



A3D2238

05/09/2013

Invoice
A310975

Calvin Yang
Central Valley RWQCB
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

Dear Calvin Yang,

Thank you for selecting BSK Associates for your analytical testing needs. We have prepared this report in response to your request for analytical services. Enclosed are the results of analyses for samples received by the laboratory on 04/26/2013 08:00.

If additional clarification of any information is required, please contact your Client Services Representative, Stephane Maupas at (800) 877-8310 or (559) 497-2888.

BSK ASSOCIATES

Stephane Maupas
Project Manager

Case Narrative

Work Order Information

Client Name: Central Valley RWQCB	Submitted by: Calvin Yang
Client Code: centr4730	Shipped by: ONTRAC
Work Order: A3D2238	COC Number:
Project: Evaluation WQ in Ag Dominated Water Bodies	TAT: 10
	PO #: 11-123-555

Sample Receipt Conditions

Cooler: Default Cooler	Temp. °C: 0.4
Containers Intact	
COC/Labels Agree	
Preservation Confirmed	
Received On Wet Ice	
Packing Material - Bubble Wrap	
Sample(s) were received in temperature range.	
Sample(s) split after receipt at the laboratory.	
Sample(s) preserved after receipt at lab.	
Initial receipt at BSK-SAC	

Cooler: New Cooler	Temp. °C: 0.5
Containers Intact	
COC/Labels Agree	
Received On Wet Ice	
Packing Material - Bubble Wrap	
Sample(s) were received in temperature range.	
Initial receipt at BSK-SAC	

Report Manager

Calvin Yang

Report Format

Final.rpt



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-01
Sample Date: 04/25/2013 08:20
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-30

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Ammonia as N	SM 4500-NH3 G	0.10	0.029	0.10	mg/L	1	A304806	05/06/13	05/06/13	B2.3
Chloride	EPA 300.0	1.1	0.45	1.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Sulfate as SO4	EPA 300.0	1.9	0.38	2.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3, J
Total Dissolved Solids	SM 2540C	67		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	0.51	0.045	0.10	ug/L	1	A304594	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	0.41	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	9.5	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	42		0.41	mg/L					
Magnesium	EPA 200.7	4.4	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	3.4	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-02
Sample Date: 04/25/2013 09:07
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-31

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Ammonia as N	SM 4500-NH3 G	0.34	0.029	0.10	mg/L	1	A304806	05/06/13	05/06/13	B2.3
Chloride	EPA 300.0	28	0.45	1.0	mg/L	1	A304513	04/26/13	04/26/13	B2.4
Sulfate as SO4	EPA 300.0	4.2	0.38	2.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Total Dissolved Solids	SM 2540C	180		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	3.3	0.045	0.10	ug/L	1	A304594	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	3.6	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	11	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	56		0.41	mg/L					
Magnesium	EPA 200.7	7.1	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	15	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-03
Sample Date: 04/25/2013 09:21
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Waste Water

Sample Description: CCY130425-32

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Ammonia as N	SM 4500-NH3 G	9.5	0.029	0.10	mg/L	1	A304806	05/06/13	05/06/13	B2.4
Chloride	EPA 300.0	51	0.89	2.0	mg/L	2	A304513	04/26/13	04/26/13	B2.4
Sulfate as SO4	EPA 300.0	12	0.76	4.0	mg/L	2	A304513	04/26/13	04/26/13	B2.3
Total Dissolved Solids	SM 2540C	450		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	3.5	0.045	0.10	ug/L	1	A304594	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	4.2	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	45	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	260		0.41	mg/L					
Magnesium	EPA 200.7	35	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	60	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-04
Sample Date: 04/25/2013 09:32
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-33

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Ammonia as N	SM 4500-NH3 G	0.94	0.029	0.10	mg/L	1	A304806	05/06/13	05/06/13	B2.3
Chloride	EPA 300.0	26	0.45	1.0	mg/L	1	A304513	04/26/13	04/26/13	B2.4
Sulfate as SO4	EPA 300.0	4.4	0.38	2.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Total Dissolved Solids	SM 2540C	180		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	2.9	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	2.7	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	13	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	68		0.41	mg/L					
Magnesium	EPA 200.7	8.8	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	18	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-05
Sample Date: 04/25/2013 10:12
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-34

