-TRON-FL-RSAM-6-S3 (201009030171)</u></b>						<b>Sampled on 09/02/2010 1400</b>		
Variable ID: PES10090320-02A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/16/2010	04:34	569355	(EPA 300.0)	Chlorate by IC	340	ug/L	200	20



**MWH**

**LABORATORIES**

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

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

**Laboratory Comments**  
**Report: #342679**



**MWH**

**LABORATORIES**

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Monrovia, California, 91016-3629  
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**Laboratory**  
**QC Summary: 342679**

Alpha Analytical, Inc.

---

**QC Ref # 569158 - Disinfection ByProducts by 300.0**

201009030170                      NGEM-TRON-FL-RSAM-5-S4

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

Analyzed by: LUPE

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

201009030171                      NGEM-TRON-FL-RSAM-6-S3

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

Analyzed by: LUPE



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: 342679

Alpha Analytical, Inc.

Table with columns: QC Type, Analyte, Native, Spiked, Recovered, Units, Yield (%), Limits (%), RPD Limit (%), RPD%. Contains two main sections for QC Ref# 569158 and QC Ref# 569355, each with an analysis date and multiple rows of data for different analytes and methods.

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 #: 342679

Project #: SUBCONTRACT

Sample Group: Chlorate

Project Manager: David S Tripp

Phone: (626) 386-1158

PO# PES10090320

The following samples were received from you on **September 03, 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>201009030170</u>	NGEM-TRON-FL-RSAM-5-S4 Variable ID: PES10090320-01A Chlorate by IC	02-Sep-2010 1400
<u>201009030171</u>	NGEM-TRON-FL-RSAM-6-S3 Variable ID: PES10090320-02A Chlorate by IC	02-Sep-2010 1400

### Test Description



# Laboratory Report

## Report ID: 107993

**Sierra  
Environmental  
Monitoring, Inc.**

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

**Date:** 9/13/2010  
**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:**

  
Sierra Environmental Monitoring, Inc.

9/13/2010

**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: 107993**

**Sierra  
 Environmental  
 Monitoring, Inc.**

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

**Date:** 9/13/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Analysis Report***

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0183	PES10090320-01 - NGEM-TRON-FL-RSAM-5-S4	9/2/2010	2:00 PM	9/3/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/7/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/7/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0184	PES10090320-02 - NGEM-TRON-FL-RSAM-6-S3	9/2/2010	2:00 PM	9/3/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/7/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/7/2010	

*Data Flag Legend:*



**Laboratory Report**  
**Report ID: 107993**

**Sierra  
 Environmental  
 Monitoring, Inc.**

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

**Date:** 9/13/2010  
**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	98.0	87.0	90.0	2.82	<0.02 mg/L

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



Billing Information :

# CHAIN-OF-CUSTODY RECORD

# RUSH!

Page: 1 of 2

## Alpha Analytical, Inc.

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

WorkOrder : PES10090320

Report Due By : 5:00 PM On : 13-Sep-10

*Perchlorate due 9-7-10*

EDD Required : No

Sampled by : CL

Cooler Temp 2 °C Samples Received 03-Sep-10 Date Printed 03-Sep-10

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

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

Client's COC # : 32775, 32774 Job : NGENM-TRON-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	300 g(D)_w	300_o_w		314_w	8081_w	ALKALINITY_w	AMMONIA_w
PES10090320-01A	NGEM-TRON-FL-RSAM-5-S4	09/02/10 14:00	12	2	5	Br, Cl, F, SO4, NO3, PO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total HCO3 Hydroxide	NH3	Uranium, Dissolved	Special List
PES10090320-02A	NGEM-TRON-FL-RSAM-6-S3	09/02/10 14:00	12	2	5	Br, Cl, F, SO4, NO3, PO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total HCO3 Hydroxide	NH3	Uranium, Dissolved	Special List

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/7/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. Conductivity <100mS. TOC pH=1.1.

Logged in by: *K Murray* Signature *K Murray* Print Name *K Murray* Company Alpha Analytical, Inc. Date/Time 9/3/10 0930

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

# CA

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

**WorkOrder : PES10090320**  
**Report Due By : 5:00 PM On : 13-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 Samples Received Date Printed

2 °C 03-Sep-10 03-Sep-10

Client's COC # : 32775, 32774 Job : NGENM-TRON-FL  
 OC 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		
PES10090320-01A	NGEM-TRON-FL-RSAM-5-S4	09/02/10 14:00	12 2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_c	
PES10090320-02A	NGEM-TRON-FL-RSAM-6-S3	09/02/10 14:00	12 2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_c	

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/7/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. Conductivity <100mS. TOC pH=1.1.

