

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

03 January 2013

Calvin Yang

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: MUN Evaluation

Work order number:1212406

Enclosed are the results of analyses for samples received by the laboratory on 12/27/12 15:50. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

Excelchem Environmental Labs

RWQC Central Valley
 11020 Sun Center Dr. #200
 Rancho Cordova, CA 95670

Project: MUN Evaluation
 Project Number: [none]
 Project Manager: Calvin Yang

Date Reported:
 01/03/13 10:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AWL 121227-30	1212406-01	Water	12/27/12 08:12	12/27/12 15:50
AWL 121227-31	1212406-02	Water	12/27/12 08:57	12/27/12 15:50
AWL 121227-32	1212406-03	Water	12/27/12 09:09	12/27/12 15:50
AWL 121227-33	1212406-04	Water	12/27/12 09:19	12/27/12 15:50
AWL 121227-34	1212406-05	Water	12/27/12 10:01	12/27/12 15:50
AWL 121227-35	1212406-06	Water	12/27/12 10:26	12/27/12 15:50
AWL 121227-36	1212406-07	Water	12/27/12 12:37	12/27/12 15:50
AWL 121227-37	1212406-08	Water	12/27/12 11:22	12/27/12 15:50
AWL 121227-38	1212406-09	Water	12/27/12 11:34	12/27/12 15:50
AWL 121227-39	1212406-10	Water	12/27/12 11:44	12/27/12 15:50
AWL 121227-40	1212406-11	Water	12/27/12 14:07	12/27/12 15:50
AWL 121227-41	1212406-12	Water	12/27/12 14:29	12/27/12 15:50
AWL 121227-42	1212406-13	Water	12/27/12 14:42	12/27/12 15:50

Excelchem Environmental Lab.



Laboratory Representative

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RWQC Central Valley
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Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
01/03/13 10:36

**AWL 121227-30
1212406-01 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.23	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/27/12	EPA 300.0	
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Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
01/03/13 10:36

AWL 121227-31 1212406-02 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.65	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/27/12	EPA 300.0	
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Rancho Cordova, CA 95670

Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
01/03/13 10:36

AWL 121227-32 1212406-03 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.25	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/28/12	EPA 300.0	
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Project Manager: Calvin Yang

Date Reported:
01/03/13 10:36

AWL 121227-33 1212406-04 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.63	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/28/12	EPA 300.0	
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RWQC Central Valley 11020 Sun Center Dr. #200 Rancho Cordova, CA 95670	Project: MUN Evaluation Project Number: [none] Project Manager: Calvin Yang	Date Reported: 01/03/13 10:36
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**AWL 121227-34
1212406-05 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.29	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/28/12	EPA 300.0	
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**AWL 121227-35
1212406-06 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.52	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/28/12	EPA 300.0	
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Project Manager: Calvin Yang

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01/03/13 10:36

AWL 121227-36
1212406-07 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.20	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/28/12	EPA 300.0	
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**AWL 121227-37
1212406-08 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	10.3	1.10	0.20	mg/L	10	AVL0339	12/28/12	12/28/12	EPA 300.0	
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**AWL 121227-38
1212406-09 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	7.89	1.10	0.20	mg/L	10	AVL0339	12/28/12	12/28/12	EPA 300.0	
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Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
01/03/13 10:36

AWL 121227-39 1212406-10 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	3.86	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/28/12	EPA 300.0	
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Project Manager: Calvin Yang

Date Reported:
01/03/13 10:36

AWL 121227-40 1212406-11 (Water)

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.21	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/28/12	EPA 300.0	
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**AWL 121227-41
1212406-12 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.64	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/28/12	EPA 300.0	
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**AWL 121227-42
1212406-13 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
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Ion Chromatography

Nitrate as Nitrogen	0.47	0.11	0.02	mg/L	1	AVL0339	12/27/12	12/28/12	EPA 300.0	
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Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
01/03/13 10:36

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AVL0339 - EPA 300.0											
Blank (AVL0339-BLK1)											
Prepared & Analyzed: 12/27/12											
Nitrate as Nitrogen	ND	0.11		mg/L							
LCS (AVL0339-BS1)											
Prepared & Analyzed: 12/27/12											
Nitrate as Nitrogen	2.15	0.11		mg/L	2.26		95.3	80-120			
LCS Dup (AVL0339-BSD1)											
Prepared & Analyzed: 12/27/12											
Nitrate as Nitrogen	2.19	0.11		mg/L	2.26		97.1	80-120	1.88	20	
Duplicate (AVL0339-DUP1)											
Source: 1212406-01 Prepared & Analyzed: 12/28/12											
Nitrate as Nitrogen	0.23	0.11		mg/L		0.23			1.88	20	
Matrix Spike (AVL0339-MS1)											
Source: 1212406-01 Prepared & Analyzed: 12/28/12											
Nitrate as Nitrogen	2.43	0.11		mg/L	2.26	0.23	97.6	75-125			
Matrix Spike Dup (AVL0339-MSD1)											
Source: 1212406-01 Prepared & Analyzed: 12/28/12											
Nitrate as Nitrogen	2.38	0.11		mg/L	2.26	0.23	95.2	75-125	2.33	20	

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Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
01/03/13 10:36

Notes and Definitions

ND Analyte not detected at reporting limit.

NR Not reported

Analysis Method

EPA 8260, EPA 8021/8015M

EPA 8270, EPA 8081, EPA 8082, EPA 8141, EPA 8015M (extractable)

Metals

TCLP

Not Specified

Prep Method

EPA 5030B

Water - EPA 3510C, Soil- EPA 3550B

Water- 3005A, Soil- 3050B

EPA 1311

Same as Analysis Method

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Project: MUN Evaluation
Project Number: [none]
Project Manager: Calvin Yang

Date Reported:
01/03/13 10:36

Sample Integrity

WORK ORDER 1212406

Date Received: 12/27/12

Section 1 - Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCEL CHEM Courier Fed-Ex Other: _____
 Transported In Ice Chest Box Hand
 Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: _____
 Has chilling process begun? Y N Samples Received: Chilled to Touch Ambient On Ice
 Temperature of Samples (°C): 9 Ice Chest Temperature(s) (°C): 2

Section 2 - Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	X			
Do all bottle labels agree with COC?	X			No date/time on bottle use COC
Were correct containers used for the tests requested?	X			
Were correct preservations used for the tests requested?	X			
Was a sufficient amount of sample sent for tests indicated?	X			
Were bubbles present in VOA Vials? (Volatile Methods Only)			X	

Section 3 - Summa/Flow regulator Info.

Used Summa#: _____
 Unused Summa#: _____
 Cleaning Summa#: _____
 Regulator#: N/A
 Was there any visual damage to summa canisters or flow regulators? Explain.

Section 4 - COC Info.

	Completed		Info From Container	Completed		Comments
	Yes	No		Yes	No	
Was COC Received	X					
Date Sampled	X					
Time Sampled	X					
Sample ID	X					
Rush TAT		X				
Analysis Requested				X		
Samples arrived within holding time				X		
Any hold times less than 72 hrs.				X		<u>NO</u>
Client Name				X		
Address/Telephone #				X		

Section 5 - Comments / Discrepancies

Was Client notified of discrepancies? Yes No N/A Notified by: _____
 Explanations/ Comments:

Samples Labeled by: QA
 Bin #: 56
 COC Scanned/Attached by: QA
 Sample labels reviewed by: _____

Filled Jason Judd Date: 12/27/12
 Out by: _____ Time: 1550

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