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Ammonia as N	SM 4500-NH3 G	0.20	0.029	0.10	mg/L	1	A304806	05/06/13	05/06/13	B2.3
Chloride	EPA 300.0	2.0	0.45	1.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Sulfate as SO4	EPA 300.0	6.0	0.38	2.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Total Dissolved Solids	SM 2540C	99		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	1.8	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	1.4	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	15	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	75		0.41	mg/L					
Magnesium	EPA 200.7	8.9	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	7.1	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-06
Sample Date: 04/25/2013 10:42
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-35

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Ammonia as N	SM 4500-NH3 G	0.20	0.029	0.10	mg/L	1	A304806	05/06/13	05/06/13	B2.3
Chloride	EPA 300.0	2.1	0.45	1.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Sulfate as SO4	EPA 300.0	4.9	0.38	2.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Total Dissolved Solids	SM 2540C	100		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	3.2	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	2.4	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	15	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	77		0.41	mg/L					
Magnesium	EPA 200.7	9.8	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	6.7	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-07
Sample Date: 04/25/2013 12:57
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-36

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Ammonia as N	SM 4500-NH3 G	0.18	0.029	0.10	mg/L	1	A304806	05/06/13	05/06/13	B2.3
Chloride	EPA 300.0	12	0.45	1.0	mg/L	1	A304513	04/26/13	04/26/13	B2.4
Sulfate as SO4	EPA 300.0	5.7	0.38	2.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Total Dissolved Solids	SM 2540C	170		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	5.8	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	5.3	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	24	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	120		0.41	mg/L					
Magnesium	EPA 200.7	15	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	17	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-08
Sample Date: 04/25/2013 05:15
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-39

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Ammonia as N	SM 4500-NH3 G	0.097	0.029	0.10	mg/L	1	A304806	05/06/13	05/06/13	B2.2, J



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-09
Sample Date: 04/25/2013 08:20
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-40

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Ammonia as N	SM 4500-NH3 G	0.11	0.029	0.10	mg/L	1	A304806	05/06/13	05/06/13	B2.3



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-10
Sample Date: 04/25/2013 11:37
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Waste Water

Sample Description: CCY130425-42

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	56	0.89	2.0	mg/L	2	A304513	04/26/13	04/26/13	B2.4
Nitrate as N	EPA 300.0	15	0.18	0.44	mg/L	2	A304513	04/26/13 18:40	04/26/13 18:40	
Sulfate as SO4	EPA 300.0	44	0.76	4.0	mg/L	2	A304513	04/26/13	04/26/13	B2.4
Total Dissolved Solids	SM 2540C	500		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	22	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	22	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	43	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	280		0.41	mg/L					
Magnesium	EPA 200.7	43	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	63	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-11
Sample Date: 04/25/2013 11:50
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-43

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	58	0.89	2.0	mg/L	2	A304513	04/26/13	04/26/13	B2.4
Nitrate as N	EPA 300.0	16	0.18	0.44	mg/L	2	A304513	04/26/13 18:50	04/26/13 18:50	
Sulfate as SO4	EPA 300.0	46	0.76	4.0	mg/L	2	A304513	04/26/13	04/26/13	B2.4
Total Dissolved Solids	SM 2540C	490		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	22	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	23	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	43	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	280		0.41	mg/L					
Magnesium	EPA 200.7	43	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	63	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-12
Sample Date: 04/25/2013 12:02
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-44

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	58	0.89	2.0	mg/L	2	A304513	04/26/13	04/26/13	B2.4
Nitrate as N	EPA 300.0	15	0.18	0.44	mg/L	2	A304513	04/26/13 19:00	04/26/13 19:00	
Sulfate as SO4	EPA 300.0	46	0.76	4.0	mg/L	2	A304513	04/26/13	04/26/13	B2.4
Total Dissolved Solids	SM 2540C	500		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	21	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	22	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	42	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	270		0.41	mg/L					
Magnesium	EPA 200.7	41	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	62	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-13
Sample Date: 04/25/2013 14:11
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-45

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	8.8	0.45	1.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Nitrate as N	EPA 300.0	ND	0.090	0.22	mg/L	1	A304513	04/26/13 19:29	04/26/13 19:29	
Sulfate as SO4	EPA 300.0	5.0	0.38	2.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Total Dissolved Solids	SM 2540C	170		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	4.5	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	4.4	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	23	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	120		0.41	mg/L					
Magnesium	EPA 200.7	15	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	16	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-14
Sample Date: 04/25/2013 14:30
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-46