Logged in by: K Murray Signature K Murray Print Name K Murray Company Alpha Analytical, Inc. Date/Time 9/3/10 0930

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**Billings Information:**

Cor: **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: **5070 Robert J. Matthews Parkway, Suite 300**  
 Adc: **El Dorado Hills, CA 95762**  
 City: **PH: 916-939-7300**  
 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 #** 1 **of** 2

**Analyses Required**

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 type="checkbox"/>
Metals (6020)	<input checked="" type="checkbox"/>

**Data Validation**  
 Level: III or IV

EDD / EDF? YES \_\_\_ NO \_\_\_  
 Global ID # \_\_\_\_\_

**REMARKS**

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Use Only)	Office (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Perchlorate (314)	Alkalinity (301.1)	Anions (300)	TDS (160.1)	Ammonia (350.3)	Chlorate (300)	Metals (6020)	REMARKS
1400	9/10/10	AQ		PE510D90320-01		N&EM-TRON-FL-RS AM-5-54	24hr		3-V	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Alkalinity: total, HCO <sub>3</sub> , hydroxide
						-RSAM-6-53				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Anions: unpreserved: (Br, Cl, F, SO <sub>4</sub> )
						N&EM-TRON-FL-RSAM-5-54			4-P	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	preserved: (NO <sub>3</sub> , O-PO <sub>4</sub> )
						-RSAM-6-53				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Metals: (As, B, Ca, Cd, Co, Fe, K, Pb, Mg, Mn, Na) & (V)
						-RSAM-6-53				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	metals are filtered
						-SA-189-53				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

**ADDITIONAL INSTRUCTIONS:** Conductivity ≤ 100 uS

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: ed

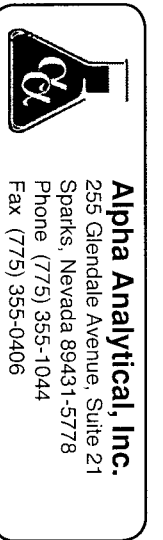
Relinquished by: (Signature/Affiliation) <u>ed</u> Prima	Received by: (Signature/Affiliation) <u>San J. Blaine</u>	Date: 9/10/10	Time: 4:30
Relinquished by: (Signature/Affiliation) <u>ed</u> Prima	Received by: (Signature/Affiliation) <u>Ed Murray</u>	Date: 9/3/10	Time: 09:30

\*Key: AQ - Aqueous    SO - Soil    WA - Waste    OT - Other    AR - Air    \*\* - L-Liter    V-Voa    S-Soil Jar    O-Orho    T-Tecliar    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:**

Co **PRIMA ENVIRONMENTAL, Inc.**  
 Att **5070 Robert J. Matthews Parkway, Suite 300**  
 Ad **EI Dorado Hills, CA 95762**  
 Cit **PH: 916-939-7300**  
 Ph **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** 2 **of** 2  
 Page # 2 of 2

Job # \_\_\_\_\_ Job Name **NGEM-TRON-FL**

Name: **Cindy Schreier**  
 Report Attention / Project Manager  
 Email: **data@primaenvironmental.com**  
 Phone: \_\_\_\_\_ Mobile: \_\_\_\_\_

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required				REMARKS		
1400	9/2/10	AQ		PE510D96320-01	NGEM-TRON-FL-RSAM-5-34	50		3/1, 20T	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		TOC (9060) TSS (160.2) 8081a Chloroform (8260)	8081a = organochlorine pesticides + hexa-chlorobenzene
1400	9/2/10	AQ			-RSAM-6-53		3V, 12T	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

**ADDITIONAL INSTRUCTIONS:** Conductivity ≤ 1000 S

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: CA

Relinquished by: (Signature/Affiliation) <u>RS</u>	Prima	Received by: (Signature/Affiliation) <u>Donna Schreier</u>	Date: <u>9/2/10</u>	Time: <u>1505</u>
Relinquished by: (Signature/Affiliation) <u>Donna Schreier</u>	Prima	Received by: (Signature/Affiliation) <u>Donna Schreier</u>	Date: <u>9/2/10</u>	Time: <u>1505</u>
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-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.



# 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 : 09/04/10

Job: NGEM-TRON-FL

Anions by IC  
EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S5</b>				
Lab ID : PES10090720-01A Fluoride	ND X	25 mg/L	09/08/10 10:49	09/08/10 14:43
Date Sampled 09/03/10 12:25 Chloride	ND X	100 mg/L	09/08/10 10:49	09/08/10 14:43
Bromide	ND X	25 mg/L	09/08/10 10:49	09/08/10 14:43
Nitrate (NO3) - N	ND X*	25 mg/L	09/08/10 10:49	09/08/10 15:01
Phosphate, ortho - P	ND X	100 mg/L	09/08/10 10:49	09/08/10 14:43
Sulfate (SO4)	350	100 mg/L	09/08/10 10:49	09/08/10 14:43
Client ID: <b>NGEM-TRON-FL-RSAM-6-S4</b>				
Lab ID : PES10090720-02A Fluoride	ND X	25 mg/L	09/08/10 10:49	09/08/10 15:20
Date Sampled 09/03/10 12:26 Chloride	ND X	100 mg/L	09/08/10 10:49	09/08/10 15:20
Bromide	ND X	25 mg/L	09/08/10 10:49	09/08/10 15:20
Nitrate (NO3) - N	ND X*	25 mg/L	09/08/10 10:49	09/08/10 15:38
Phosphate, ortho - P	ND X	100 mg/L	09/08/10 10:49	09/08/10 15:20
Sulfate (SO4)	1,600	100 mg/L	09/08/10 10:49	09/08/10 15:20

\*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 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.

