

Daily Analysis Runlog For Sequence/QC Batch ID # LB92122

Review By

Review On

SubDirectory

LB92122

Test :

Anions

STD. NAME	STD REF.#
ICAL Standard	WP60207,WP60208,WP60209,WP60210,WP60211,WP60212,WP60213
ICV Standard	WP60214
CCV Standard	WP60209
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP60214
Chk Standard	WP60017,WP60019

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	12/08/17 10:06		OK
2	STD2	STD2	CAL2	12/08/17 10:49		OK
3	STD3	STD3	CAL3	12/08/17 11:20		OK
4	STD4	STD4	CAL4	12/08/17 11:51		OK
5	STD5	STD5	CAL5	12/08/17 12:22		OK
6	STD6	STD6	CAL6	12/08/17 12:53		OK
7	STD7	STD7	CAL7	12/08/17 13:23		OK
8	ICV1	ICV1	ICV	12/08/17 13:54		OK
9	ICB1	ICB1	ICB	12/08/17 14:47		OK
10	CCV1	CCV1	CCV	12/12/17 10:13		OK
11	CCB1	CCB1	CCB	12/12/17 10:44		OK
12	LB92122BLW	LB92122BLW	MB	12/12/17 11:15		OK
13	LB92122BSW	LB92122BSW	LCS	12/12/17 11:46		OK
14	I6878-02	TW-3-DEP	SAM	12/12/17 17:07		OK
15	I6878-02DUP	TW-3-DEPDUP	DUP	12/12/17 17:38		OK
16	I6878-02MS	TW-3-DEPMS	MS	12/12/17 18:09		OK
17	CCV2	CCV2	CCV	12/12/17 18:40		OK
18	CCB2	CCB2	CCB	12/12/17 19:11		OK



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Report of Analysis

Client:		Date Collected:	12/11/2017 12:00:00 AM
Project:	LB92122	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	TW-3-DEP	SDG No.:	LB92122
Lab Sample ID:	I6878-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		12/12/2017	300.0
	Chloride	17.9	OR	1	0.075		0.15	mg/L		12/12/2017	300.0
	Fluoride	0.48		1	0.043		0.1	mg/L		12/12/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/12/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/12/2017	300.0
	Phosphorus, Ortho	0.33		1	0.01		0.25	mg/L		12/12/2017	300.0
	Sulfate	36.7		1	0.13		0.75	mg/L		12/12/2017	300.0



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Client:		Date Collected:	12/11/2017 12:00:00 AM
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Client Sample ID:	TW-3-DEP	SDG No.:	LB92122
Lab Sample ID:	I6878-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Sample ID	Analyte	Result	True Value	%	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Bromide	9.6	10	96	0	90 - 110		12/08/2017	13:54	lb92122
	Chloride	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	lb92122
	Fluoride	1.8	2	90	0	90 - 110		12/08/2017	13:54	lb92122
	Phosphorus, Ortho	5.4	5	108	0	90 - 110		12/08/2017	13:54	lb92122
	Nitrite	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	lb92122
	Nitrate	2.4	2.5	96	0	90 - 110		12/08/2017	13:54	lb92122
	Sulfate	14.1	15	94	0	90 - 110		12/08/2017	13:54	lb92122



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92122

SDG No.: LB92122

Contract: _____ Lab Code: CHEM

Case No.: LB92122

SAS No.: LB92122

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Bromide	9.5	10	95	0	90 - 110		12/12/2017	10:13	lb92122
	Chloride	2.8	3	93.3	0	90 - 110		12/12/2017	10:13	lb92122
	Fluoride	1.9	2	95	0	90 - 110		12/12/2017	10:13	lb92122
	Phosphorus, Ortho	5.7	5	114	0	90 - 110		12/12/2017	10:13	lb92122
	Nitrite	2.8	3	93.3	0	90 - 110		12/12/2017	10:13	lb92122
	Nitrate	2.3	2.5	92	0	90 - 110		12/12/2017	10:13	lb92122
	Sulfate	13.9	15	92.7	0	90 - 110		12/12/2017	10:13	lb92122
CCV2	Bromide	9.7	10	97	0	90 - 110		12/12/2017	18:40	lb92122
	Chloride	2.9	3	96.7	0	90 - 110		12/12/2017	18:40	lb92122
	Fluoride	1.9	2	95	0	90 - 110		12/12/2017	18:40	lb92122
	Phosphorus, Ortho	6	5	120	0	90 - 110		12/12/2017	18:40	lb92122
	Nitrite	2.9	3	96.7	0	90 - 110		12/12/2017	18:40	lb92122
	Nitrate	2.4	2.5	96	0	90 - 110		12/12/2017	18:40	lb92122
	Sulfate	14.1	15	94	0	90 - 110		12/12/2017	18:40	lb92122