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	3.0	0.45	1.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Nitrate as N	EPA 300.0	0.16	0.090	0.22	mg/L	1	A304513	04/26/13 19:38	04/26/13 19:38	J
Sulfate as SO4	EPA 300.0	6.0	0.38	2.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Total Dissolved Solids	SM 2540C	110		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	3.4	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	3.0	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	16	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	82		0.41	mg/L					
Magnesium	EPA 200.7	10	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	8.5	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



Certificate of Analysis

Calvin Yang
 Central Valley RWQCB
 11020 Sun Center Drive, Suite 200
 Rancho Cordova, CA 95670

Report Issue Date: 05/09/2013 15:56
Received Date: 04/26/2013
Received Time: 08:00

Lab Sample ID: A3D2238-15
Sample Date: 04/25/2013 14:45
Sample Type: Grab

Sampled by: Calvin Yang
Matrix: Surface Water

Sample Description: CCY130425-47

General Chemistry

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	5.5	0.45	1.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Nitrate as N	EPA 300.0	0.099	0.090	0.22	mg/L	1	A304513	04/26/13 19:48	04/26/13 19:48	J
Sulfate as SO4	EPA 300.0	5.6	0.38	2.0	mg/L	1	A304513	04/26/13	04/26/13	B2.3
Total Dissolved Solids	SM 2540C	140		5.0	mg/L	1	A304580	04/30/13	05/03/13	

Metals

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	3.9	0.045	0.10	ug/L	1	A304595	04/30/13	05/03/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	3.6	0.045	0.10	ug/L	1	A304765	05/03/13	05/08/13	
Calcium	EPA 200.7	20	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Hardness as CaCO3	SM 2340B	100		0.41	mg/L					
Magnesium	EPA 200.7	13	0.046	0.10	mg/L	1	A304590	04/30/13	05/04/13	
Sodium	EPA 200.7	12	0.45	1.0	mg/L	1	A304590	04/30/13	05/04/13	



General Chemistry Quality Control Report

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
---------	--------	-----	----	-------	-------------	---------------	------	--------	-----	-------	---------------	------

Batch: A304513

Analyst: AJT

Prepared: 04/26/2013

Blank (A304513-BLK1) EPA 300.0 - Quality Control

Chloride	0.60	0.45	1.0	mg/L							04/26/13	B2.0, J
Nitrate as N	ND	0.090	0.22	mg/L							04/26/13	
Sulfate as SO4	0.48	0.38	2.0	mg/L							04/26/13	B2.0, J

Blank Spike (A304513-BS1) EPA 300.0 - Quality Control

Chloride	51	0.45	1.0	mg/L	50		102	90-110			04/26/13	
Nitrate as N	11	0.090	0.22	mg/L	11		102	90-110			04/26/13	
Sulfate as SO4	51	0.38	2.0	mg/L	50		102	90-110			04/26/13	

Blank Spike Dup (A304513-BSD1) EPA 300.0 - Quality Control

Chloride	51	0.45	1.0	mg/L	50		102	90-110	1	20	04/26/13	
Nitrate as N	11	0.090	0.22	mg/L	11		102	90-110	0	20	04/26/13	
Sulfate as SO4	51	0.38	2.0	mg/L	50		101	90-110	1	20	04/26/13	

Matrix Spike (A304513-MS1) EPA 300.0 - Quality Control

Source: A3D2238-07

Chloride	110	0.89	2.0	mg/L	100	12	101	80-120			04/26/13	
Nitrate as N	23	0.18	0.44	mg/L	23	ND	100	80-120			04/26/13	
Sulfate as SO4	110	0.76	4.0	mg/L	100	5.7	100	80-120			04/26/13	

Matrix Spike (A304513-MS2) EPA 300.0 - Quality Control

Source: A3D2241-01

Chloride	110	0.89	2.0	mg/L	100	9.8	100	80-120			04/26/13	
Nitrate as N	22	0.18	0.44	mg/L	23	0.12	99	80-120			04/26/13	
Sulfate as SO4	100	0.76	4.0	mg/L	100	5.6	99	80-120			04/26/13	

Matrix Spike Dup (A304513-MSD1) EPA 300.0 - Quality Control

Source: A3D2238-07

Chloride	110	0.89	2.0	mg/L	100	12	99	80-120	1	20	04/26/13	
Nitrate as N	22	0.18	0.44	mg/L	23	ND	99	80-120	1	20	04/26/13	
Sulfate as SO4	100	0.76	4.0	mg/L	100	5.7	99	80-120	1	20	04/26/13	