9/14/10

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 : 09/04/10

Job: NGEM-TRON-FL

Perchlorate by Ion Chromatography  
EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S5 Lab ID : PES10090720-01A Perchlorate Date Sampled 09/03/10 12:25	23,800	2,000 µg/L	09/07/10 11:03	09/07/10
Client ID: NGEM-TRON-FL-RSAM-6-S4 Lab ID : PES10090720-02A Perchlorate Date Sampled 09/03/10 12:26	3,240	200 µg/L	09/07/10 11:03	09/07/10

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/7/10

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 : 09/04/10

Job: NGEM-TRON-FL

Alkalinity  
SM2320B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S5				
Lab ID : PES10090720-01A Alkalinity, Bicarbonate (As CaCO3)	560	20 mg/L	09/08/10	09/08/10
Date Sampled 09/03/10 12:25 Alkalinity, Hydroxide (As CaCO3)	ND	20 mg/L	09/08/10	09/08/10
Alkalinity, Total (As CaCO3 at pH 4.5)	740	20 mg/L	09/08/10	09/08/10
Client ID: NGEM-TRON-FL-RSAM-6-S4				
Lab ID : PES10090720-02A Alkalinity, Bicarbonate (As CaCO3)	85	20 mg/L	09/08/10	09/08/10
Date Sampled 09/03/10 12:26 Alkalinity, Hydroxide (As CaCO3)	ND	20 mg/L	09/08/10	09/08/10
Alkalinity, Total (As CaCO3 at pH 4.5)	85	20 mg/L	09/08/10	09/08/10

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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9/14/10

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 : 09/04/10

Job: NGEM-TRON-FL

### Ammonia as Nitrogen SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S5</b>				
Lab ID: PES10090720-01A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/13/10	09/13/10
Date Sampled 09/03/10 12:25				
Client ID: <b>NGEM-TRON-FL-RSAM-6-S4</b>				
Lab ID: PES10090720-02A Nitrogen, Ammonia (As N)	ND X	1.0 mg/L	09/13/10	09/13/10
Date Sampled 09/03/10 12:26				

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  
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9/14/10

Report Date





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## ANALYTICAL REPORT

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/04/10

Job: NGEM-TRON-FL

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID: <b>NGEM-TRON-FL-RSAM-5-S5</b>					
Lab ID : PES10090720-01A	Boron (B), Dissolved	0.49	0.10 mg/L	09/07/10 14:17	09/09/10
Date Sampled 09/03/10 12:25	Sodium (Na), Dissolved	330	0.50 mg/L	09/07/10 14:17	09/09/10
	Magnesium (Mg), Dissolved	1.6	0.50 mg/L	09/07/10 14:17	09/09/10
	Potassium (K), Dissolved	16	0.50 mg/L	09/07/10 14:17	09/09/10
	Calcium (Ca), Dissolved	4.2	0.50 mg/L	09/07/10 14:17	09/09/10
	Chromium (Cr), Dissolved	0.15	0.0050 mg/L	09/07/10 14:17	09/09/10
	Manganese (Mn), Dissolved	ND	0.0050 mg/L	09/07/10 14:17	09/09/10
	Iron (Fe), Dissolved	0.13	0.10 mg/L	09/07/10 14:17	09/09/10
	Cobalt (Co), Dissolved	0.022	0.0050 mg/L	09/07/10 14:17	09/09/10
	Arsenic (As), Dissolved	0.10	0.0020 mg/L	09/07/10 14:17	09/09/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/07/10 14:17	09/09/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S4</b>					
Lab ID : PES10090720-02A	Boron (B), Dissolved	1.3	0.10 mg/L	09/07/10 14:17	09/09/10
Date Sampled 09/03/10 12:26	Sodium (Na), Dissolved	340	0.50 mg/L	09/07/10 14:17	09/09/10
	Magnesium (Mg), Dissolved	100	0.50 mg/L	09/07/10 14:17	09/09/10
	Potassium (K), Dissolved	32	0.50 mg/L	09/07/10 14:17	09/09/10
	Calcium (Ca), Dissolved	360	0.50 mg/L	09/07/10 14:17	09/09/10
	Chromium (Cr), Dissolved	0.0057	0.0050 mg/L	09/07/10 14:17	09/09/10
	Manganese (Mn), Dissolved	0.0052	0.0050 mg/L	09/07/10 14:17	09/09/10
	Iron (Fe), Dissolved	1.6	0.10 mg/L	09/07/10 14:17	09/09/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/07/10 14:17	09/09/10
	Arsenic (As), Dissolved	0.0065	0.0020 mg/L	09/07/10 14:17	09/09/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/07/10 14:17	09/09/10

ND = Not Detected

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

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

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9/14/10

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 : 09/04/10

Job: NGEM-TRON-FL

Total Dissolved Solids (TDS)  
SM2540C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S5</b>				
Lab ID : PES10090720-01A Solids, Total Dissolved (TDS)	960	10 mg/L	09/13/10	09/13/10
Date Sampled 09/03/10 12:25				
Client ID: <b>NGEM-TRON-FL-RSAM-6-S4</b>				
Lab ID : PES10090720-02A Solids, Total Dissolved (TDS)	2,600	10 mg/L	09/13/10	09/13/10
Date Sampled 09/03/10 12:26				

*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.