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92122

SDG No.: LB92122

Contract: Lab Code: CHEM

Case No.: LB92122

SAS No.: LB92122

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Bromide	0.066	+/-0.5	U		0.5		12/08/2017	14:47	lb92122
	Chloride	0.075	+/-0.15	U		0.15		12/08/2017	14:47	lb92122
	Fluoride	0.043	+/-0.1	U		0.1		12/08/2017	14:47	lb92122
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/08/2017	14:47	lb92122
	Nitrite	0.022	+/-0.15	U		0.15		12/08/2017	14:47	lb92122
	Nitrate	0.027	+/-0.13	U		0.13		12/08/2017	14:47	lb92122
	Sulfate	0.13	+/-0.75	U		0.75		12/08/2017	14:47	lb92122

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Bromide	0.066	+/-0.5	U		0.5		12/12/2017	10:44	lb92122
	Chloride	0.075	+/-0.15	U		0.15		12/12/2017	10:44	lb92122
	Fluoride	0.043	+/-0.1	U		0.1		12/12/2017	10:44	lb92122
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/12/2017	10:44	lb92122
	Nitrite	0.022	+/-0.15	U		0.15		12/12/2017	10:44	lb92122
	Nitrate	0.027	+/-0.13	U		0.13		12/12/2017	10:44	lb92122
	Sulfate	0.13	+/-0.75	U		0.75		12/12/2017	10:44	lb92122
CCB2	Bromide	0.066	+/-0.5	U		0.5		12/12/2017	19:11	lb92122
	Chloride	0.075	+/-0.15	U		0.15		12/12/2017	19:11	lb92122
	Fluoride	0.043	+/-0.1	U		0.1		12/12/2017	19:11	lb92122
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/12/2017	19:11	lb92122
	Nitrite	0.022	+/-0.15	U		0.15		12/12/2017	19:11	lb92122
	Nitrate	0.027	+/-0.13	U		0.13		12/12/2017	19:11	lb92122
	Sulfate	0.13	+/-0.75	U		0.75		12/12/2017	19:11	lb92122



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92122

SDG No.: LB92122

Contract:

Lab Code: CHEM

Case No.: LB92122

SAS No.: LB92122

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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PREPARATION BLANK SUMMARY

Client: LB92122

SDG No.: LB92122

Instrument: IC-1

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB92122BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		12/12/2017	11:15	lb92122
	Chloride	0.075	<0.15	U		0.15		12/12/2017	11:15	lb92122
	Fluoride	0.043	<0.1	U		0.1		12/12/2017	11:15	lb92122
	Phosphorus, Ortho	0.01	<0.25	U		0.25		12/12/2017	11:15	lb92122
	Nitrite	0.022	<0.15	U		0.15		12/12/2017	11:15	lb92122
	Nitrate	0.027	<0.13	U		0.13		12/12/2017	11:15	lb92122
	Sulfate	0.13	<0.75	U		0.75		12/12/2017	11:15	lb92122



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MATRIX SPIKE SUMMARY

client: LB92122 level: low sdg no.: LB92122
contract: _____ lab code: CHEM case no.: LB92122 sas no.: LB92122
matrix: WATER sample id: I6878-02 client id: TW-3-DEPMS
Percent Solids for Sample: 0 Spiked ID: I6878-02MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Bromide	mg/L	80 - 120	10		0.066	U	10	100		
Chloride	mg/L	80 - 120	19.7	OR	17.9	OR	3	60	*	
Fluoride	mg/L	80 - 120	2.5		0.48		2	101		
Phosphorus, Ortho	mg/L	80 - 120	8.6		0.33		5	165	*	
Nitrite	mg/L	80 - 120	2.8		0.022	U	3	93.3		
Nitrate	mg/L	80 - 120	2.4		0.027	U	2.5	96		
Sulfate	mg/L	80 - 120	49.9	OR	36.7		15	88		

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DUPLICATE SAMPLE SUMMARY

Client: LB92122 **Level:** LOW **SDG No.:** LB92122
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92122 **SAS No.:** LB92122
Matrix: WATER **Sample ID:** I6878-02 **Client ID:** TW-3-DEPDUP
Percent Solids for Sample: 0 **Duplicate ID** I6878-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	0.066	U	0	U			
Chloride	mg/L	20	17.9	OR	17.9	OR	0		
Fluoride	mg/L	20	0.48		0.58		19		
Phosphorus, Ortho	mg/L	20	0.33		0.33		0		
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.027	U	0	U			
Sulfate	mg/L	20	36.7		36.7		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92122

SDG No.: LB92122

Contract:

Lab Code: CHEM

Case No.: LB92122

SAS No.: LB92122

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92122BSW							
Bromide	mg/L	10	9.4		94	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	5.9		118	90 - 110	
Nitrite	mg/L	3	2.8		93.3	90 - 110	
Nitrate	mg/L	2.5	2.3		92	90 - 110	
Sulfate	mg/L	15	13.9		92.7	90 - 110	