Matrix Spike Dup (A304513-MSD2) EPA 300.0 - Quality Control

Source: A3D2241-01

Chloride	110	0.89	2.0	mg/L	100	9.8	102	80-120	2	20	04/26/13	
Nitrate as N	23	0.18	0.44	mg/L	23	0.12	101	80-120	2	20	04/26/13	
Sulfate as SO4	110	0.76	4.0	mg/L	100	5.6	101	80-120	2	20	04/26/13	

Batch: A304580

Analyst: DEH

Prepared: 04/30/2013

Blank (A304580-BLK1) SM 2540C - Quality Control

Total Dissolved Solids	ND		5.0	mg/L							05/03/13	
------------------------	----	--	-----	------	--	--	--	--	--	--	----------	--

Blank (A304580-BLK2) SM 2540C - Quality Control

Total Dissolved Solids	ND		5.0	mg/L							05/03/13	
------------------------	----	--	-----	------	--	--	--	--	--	--	----------	--

Duplicate (A304580-DUP1) SM 2540C - Quality Control

Source: A3D2149-01

Total Dissolved Solids	460		5.0	mg/L	460				2	20	05/03/13	
------------------------	-----	--	-----	------	-----	--	--	--	---	----	----------	--

Duplicate (A304580-DUP2) SM 2540C - Quality Control

Source: A3D2238-05

Total Dissolved Solids	100		5.0	mg/L	99				3	20	05/03/13	
------------------------	-----	--	-----	------	----	--	--	--	---	----	----------	--

A3D2238 FINAL 05092013 1555

1414 Stanislaus Street

Fresno, CA 93706

(559) 497-2888

FAX (559) 485-6935

www.bsklabs.com

An Employee-Owned Company | Analytical Testing | Construction Observation
Environmental Engineering | Geotechnical Engineering | Materials Testing



General Chemistry Quality Control Report

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
---------	--------	-----	----	-------	-------------	---------------	------	--------	-----	-------	---------------	------

Batch: A304580

Analyst: DEH

Prepared: 04/30/2013

Batch: A304806

Analyst: LJL

Prepared: 05/06/2013

Blank (A304806-BLK1) SM 4500-NH3 G - Quality Control

Ammonia as N	0.087	0.029	0.10	mg/L							05/06/13	B2.0, J
--------------	-------	-------	------	------	--	--	--	--	--	--	----------	------------

Blank Spike (A304806-BS1) SM 4500-NH3 G - Quality Control

Ammonia as N	9.7	0.029	0.10	mg/L	10		97	80-120			05/06/13	
--------------	-----	-------	------	------	----	--	----	--------	--	--	----------	--

Blank Spike Dup (A304806-BSD1) SM 4500-NH3 G - Quality Control

Ammonia as N	9.8	0.029	0.10	mg/L	10		98	80-120	2	20	05/06/13	
--------------	-----	-------	------	------	----	--	----	--------	---	----	----------	--

Matrix Spike (A304806-MS1) SM 4500-NH3 G - Quality Control

Source: A3D2238-07

Ammonia as N	9.5	0.029	0.10	mg/L	10	0.18	93	80-120			05/06/13	
--------------	-----	-------	------	------	----	------	----	--------	--	--	----------	--

Matrix Spike (A304806-MS2) SM 4500-NH3 G - Quality Control

Source: A3D2380-04

Ammonia as N	9.1	0.029	0.10	mg/L	10	0.14	90	80-120			05/06/13	
--------------	-----	-------	------	------	----	------	----	--------	--	--	----------	--

Matrix Spike Dup (A304806-MSD1) SM 4500-NH3 G - Quality Control

Source: A3D2238-07

Ammonia as N	9.6	0.029	0.10	mg/L	10	0.18	94	80-120	1	20	05/06/13	
--------------	-----	-------	------	------	----	------	----	--------	---	----	----------	--

Matrix Spike Dup (A304806-MSD2) SM 4500-NH3 G - Quality Control

Source: A3D2380-04

Ammonia as N	9.4	0.029	0.10	mg/L	10	0.14	93	80-120	3	20	05/06/13	
--------------	-----	-------	------	------	----	------	----	--------	---	----	----------	--



Metals Quality Control Report

Analyte	Result	MDL	RL	Units	Spike	Source	%REC	RPD	Date
					Level	Result	%REC	Limits	RPD

Batch: A304590

Analyst: NRE

Prepared: 04/30/2013

Blank (A304590-BLK1) EPA 200.7 - Quality Control

Calcium	ND	0.046	0.10	mg/L						05/04/13
Magnesium	ND	0.046	0.10	mg/L						05/04/13
Sodium	ND	0.45	1.0	mg/L						05/04/13

