

EXCELCHEM
Environmental Labs

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ELAP Certificate No. : 2119

05 July 2012

Calvin Yang

RWQC Central Valley

11020 Sun Center Dr. #200

Rancho Cordova, CA 95670

RE: MUN Evaluation

Work order number:1206304

Enclosed are the results of analyses for samples received by the laboratory on 06/28/12 14:07. 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:
07/05/12 09:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AWL 120628-10	1206304-01	Water	06/28/12 07:46	06/28/12 14:07
AWL 120628-11	1206304-02	Water	06/28/12 08:20	06/28/12 14:07
AWL 120628-12	1206304-03	Water	06/28/12 08:32	06/28/12 14:07
AWL 120628-13	1206304-04	Water	06/28/12 08:55	06/28/12 14:07
AWL 120628-14	1206304-05	Water	06/28/12 09:15	06/28/12 14:07
AWL 120628-15	1206304-06	Water	06/28/12 09:35	06/28/12 14:07
AWL 120628-16	1206304-07	Water	06/28/12 10:17	06/28/12 14:07
AWL 120628-17	1206304-08	Water	06/28/12 10:30	06/28/12 14:07
AWL 120628-20	1206304-09	Water	06/28/12 11:16	06/28/12 14:07
AWL 120628-21	1206304-10	Water	06/28/12 11:35	06/28/12 14:07
AWL 120628-28	1206304-11	Water	06/28/12 12:12	06/28/12 14:07

Excelchem Environmental Lab.



Laboratory Representative

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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: 07/05/12 09:48
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**AWL 120628-10
1206304-01 (Water)**

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

Nitrate as Nitrogen	17.8	1.10	0.20	mg/L	10	AVG0003	06/29/12	06/29/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	
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Laboratory Representative

Excelchem Environmental Labs

RWQC Central Valley
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Rancho Cordova, CA 95670

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

Date Reported:
07/05/12 09:48

AWL 120628-11 1206304-02 (Water)

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

Nitrate as Nitrogen	0.37	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	
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Laboratory Representative

Excelchem Environmental Labs

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**AWL 120628-12
1206304-03 (Water)**

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

Nitrate as Nitrogen	1.52	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	
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**AWL 120628-13
1206304-04 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	0.82	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
Wet Chemistry										
MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	

Excelchem Environmental Lab.



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**AWL 120628-14
1206304-05 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	0.13	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
Wet Chemistry										
MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	

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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:
07/05/12 09:48

AWL 120628-15 1206304-06 (Water)

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

Nitrate as Nitrogen	ND	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	
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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:
07/05/12 09:48

**AWL 120628-16
1206304-07 (Water)**

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

Nitrate as Nitrogen	ND	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	
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**AWL 120628-17
1206304-08 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	0.11	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
Wet Chemistry										
MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	

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**AWL 120628-20
1206304-09 (Water)**

Analyte	Result	Reporting Limit	MDL	Units	DF	Batch	Date Prepared	Date Analyzed	Method	Notes
Ion Chromatography										
Nitrate as Nitrogen	0.12	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
Wet Chemistry										
MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	

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**AWL 120628-21
1206304-10 (Water)**

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

Nitrate as Nitrogen	ND	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	
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**AWL 120628-28
1206304-11 (Water)**

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

Nitrate as Nitrogen	ND	0.11	0.02	mg/L	1	AVG0003	06/28/12	06/28/12	EPA 300.0	
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Wet Chemistry

MBAS	ND	0.100	0.0600	mg/L	1	AVF0311	06/29/12	06/29/12	SM5540C	
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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:
07/05/12 09:48

Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVG0003 - EPA 300.0

Blank (AVG0003-BLK1)

Prepared & Analyzed: 06/28/12

Nitrate as Nitrogen	ND	0.11		mg/L						
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LCS (AVG0003-BS1)

Prepared & Analyzed: 06/28/12

Nitrate (NO3)	9.44	0.50		mg/L	10.0		94.4	80-120		
Nitrate as Nitrogen	2.13	0.11		"	2.26		94.3	80-120		

LCS Dup (AVG0003-BSD1)

Prepared & Analyzed: 06/28/12

Nitrate (NO3)	9.38	0.50		mg/L	10.0		93.8	80-120	0.723	20
Nitrate as Nitrogen	2.12	0.11		"	2.26		93.6	80-120	0.723	20

Duplicate (AVG0003-DUP1)

Source: 1206304-11

Prepared & Analyzed: 06/28/12

Nitrate (NO3)	0.24	0.50		mg/L		0.30			22.1	20	DUP
Nitrate as Nitrogen	0.05	0.11		"		0.07			22.1	20	DUP

Matrix Spike (AVG0003-MS1)

Source: 1206304-05

Prepared & Analyzed: 06/29/12

Nitrate (NO3)	11.7	0.50		mg/L	10.0	0.59	111	75-125		
Nitrate as Nitrogen	2.63	0.11		"	2.26	0.13	110	75-125		

Matrix Spike Dup (AVG0003-MSD1)

Source: 1206304-05

Prepared & Analyzed: 06/29/12

Nitrate (NO3)	11.5	0.50		mg/L	10.0	0.59	109	75-125	1.73	20
Nitrate as Nitrogen	2.59	0.11		"	2.26	0.13	109	75-125	1.73	20

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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: 07/05/12 09:48
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Wet Chemistry - Quality Control

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AVF0311 - SM5540C

Blank (AVF0311-BLK1)					Prepared & Analyzed: 06/29/12						
MBAS	ND	0.100		mg/L							

LCS (AVF0311-BS1)					Prepared & Analyzed: 06/29/12						
MBAS	0.506	0.100		mg/L	0.500		101	90-110			

LCS Dup (AVF0311-BSD1)					Prepared & Analyzed: 06/29/12						
MBAS	0.493	0.100		mg/L	0.500		98.6	90-110	2.60	15	

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Rancho Cordova, CA 95670

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

Date Reported:
07/05/12 09:48

Notes and Definitions

DUP The RPD result exceeded QC control limits, however the results for the sample and duplicate were below the reporting limit.

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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Rancho Cordova, CA 95670

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

Date Reported:
07/05/12 09:48

Sample Integrity

WORK ORDER 1206304

Date Received: 6-28-12

Section 1 – Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In EXCELCHEM 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): 2 Ice Chest Temperature(s) (°C): 3

Section 2 – Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/>			
Did all bottle labels agree with COC?	<input checked="" type="checkbox"/>			<u>no times on bottles</u>
Were correct containers used for the tests requested?	<input checked="" type="checkbox"/>			
Were correct preservations used for the tests requested?			<input checked="" type="checkbox"/>	
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>			
Were bubbles present in VOA Vials?: (Volatile Methods Only)			<input checked="" type="checkbox"/>	

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	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Date Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Time Sampled	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>Nitrate, MBA</u>
Sample ID	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
Rush TAT		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Analysis Requested				<input checked="" type="checkbox"/>		
Samples arrived within holding time				<input checked="" type="checkbox"/>		
Any hold times less than 72 hrs				<input checked="" type="checkbox"/>		
Client Name				<input checked="" type="checkbox"/>		
Address/Telephone #				<input checked="" type="checkbox"/>		

Section 5 – Comments / Discrepancies

Was Client notified of discrepancies: Yes No N/A Notified by:

Explanations / Comments:

Samples Labeled by: mg
Bin #s: 321
COC Scanned/Attached by: mg
Sample labels reviewed by: _____

Filled Out by: [Signature]

Date: 6-28-12
Time: 1409

[Signature]