9/14/10

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 : 09/04/10

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: NGEM-TRON-FL-RSAM-5-S5				
Lab ID : PES10090720-01A Total Organic Carbon Date Sampled 09/03/10 12:25	13	4.0 mg/L	09/08/10 08:58	09/08/10
Client ID: NGEM-TRON-FL-RSAM-6-S4				
Lab ID : PES10090720-02A Total Organic Carbon Date Sampled 09/03/10 12:26	4.7	1.0 mg/L	09/08/10 08:58	09/10/10

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/14/10

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 : 09/04/10

Job: NGEM-TRON-FL

Total Suspended Solids  
SM2540D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S5</b>				
Lab ID : PES10090720-01A Solids, Total Suspended (TSS) Date Sampled 09/03/10 12:25	ND	2.5 mg/L	09/13/10	09/13/10
Client ID: <b>NGEM-TRON-FL-RSAM-6-S4</b>				
Lab ID : PES10090720-02A Solids, Total Suspended (TSS) Date Sampled 09/03/10 12:26	5.7	2.5 mg/L	09/13/10	09/13/10

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/14/10

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 : 09/04/10

Job: NGEM-TRON-FL

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

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : <b>NGEM-TRON-FL-RSAM-5-S5</b>				
Lab ID : PES10090720-01A    Chloroform	ND	1.0 µg/L	09/09/10	09/09/10
Date Sampled 09/03/10 12:25				
Client ID : <b>NGEM-TRON-FL-RSAM-6-S4</b>				
Lab ID : PES10090720-02A    Chloroform	ND	1.0 µg/L	09/09/10	09/09/10
Date Sampled 09/03/10 12:26				

ND = Not Detected

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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.

9/14/10

**Report Date**



# Alpha Analytical, Inc.

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---

## VOC Sample Preservation Report

**Work Order:** PES10090720

**Job:** NGEM-TRON-FL

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
10090720-01A	NGEM-TRON-FL-RSAM-5-S5	Aqueous	2
10090720-02A	NGEM-TRON-FL-RSAM-6-S4	Aqueous	2

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**9/14/10**  
**Report Date**

*Page 1 of 1*



# Alpha Analytical, Inc.

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Date:  
24-Sep-10

## QC Summary Report

Work Order:  
10090720

### 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.



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Date:  
24-Sep-10

## QC Summary Report

Work Order:  
10090720

### Method Blank

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

File ID: **14**

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

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

File ID: **15**

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

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

File ID: **20**

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

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

File ID: **21**

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:  
13-Sep-10

## QC Summary Report

Work Order:  
10090720

### 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:  
24-Sep-10

## QC Summary Report

Work Order:  
10090720

### 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.



# Alpha Analytical, Inc.

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Date:  
24-Sep-10

## QC Summary Report

Work Order:  
10090720

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\060\_M.D\**

Batch ID: **24985**

Analysis Date: **09/01/2010 20:05**

Sample ID: **MB-24985**

Units : **mg/L**

Run ID: **ICP/MS\_100901B**

Prep Date: **09/01/2010 16:18**

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 SW6020 / SW6020A**

File ID: **090110.B\061\_L.D\**

Batch ID: **24985**

Analysis Date: **09/01/2010 20:11**

Sample ID: **LCS-24985**

Units : **mg/L**

Run ID: **ICP/MS\_100901B**

Prep Date: **09/01/2010 16:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.048	0.1	0.058		83	80	120			
Sodium (Na), Dissolved	4.93	0.5	5		99	80	120			
Magnesium (Mg), Dissolved	4.85	0.5	5		97	80	120			
Potassium (K), Dissolved	5.02	0.5	5		100	80	120			
Calcium (Ca), Dissolved	5.04	0.5	5		101	80	120			
Chromium (Cr), Dissolved	0.0503	0.005	0.05		101	80	120			
Manganese (Mn), Dissolved	0.0513	0.005	0.05		103	80	120			
Iron (Fe), Dissolved	5.18	0.1	5		104	80	120			
Cobalt (Co), Dissolved	0.0507	0.005	0.05		101	80	120			
Arsenic (As), Dissolved	0.0493	0.002	0.05		99	80	120			
Lead (Pb), Dissolved	0.0502	0.005	0.05		100	80	120			