Blank Spike (A304590-BS1) EPA 200.7 - Quality Control

Calcium	10	0.046	0.10	mg/L	10		103	85-115		05/04/13
Magnesium	10	0.046	0.10	mg/L	10		100	85-115		05/04/13
Sodium	10	0.45	1.0	mg/L	10		103	85-115		05/04/13

Blank Spike Dup (A304590-BSD1) EPA 200.7 - Quality Control

Calcium	9.8	0.046	0.10	mg/L	10		98	85-115	5	20	05/04/13
Magnesium	9.7	0.046	0.10	mg/L	10		97	85-115	3	20	05/04/13
Sodium	9.8	0.45	1.0	mg/L	10		98	85-115	5	20	05/04/13

Matrix Spike (A304590-MS1) EPA 200.7 - Quality Control

Source: A3D2238-01

Calcium	21	0.046	0.10	mg/L	10	9.5	111	70-130			05/04/13
Magnesium	15	0.046	0.10	mg/L	10	4.4	105	70-130			05/04/13
Sodium	14	0.45	1.0	mg/L	10	3.4	106	70-130			05/04/13

Matrix Spike (A304590-MS2) EPA 200.7 - Quality Control

Source: A3D2238-13

Calcium	33	0.046	0.10	mg/L	10	23	96	70-130			05/04/13
Magnesium	25	0.046	0.10	mg/L	10	15	97	70-130			05/04/13
Sodium	26	0.45	1.0	mg/L	10	16	97	70-130			05/04/13

Matrix Spike Dup (A304590-MSD1) EPA 200.7 - Quality Control

Source: A3D2238-01

Calcium	20	0.046	0.10	mg/L	10	9.5	103	70-130	4	20	05/04/13
Magnesium	14	0.046	0.10	mg/L	10	4.4	100	70-130	3	20	05/04/13
Sodium	14	0.45	1.0	mg/L	10	3.4	101	70-130	3	20	05/04/13

Matrix Spike Dup (A304590-MSD2) EPA 200.7 - Quality Control

Source: A3D2238-13

Calcium	34	0.046	0.10	mg/L	10	23	107	70-130	3	20	05/04/13
Magnesium	25	0.046	0.10	mg/L	10	15	104	70-130	3	20	05/04/13
Sodium	27	0.45	1.0	mg/L	10	16	104	70-130	3	20	05/04/13

Batch: A304594

Analyst: PSK

Prepared: 04/30/2013

Blank (A304594-BLK1) EPA 200.8 DRC - Quality Control

Arsenic	ND	0.045	0.10	ug/L							05/03/13
---------	----	-------	------	------	--	--	--	--	--	--	----------

Blank Spike (A304594-BS1) EPA 200.8 DRC - Quality Control

Arsenic	45	0.045	0.10	ug/L	50		91	85-115			05/03/13
---------	----	-------	------	------	----	--	----	--------	--	--	----------

Blank Spike Dup (A304594-BSD1) EPA 200.8 DRC - Quality Control

Arsenic	46	0.045	0.10	ug/L	50		91	85-115	1	20	05/03/13
---------	----	-------	------	------	----	--	----	--------	---	----	----------

Matrix Spike (A304594-MS1) EPA 200.8 DRC - Quality Control

Source: A3D2157-01

Arsenic	48	0.045	0.10	ug/L	50	ND	95	70-130			05/03/13
---------	----	-------	------	------	----	----	----	--------	--	--	----------

A3D2238 FINAL 05092013 1555

1414 Stanislaus Street

Fresno, CA 93706

(559) 497-2888

FAX (559) 485-6935

www.bsklabs.com

An Employee-Owned Company | Analytical Testing | Construction Observation
Environmental Engineering | Geotechnical Engineering | Materials Testing



Metals Quality Control Report

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
---------	--------	-----	----	-------	-------------	---------------	------	--------	-----	-------	---------------	------

Batch: A304594

Analyst: PSK

Prepared: 04/30/2013

Matrix Spike (A304594-MS2) EPA 200.8 DRC - Quality Control

Source: A3D2157-11

Arsenic	50	0.045	0.10	ug/L	50	3.7	93	70-130			05/03/13	
---------	----	-------	------	------	----	-----	----	--------	--	--	----------	--

Matrix Spike Dup (A304594-MSD1) EPA 200.8 DRC - Quality Control

Source: A3D2157-01

Arsenic	46	0.045	0.10	ug/L	50	ND	93	70-130	3	20	05/03/13	
---------	----	-------	------	------	----	----	----	--------	---	----	----------	--

Matrix Spike Dup (A304594-MSD2) EPA 200.8 DRC - Quality Control

Source: A3D2157-11

Arsenic	50	0.045	0.10	ug/L	50	3.7	93	70-130	0	20	05/03/13	
---------	----	-------	------	------	----	-----	----	--------	---	----	----------	--

Batch: A304595

Analyst: PSK

Prepared: 04/30/2013

Blank (A304595-BLK2) EPA 200.8 DRC - Quality Control

Arsenic	ND	0.045	0.10	ug/L							05/03/13	
---------	----	-------	------	------	--	--	--	--	--	--	----------	--

Blank Spike (A304595-BS2) EPA 200.8 DRC - Quality Control

Arsenic	52	0.045	0.10	ug/L	50		104	85-115			05/03/13	
---------	----	-------	------	------	----	--	-----	--------	--	--	----------	--

Blank Spike Dup (A304595-BSD2) EPA 200.8 DRC - Quality Control

Arsenic	47	0.045	0.10	ug/L	50		95	85-115	9	20	05/03/13	
---------	----	-------	------	------	----	--	----	--------	---	----	----------	--

Matrix Spike (A304595-MS1) EPA 200.8 DRC - Quality Control

Source: A3D2238-04

Arsenic	50	0.045	0.10	ug/L	50	2.9	94	70-130			05/03/13	
---------	----	-------	------	------	----	-----	----	--------	--	--	----------	--

Matrix Spike Dup (A304595-MSD1) EPA 200.8 DRC - Quality Control

Source: A3D2238-04

Arsenic	50	0.045	0.10	ug/L	50	2.9	95	70-130	1	20	05/03/13	
---------	----	-------	------	------	----	-----	----	--------	---	----	----------	--

Batch: A304765

Analyst: PSK

Prepared: 05/03/2013

Blank (A304765-BLK1) EPA 200.8 DRC - Quality Control

Arsenic - Dissolved (1)	ND	0.045	0.10	ug/L							05/08/13	
-------------------------	----	-------	------	------	--	--	--	--	--	--	----------	--

Blank Spike (A304765-BS1) EPA 200.8 DRC - Quality Control

Arsenic - Dissolved (1)	46	0.045	0.10	ug/L	50		92	85-115			05/08/13	
-------------------------	----	-------	------	------	----	--	----	--------	--	--	----------	--

Blank Spike Dup (A304765-BSD1) EPA 200.8 DRC - Quality Control

Arsenic - Dissolved (1)	46	0.045	0.10	ug/L	50		92	85-115	0	20	05/08/13	
-------------------------	----	-------	------	------	----	--	----	--------	---	----	----------	--

Matrix Spike (A304765-MS1) EPA 200.8 DRC - Quality Control

Source: A3D2238-01

Arsenic - Dissolved (1)	47	0.045	0.10	ug/L	50	0.41	92	70-130			05/08/13	
-------------------------	----	-------	------	------	----	------	----	--------	--	--	----------	--

Matrix Spike (A304765-MS2) EPA 200.8 DRC - Quality Control

Source: A3D2238-11

Arsenic - Dissolved (1)	71	0.045	0.10	ug/L	50	23	97	70-130			05/08/13	
-------------------------	----	-------	------	------	----	----	----	--------	--	--	----------	--

Matrix Spike Dup (A304765-MSD1) EPA 200.8 DRC - Quality Control

Source: A3D2238-01

Arsenic - Dissolved (1)	49	0.045	0.10	ug/L	50	0.41	97	70-130	4	20	05/08/13	
-------------------------	----	-------	------	------	----	------	----	--------	---	----	----------	--

Matrix Spike Dup (A304765-MSD2) EPA 200.8 DRC - Quality Control

Source: A3D2238-11

Arsenic - Dissolved (1)	74	0.045	0.10	ug/L	50	23	103	70-130	4	20	05/08/13	
-------------------------	----	-------	------	------	----	----	-----	--------	---	----	----------	--

A3D2238 FINAL 05092013 1555

1414 Stanislaus Street

Fresno, CA 93706

(559) 497-2888

FAX (559) 485-6935

www.bsklabs.com

An Employee-Owned Company | Analytical Testing | Construction Observation
Environmental Engineering | Geotechnical Engineering | Materials Testing