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\066\_SM.D\**

Batch ID: **24985**

Analysis Date: **09/01/2010 20:39**

Sample ID: **10082604-01AMS**

Units : **mg/L**

Run ID: **ICP/MS\_100901B**

Prep Date: **09/01/2010 16:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	16.4	0.1	0.058	16.92	-980	75	125			M3
Sodium (Na), Dissolved	2530	0.5	5	2312	4360	75	125			M3
Magnesium (Mg), Dissolved	45.1	0.5	5	42.32	55	75	125			M3
Potassium (K), Dissolved	86.4	0.5	5	84.99	27	75	125			M3
Calcium (Ca), Dissolved	460	0.5	5	467.9	-150	75	125			M3
Chromium (Cr), Dissolved	0.0466	0.005	0.05	0	93	75	125			
Manganese (Mn), Dissolved	1.14	0.005	0.05	1.135	16	75	125			M3
Iron (Fe), Dissolved	6.78	0.2	5	2.502	85	75	125			
Cobalt (Co), Dissolved	0.0551	0.005	0.05	0.01222	86	75	125			
Arsenic (As), Dissolved	0.828	0.002	0.05	0.8042	48	75	125			M3
Lead (Pb), Dissolved	0.0506	0.005	0.05	0	101	75	125			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\067\_SMM.D\**

Batch ID: **24985**

Analysis Date: **09/01/2010 20:45**

Sample ID: **10082604-01AMSD**

Units : **mg/L**

Run ID: **ICP/MS\_100901B**

Prep Date: **09/01/2010 16:18**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	16.8	0.1	0.058	16.92	-240	75	125	16.35	2.6(20)	M3
Sodium (Na), Dissolved	2570	0.5	5	2312	5120	75	125	2530	1.5(20)	M3
Magnesium (Mg), Dissolved	46.1	0.5	5	42.32	76	75	125	45.09	2.2(20)	
Potassium (K), Dissolved	87.4	0.5	5	84.99	47	75	125	86.35	1.2(20)	M3
Calcium (Ca), Dissolved	472	0.5	5	467.9	84	75	125	460.3	2.5(20)	
Chromium (Cr), Dissolved	0.0481	0.005	0.05	0	96	75	125	0.04662	3.1(20)	
Manganese (Mn), Dissolved	1.16	0.005	0.05	1.135	46	75	125	1.143	1.3(20)	M3
Iron (Fe), Dissolved	6.69	0.2	5	2.502	84	75	125	6.776	1.3(20)	
Cobalt (Co), Dissolved	0.0551	0.005	0.05	0.01222	86	75	125	0.05506	0.0(20)	
Arsenic (As), Dissolved	0.848	0.002	0.05	0.8042	88	75	125	0.8283	2.4(20)	
Lead (Pb), Dissolved	0.0519	0.005	0.05	0	104	75	125	0.05064	2.5(20)	



# *Alpha Analytical, Inc.*

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

**Date:**  
24-Sep-10

## QC Summary Report

**Work Order:**  
10090720

**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:  
10090720

### 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.



# Alpha Analytical, Inc.

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

Date:  
13-Sep-10

## QC Summary Report

Work Order:  
10090720

### Method Blank

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

File ID: Batch ID: **25005** Analysis Date: **09/08/2010 11:20**  
Sample ID: **MBLK-25005** Units : **mg/L** Run ID: **TOC\_100908A** Prep Date: **09/08/2010 08:58**  
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: **25005** Analysis Date: **09/08/2010 11:45**  
Sample ID: **LCS-25005** Units : **mg/L** Run ID: **TOC\_100908A** Prep Date: **09/08/2010 08:58**  
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: **25005** Analysis Date: **09/10/2010 11:31**  
Sample ID: **10090720-02AMS** Units : **mg/L** Run ID: **TOC\_100908A** Prep Date: **09/08/2010 08:58**  
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: **25005** Analysis Date: **09/10/2010 12:00**  
Sample ID: **10090720-02AMSD** Units : **mg/L** Run ID: **TOC\_100908A** Prep Date: **09/08/2010 08:58**  
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.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

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

Date:  
24-Sep-10

## QC Summary Report

Work Order:  
10090720

### 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

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

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:  
10-Sep-10

## QC Summary Report

Work Order:  
10090720

### Method Blank

File ID: 10090904.D

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

Batch ID: **MS12W0909A**

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

Sample ID: **MBLK MS12W0909A**

Units : **µg/L**

Run ID: **MSD\_12\_100909A**

Prep Date: **09/09/2010 09:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	ND		1							
Surr: 1,2-Dichloroethane-d4	12		10		120	70	130			
Surr: Toluene-d8	9.82		10		98	70	130			
Surr: 4-Bromofluorobenzene	8.97		10		90	70	130			

### Laboratory Control Spike

File ID: 10090902.D

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

Batch ID: **MS12W0909A**

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

Sample ID: **LCS MS12W0909A**

Units : **µg/L**

Run ID: **MSD\_12\_100909A**

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

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	10.6		1	10	106	80	120			
Surr: 1,2-Dichloroethane-d4	12		10		120	70	130			
Surr: Toluene-d8	9.51		10		95	70	130			
Surr: 4-Bromofluorobenzene	9.94		10		99	70	130			