Certificate of Analysis

05/09/2013

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
- Sample(s) received, prepared, and analyzed within the method specified criteria unless otherwise noted within this report.
- The results relate only to the samples analyzed in accordance with test(s) requested by the client on the Chain of Custody document. Any analytical quality control exceptions to method criteria that are to be considered when evaluating these results have been flagged and are defined in the data qualifiers section.
- All results are expressed on wet weight basis unless otherwise specified.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Results contained in this analytical report must be reproduced in its entirety.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- BSK Analytical Laboratories certifies that the test results contained in this report meet all requirements of the NELAC Standards for applicable certified drinking water chemistry analyses unless qualified or noted in the Case Narrative.
- Analytical data contained in this report may be used for regulatory purposes to meet the requirements of the Federal or State drinking water, wastewater, and hazardous waste programs.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- * - This is not a NELAP accredited analyte.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing for each certification.

State of California - ELAP	1180	State of Nevada	CA000792009A
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
		State of Washington	C997

Definitions and Flags for Data Qualifiers

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

J DNQ (Detected, not quantified) or trace value. Analyte was detected between MDL and laboratory reporting limit (estimated value).

Certificate of Analysis

05/09/2013

- B2.4 Analyte detected in associated method blank below the reporting limit. Sample concentration exceeds 10x the amount present and is not materially impacted by this condition.
- B2.3 Analyte detected in associated method blank below the reporting limit. Sample result may be, in part, attributable to ambient laboratory background.
- B2.2 Analyte detected in associated method blank below the reporting limit. Sample result may be attributable to ambient laboratory background.
- B2.0 Analyte present in the method blank above the method detection limit (MDL). Laboratory does not determine batch acceptance on detections below the reporting limit (RL).

A3D2238



Central Valley RWQCB

centr4730



04262013

Turnaround: Standard

Due Date: 05/10/2013



1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 Fax (559) 497-2893
 www.bskassociates.com

BSK Associates
 Engineering Laboratories

Required Fields

Temp: 0.4/0.5



10

04/26/2013

NY

Company/Client Name: Central Valley Regional Water Quality Control Board		Report Attention: Calvin Yang		Invoice To: Joseph C. McGahan		Phone: 916-464-4730	
Address: 11020 Sun Center Dr #200		City: Rancho Cordova		State: CA		Zip: 95670	
Project: Eval WQ in Ag Dominated Water Bodies		Project #:		Regulatory Carbon Copies CDPH <input type="checkbox"/> Fresno Co Merced Co <input type="checkbox"/> Tulare Co Madera Co <input type="checkbox"/> Other <input type="checkbox"/>		Regulatory Compliance ED1 to California DPH <input type="checkbox"/>	
Reporting Options: <input checked="" type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type:		How would you like your completed results sent? <input checked="" type="checkbox"/> E-Mail <input type="checkbox"/> Fax <input type="checkbox"/> Mail		Regulatory Compliance System Number:		Gedtracker #:	
Sampler Name (Printed/Signature): Calvin Yang		TAT* <input checked="" type="checkbox"/> Standard - 10 Business Days <input type="checkbox"/> Rush - Date Needed		Gedtracker #:		Drinking Water SO=Solid	
Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water		Sampled* Date		Matrix*		Comments / Station Code / WTRAX	
#		Sample Description*		Date		Matrix*	
1		CCY130425 - 30		4/25/13		SW	
2		CCY130425 - 31		4/25/13		SW	
3		CCY130425 - 32		4/25/13		WW	
4		CCY130425 - 33		4/25/13		SW	
5		CCY130425 - 34		4/25/13		SW	
6		CCY130425 - 35		4/25/13		SW	
7		CCY130425 - 36		4/25/13		SW	
8		CCY130425 - 39		4/25/13		SW	
9		CCY130425 - 40		4/25/13		SW	
10		CCY130425 - 42		4/25/13		WW	
11		CCY130425 - 43		4/25/13		SW	
12		CCY130425 - 44		4/25/13		SW	
13		CCY130425 - 45		4/25/13		SW	
14		CCY130425 - 46		4/25/13		SW	
Requisitioned by: (Signature and Printed Name) Calvin Yang		Company BSK Associates		Date 4/25/13		Time 14:30	
Requisitioned for Lab by: (Signature and Printed Name) Joseph C. McGahan		Company BSK Associates		Date 4/25/13		Time 14:30	
Shipping Method: GNT/RAC		UPS		GSO		WALK-IN	
Cooling Method: Blue		None		FED EX		Courier	
Amount:		Custody Seal: Y/N		PIA#:		Check	
Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client's company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLAB/ServiceConditions.pdf		Received by: (Signature and Printed Name) Joe Gable		Date 4/25/13		Time 14:30	
Received by: (Signature and Printed Name) Joe Gable		Company BSK Associates		Date 4/25/13		Time 14:30	



1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 Fax (559) 497-2893
 www.bskassociates.com

Engineering Laboratories

Required Fields

Temp: 0-50.4

A3D2238
 centr4730
 04/26/2013
 10



Company/Client Name: Central Valley Regional Water Quality Control Board
 Report Attention: Calvin Yang
 Invoice To: Joseph C. McGahan
 PO#: 11-123-555
 Phone: 916-464-4730
 E-mail: ccyang@waterboards.ca.gov jimcgahan@sumnerseeng.com

Address: 11020 Sun Center Dr #200
 City: Rancho Cordova
 State: CA
 Zip: 95670
 Project: Eval WQ in Ag Dominated Water Bodies

Reporting Options:
 Trace (J-Flag) Swamp EDD Type
 E-Mail Fax Mail
 Standard - 10 Business Days
 Rush - Date Needed
 Geotracker #

Sampler Name (Printed/Signature):
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 How would you like your completed results sent?
 Standard - 10 Business Days
 Rush - Date Needed

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX
		Date	Time		
15	CCY130425 - 47	4/25/13	1445	SW	Na, TDS, Chloride
					Sulfate, Hardness
					Total and Dissolved: As
					Nitrate as N

Relinquished by (Signature and Printed Name):
 Relinquished by (Signature and Printed Name):
 Received for Lab by (Signature and Printed Name):
 Shipping Method: CONTAINER
 Cooling Method: Wet
 Payment for services rendered is noted here as due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client's company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions can be found at www.bskassociates.com/BSK_SATTermsConditions.pdf



Sample Integrity 4.26.13

BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$		<u>Yes</u> No NA		Were correct containers and preservatives received for the tests requested?		<u>Yes</u> No NA	
	If samples were taken today, is there evidence that chilling has begun?		Yes No <u>NA</u>		Were there bubbles in the VOA vials? (Volatiles Only)		Yes No <u>NA</u>	
	Did all bottles arrive unbroken and intact?		<u>Yes</u> No		Was a sufficient amount of sample received?		<u>Yes</u> No	
	Did all bottle labels agree with COC?		<u>Yes</u> No		Do samples have a hold time <72 hours?		<u>Yes</u> No	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes No <u>NA</u>		Was PM notified of discrepancies? PM: _____ By/Time: _____		Yes No <u>NA</u>	
Bottles Received <small>"—" means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1-7	8-9	10	11-15	
	Bacti $\text{Na}_2\text{S}_2\text{O}_3$	—	—					
	None (P) ^{White Cap}	—	—	1C		1C	1C	
	Cr6 Buffer (P) ^{Blue Cap}	pH 9-9.5	Y N					
	HNO_3 (P) ^{Red Cap}	—	—	1B		1A	1B	
	H_2SO_4 (P) ^{Yellow Cap}	pH ≤ 2	<u>C</u> N	1H	1A			
	NaOH (P) ^{Green Cap}	Cl, pH ≥ 12	Y N					
	NaOH + ZnAc (P)	pH ≥ 9	Y N					
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	H_2SO_4 (AG) ^{Yellow Label} O&G, Diesel	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} 547, 515, 525, 548	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ (AG) ^{Blue Label} THMs 524.2 or 524.3	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ (CG) ^{Blue Label} 504, 505	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ + MCAA (CG) ^{Orange Label} 531	pH = 3	Y N					
	NH_4Cl (AG) ^{Purple Label} 552	—	—					
	EDA (AG) ^{Brown Label} DBPs	—	—					
	Ascorbic + Maleic (AG) ^{Lt Green Label} 524.3	—	—					
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	None (CG)	—	—					
	H_3PO_4 (CG) ^{Salmon Label}	—	—					
	Other:							
	Asbestos 1Liter Plastic w/ Foil	—	—					
Low Level Hg / Metals Double Baggie	—	—						
Bottled Water	—	—						
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials		
	S P	AMP 3	4/26/13 840 MD	S P				
Comments	Did not receive a metals bottle for CCY130425-42							

Labeled by: SS @ 1600

Labels checked by: MD @ 1743