### Sample Matrix Spike

File ID: 10090912.D

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

Batch ID: **MS12W0909A**

Analysis Date: **09/09/2010 13:02**

Sample ID: **10090841-02AMS**

Units : **µg/L**

Run ID: **MSD\_12\_100909A**

Prep Date: **09/09/2010 13:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	51.9	2.5	50	0	104	67	130			
Surr: 1,2-Dichloroethane-d4	60.9		50		122	70	130			
Surr: Toluene-d8	46.3		50		93	70	130			
Surr: 4-Bromofluorobenzene	48.5		50		97	70	130			

### Sample Matrix Spike Duplicate

File ID: 10090913.D

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

Batch ID: **MS12W0909A**

Analysis Date: **09/09/2010 13:25**

Sample ID: **10090841-02AMSD**

Units : **µg/L**

Run ID: **MSD\_12\_100909A**

Prep Date: **09/09/2010 13:25**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	53.7	2.5	50	0	107	67	130	51.89	3.4(20)	
Surr: 1,2-Dichloroethane-d4	59.5		50		119	70	130			
Surr: Toluene-d8	46.6		50		93	70	130			
Surr: 4-Bromofluorobenzene	48.6		50		97	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**

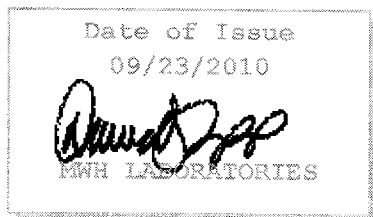
*A Division of MWH Americas, Inc.*

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



DST: David S Tripp  
Project Manager



Report#: 342878  
Project: SUBCONTRACT  
Group: Chlorate

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.



**MWH**  
**LABORATORIES**

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

Laboratory  
Hits Report: 342878

**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
	<b>201009080284</b>	<b><u>NGEM-TRON-FL-RSAM-5-S5</u></b>				
09/20/2010	22:24 Chlorate by IC		180		ug/L	20
	<b>201009080285</b>	<b><u>NGEM-TRON-FL-RSAM-6-S4</u></b>				
09/16/2010	06:39 Chlorate by IC		65		ug/L	10



**MWH**  
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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)

**Alpha Analytical, Inc.**

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

**Laboratory Data  
Report: 342878**

Samples Received on:  
09/08/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>NGEM-TRON-FL-RSAM-5-S5 (201009080284)</u></b>						<b>Sampled on 09/03/2010 1225</b>		
Variable ID: PES10090720-01A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/20/2010	22:24	569892	(EPA 300.0)	Chlorate by IC	180	ug/L	20	2
<b><u>NGEM-TRON-FL-RSAM-6-S4 (201009080285)</u></b>						<b>Sampled on 09/03/2010 1226</b>		
Variable ID: PES10090720-02A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/16/2010	06:39	569355	(EPA 300.0)	Chlorate by IC	65	ug/L	10	1



**MWH**

**LABORATORIES**

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750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
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Alpha Analytical, Inc.  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

---

**Laboratory Comments**  
**Report: #342878**



**MWH**

**LABORATORIES**

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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  
QC Summary: 342878

Alpha Analytical, Inc.

---

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

201009080285                      NGEM-TRON-FL-RSAM-6-S4

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

Analyzed by: LUPE

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

201009080284                      NGEM-TRON-FL-RSAM-5-S5

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

Analyzed by: LUPE



**MWH**  
**LABORATORIES**

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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  
QC Report: 342878

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<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
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 #: 342878  
 Project #: SUBCONTRACT  
 Sample Group: Chlorate  
 Project Manager: David S Tripp  
 Phone: (626) 386-1158  
 PO# PES10090720

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
201009080284	NGEM-TRON-FL-RSAM-5-S5 Variable ID: PES10090720-01A Chlorate by IC RUSH	03-Sep-2010 1225
201009080285	NGEM-TRON-FL-RSAM-6-S4 Variable ID: PES10090720-02A Chlorate by IC RUSH	03-Sep-2010 1226

**Test Description**



**Laboratory Report**  
**Report ID: 108034**

**Sierra  
Environmental  
Monitoring, Inc.**

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

**Date:** 9/13/2010  
**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 be "John C. Seher", is written over a horizontal line.

Sierra Environmental Monitoring, Inc.

**Date:**

9/13/2010

**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: 108034**

**Sierra  
Environmental  
Monitoring, Inc.**

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

**Date:** 9/13/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Analysis Report***

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received			
S201009-0293	PES10090720-01 - NGEM-TRON-FL-RSAM-5-S5	9/3/2010	12:25 PM	9/7/2010			
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/8/2010	
Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/9/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received			
S201009-0294	PES10090720-02 - NGEM-TRON-FL-RSAM-6-S4	9/3/2010	12:26 PM	9/7/2010			
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/8/2010	
Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/9/2010	

*Data Flag Legend:*



**Laboratory Report**  
**Report ID: 108034**

**Sierra  
Environmental  
Monitoring, Inc.**

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

**Date:** 9/13/2010  
**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	100.0	111.0	116.0	4.41	<0.02 mg/L

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

# Work Order Information

**PES10090720**

Wednesday, September 08, 2010 03:49 PM

AMENDED

Amended 9/8/10 15:50 to sub 8081 to CLS, per Randy.KM

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 : PES10090720**  
**Report Due By : 5:00 PM On : 14-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

Cooler Temp: 2 °C  
 Samples Received: 04-Sep-10  
 Date Printed: 08-Sep-10

Client's COC # : 32778, 32779  
 Job : NGEM-TRON-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	METALS_A DD_DS	METALS_D S	
PES10090720-01A	NGEM-TRON-FL-RSAM-5-S5	09/03/10 12:25	11	3	5	Br, Cl, F, SO4, NO3, PO4, Chlorate	Br, Cl, F, SO4, NO3, PO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	8081 subbed to CLS.
PES10090720-02A	NGEM-TRON-FL-RSAM-6-S4	09/03/10 12:26	12	3	5	Br, Cl, F, SO4, NO3, PO4, Chlorate	Br, Cl, F, SO4, NO3, PO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List	8081 subbed to CLS.

**Comments:** No security seals. Frozen ice. Perchlorate on ASAP TAT per Randy, due 9/7/10. Samples rec'd Sat. 9/4/10. kept cold and secure until login on 9/7/10. Chlorate subbed to Montgomery Watson. Uranium subbed to SEM. Metals are filtered. Conductivity: . 1.885 uS for 01A and 2.3ms for 02A. TOC pH=2. PO4 rec'd outside of 48 Hr holding time for an unpreserved bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis.

Logged in by: K Murray K Murray  
 Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_  
 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 : AQA(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**

AMENDED

**Alpha Analytical, Inc.**

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

**WorkOrder : PES10090720**

**Report Due By : 5:00 PM On : 14-Sep-10**

Client:

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

Report Attention

Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

EDD Required : No

Sampled by : CL

Cooler Temp

2 °C

Samples Received

04-Sep-10

Date Printed

08-Sep-10

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

Job : NGEM-TRON-FL

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	Chloroform_N	
PES10090720-01A	NGEM-TRON-FL-RSAM-5-S5	09/03/10 12:25	11	3	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N	8081 subbed to CLS.
PES10090720-02A	NGEM-TRON-FL-RSAM-6-S4	09/03/10 12:26	12	3	5	TDS/TSS	TOC	TDS/TSS	Chloroform_N	8081 subbed to CLS.

Comments:

No security seals. Frozen ice. Perchlorate on ASAP TAT per Randy. due 9/7/10. Samples rec'd Sat. 9/4/10. kept cold and secure until login on 9/7/10. Chlorate subbed to Montgomery Watson. Uranium subbed to SEM. Metals are filtered. Conductivity : 1,885 uS for 01A and 2,3mS for 02A. TOC pH=2. PO4 rec'd outside of 48 Hr holding time & OK to analyze. per Cindy. NO3 rec'd outside of 48 Hr holding time for an unpreserved bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis.

Signature

*K. Murray*

Print Name

*K. Murray*

Company

Alpha Analytical, Inc.

Date/Time

9/8/10 1:55D

Logged in by:

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 : PES10090720

Report Due By : 5:00 PM On : 14-Sep-10

*Purchase order due 9-7-10*

EDD Required : No

Sampled by : CL

Cooler Temp 2 °C Samples Received 04-Sep-10 Date Printed 07-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

Client's COC # : 32778, 32779 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				
				300 (I/D) W	300_0_W	314_W	8081_W		ALKALINITY_W	AMMONIA_W	METALS_A DD_DS	METALS_D S
PES10090720-01A	NGEM-TRON-FL-RSAM-5-S5	09/03/10 12:25	12 2	5	Br, Cl, F, SO4, NO3, PO4, Chlorate	Br, Cl, F, SO4, NO3, PO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List
PES10090720-02A	NGEM-TRON-FL-RSAM-6-S4	09/03/10 12:26	12 2	5	Br, Cl, F, SO4, NO3, PO4, Chlorate	Br, Cl, F, SO4, NO3, PO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total, HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List

Comments: No security seals. Frozen ice. Perchlorate on ASAP TAT per Randy, due 9/7/10. Samples rec'd Sat. 9/4/10, kept cold and secure until login on 9/7/10. Chlorate subdued to Montgomery Watson. Uranium subdued to SEM. Metals are filtered. Conductivity: 1.885 uS for 01A and 2.3ms for 02A. TOC, pH=2. PO4 rec'd outside of 48 Hr holding time & OK to analyze, per Cindy. NO3 rec'd outside of 48 Hr holding time for an unpreserved bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis.

Logged in by: K Murray Signature K Murray Print Name K Murray Company Alpha Analytical, Inc. Date/Time 9/7/10 0915

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

# RECEIVED

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

**WorkOrder : PES10090720**  
**Report Due By : 5:00 PM On : 14-Sep-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  
 Cindy Schreier

EDD Required : No

Sampled by : CL

PO : Cooler Temp 2 °C Samples Received 04-Sep-10 Date Printed 07-Sep-10

Client's COC # : 32778, 32779 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		
PES10090720-01A	NGEM-TRON-FL-RSAM-5-S5	09/03/10 12:25	12	2	5	TDS/TSS	TOC	TDS/TSS	Chlorofom_N	
PES10090720-02A	NGEM-TRON-FL-RSAM-6-S4	09/03/10 12:26	12	2	5	TDS/TSS	TOC	TDS/TSS	Chlorofom_N	

**Comments:**

No security seals. Frozen ice. Perchlorate on ASAP TAT per Randy, due 9/7/10. Samples rec'd Sat. 9/4/10, kept cold and secure until login on 9/7/10. Chlorate subbed to Montgomery Watson. Uranium subbed to SEM. Metals are filtered. Conductivity: .1,885 uS for 01A and 2.3ms for 02A. TOC, pH=2. PO4 rec'd outside of 48 Hr holding time & OK to analyze. per Cindy. NO3 rec'd outside of 48 Hr holding time for an unpreserved bottle, therefore the H2SO4 preserved bottle will be used for NO3 analysis.

Logged in by: K Murray Signature K Murray Print Name K Murray Company Alpha Analytical, Inc. Date/Time 9/7/10 09:15

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:**

Company: **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: **5070 Robert J. Mathews Parkway, Suite 300**  
 Address: **EI Dorado Hills, CA 95762**  
 City, St: **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** 32778  
 Page # 1 of 2

**Analyses Required**

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 (350.2)	<input checked="" type="checkbox"/>
Chlorate (30e)	<input checked="" type="checkbox"/>
Metals (6020)	<input checked="" type="checkbox"/>

**Data Validation**  
 Level: III or IV

EDD / EDF? YES  NO   
 Global ID # \_\_\_\_\_  
**REMARKS**

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Perchlorate (314)	Alkalinity (301.1)	Anions (300)	TDS (160.1)	Ammonia (350.2)	Chlorate (30e)	Metals (6020)	REMARKS
1225	9/3/10	AQ		PES10090720-01	NGEM-TROW-FL-RSAM-5-55	24hr		3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Alkalinity: total HCO <sub>3</sub> , hydroxide
1226					NGEM-TROW-FL-RSAM-5-55			3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Anions: unprecipitated (Br, Cl, F, SO <sub>4</sub> ) preserved: (NO <sub>3</sub> , NO <sub>2</sub> ) analyze per firm
1225					NGEM-TROW-FL-RSAM-5-55	5D		11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Metals: (As, B, Co, Cr, Cu, Fe, Pb, Mn, Ni, Zn) (u) metals are filtered
1226					NGEM-TROW-FL-RSAM-5-55			11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

**ADDITIONAL INSTRUCTIONS:**

EDS Conductivity = 2.3mS for RSAM-6-54; 1,885mS for RSAM-5-55

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: \_\_\_\_\_

Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature/Affiliation) <i>CS</i> <b>Prima</b>	Received by: (Signature/Affiliation) <i>FELEX</i> (8607 2442)	Date: 9/13/10	Time: 517:00
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation) <i>Chumney</i> <b>AA1</b>	Date: 9/7/10	Time: 0905


\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orbo 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:**

Compa **PRIMA ENVIRONMENTAL, Inc.**  
 Attn: — **5070 Robert J. Mathews Parkway, Suite 300**  
 Address **EI Dorado Hills, CA 95762**  
 City, St **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** 2 **of** 2  
**Page #** 2 **of** 2

Consultant / Client Name **NGEM-TREN-FL** Job # \_\_\_\_\_ Job Name **NGEM-TREN-FL**

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

Time Sampled \_\_\_\_\_ Date Sampled \_\_\_\_\_ Matrix\* See Key Below P.O. # \_\_\_\_\_  
 Lab ID Number (Use Only) \_\_\_\_\_

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. #	Lab ID Number (Use Only)	Sample Description	TAT	Field Filtered	# Containers**	Analyses Required					REMARKS
									TOC (9060)	TSS (160.2)	8081a	Chloroform (8060)	8081a	
	9/13/10	AQ		RES10090720-01	NGEM-TREN-FL-RESAM-5-56	5d			X	X	X	X		
					-RESAM-6-54				X	X	X	X		
					-SA-189-54				X	X	X	X		8081a organic associated 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: \_\_\_\_\_

Relinquished by: (Signature/Affiliation) Prima Received by: (Signature/Affiliation) Feed EX (8067 8448)  
 Date: 9/13/10 Time: 1730

Relinquished by: (Signature/Affiliation) \_\_\_\_\_ Received by: (Signature/Affiliation) William / 1221  
 Date: 9/7/10 Time: 0905

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orho T-Tecliar 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.