

Daily Analysis Runlog For Sequence/QC Batch ID # LB89406

Review By

SubDirectory

Review On

Test : Anions

LB89406

STD. NAME		STD REF.#				
ICAL Standard		WP56304,WP56305,WP56306,WP56307,WP56308,WP56309,WP56310				
ICV Standard		WP56311				
CCV Standard		WP57121				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP57122				
Chk Standard		WP57042,WP57005				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	07/11/17 10:41		OK
2	STD2	STD2	CAL2	07/11/17 11:10		OK
3	STD3	STD3	CAL3	07/11/17 11:39		OK
4	STD4	STD4	CAL4	07/11/17 12:08		OK
5	STD5	STD5	CAL5	07/11/17 12:37		OK
6	STD6	STD6	CAL6	07/11/17 13:06		OK
7	STD7	STD7	CAL7	07/11/17 13:35		OK
8	ICV1	ICV1	ICV	07/11/17 15:03		OK
9	ICB1	ICB1	ICB	07/11/17 15:32		OK
10	CCV1	CCV1	CCV	08/10/17 09:50		OK
11	CCB1	CCB1	CCB	08/10/17 10:19		OK
12	LB89406BLW	LB89406BLW	MB	08/10/17 10:48		OK
13	LB89406BSW	LB89406BSW	LCS	08/10/17 11:17		OK
14	I4736-13	TWP-37	SAM	08/10/17 16:17		OK
15	I4736-13DUP	TWP-37DUP	DUP	08/10/17 16:46		OK
16	I4736-14	TWP-32	SAM	08/10/17 17:15		OK
17	I4736-13MS	TWP-37MS	MS	08/10/17 17:43		OK
18	CCV2	CCV2	CCV	08/10/17 18:12		OK
19	CCB2	CCB2	CCB	08/10/17 18:41		OK



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Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89406	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	TWP-37	SDG No.:	LB89406
Lab Sample ID:	I4736-13	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	32.8	OR	1	0.066		0.5	mg/L		08/10/2017	300.0
	Chloride	9190	OR	1	0.075		0.15	mg/L		08/10/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		08/10/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		08/10/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		08/10/2017	300.0
	Phosphorus, Ortho	0.54		1	0.01		0.25	mg/L		08/10/2017	300.0
	Sulfate	554	OR	1	0.13		0.75	mg/L		08/10/2017	300.0



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Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89406	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	TWP-32	SDG No.:	LB89406
Lab Sample ID:	I4736-14	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	12		1	0.066		0.5	mg/L		08/10/2017	300.0
	Chloride	7690	OR	1	0.075		0.15	mg/L		08/10/2017	300.0
	Fluoride	2.7		1	0.043		0.1	mg/L		08/10/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		08/10/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		08/10/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		08/10/2017	300.0
	Sulfate	597	OR	1	0.13		0.75	mg/L		08/10/2017	300.0



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Report of Analysis

Client:		Date Collected:	8/10/2017 12:00:00 AM
Project:	LB89406	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	TWP-32	SDG No.:	LB89406
Lab Sample ID:	I4736-14	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89406

SDG No.: LB89406

Contract: _____ Lab Code: CHEM

Case No.: LB89406

SAS No.: LB89406

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
ICV1	Bromide	10.3	10	103	0	90 - 110		07/11/2017	15:03	LB89406
	Chloride	3	3	100	0	90 - 110		07/11/2017	15:03	LB89406
	Fluoride	2.1	2	105	0	90 - 110		07/11/2017	15:03	LB89406
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		07/11/2017	15:03	LB89406
	Nitrite	3	3	100	0	90 - 110		07/11/2017	15:03	LB89406
	Nitrate	2.5	2.5	100	0	90 - 110		07/11/2017	15:03	LB89406
	Sulfate	14.7	15	98	0	90 - 110		07/11/2017	15:03	LB89406



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89406

SDG No.: LB89406

Contract: _____ Lab Code: CHEM

Case No.: LB89406

SAS No.: LB89406

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	10.4	10	104	0	90 - 110		08/10/2017	09:50	LB89406
	Chloride	3	3	100	0	90 - 110		08/10/2017	09:50	LB89406
	Fluoride	2.1	2	105	0	90 - 110		08/10/2017	09:50	LB89406
	Phosphorus, Ortho	3.8	5	76	0	90 - 110		08/10/2017	09:50	LB89406
	Nitrite	3	3	100	0	90 - 110		08/10/2017	09:50	LB89406
	Nitrate	2.5	2.5	100	0	90 - 110		08/10/2017	09:50	LB89406
	Sulfate	14.2	15	94.7	0	90 - 110		08/10/2017	09:50	LB89406
CCV2	Bromide	10.4	10	104	0	90 - 110		08/10/2017	18:12	LB89406
	Chloride	3.1	3	103.3	0	90 - 110		08/10/2017	18:12	LB89406
	Fluoride	2.8	2	140	0	90 - 110		08/10/2017	18:12	LB89406
	Phosphorus, Ortho	3.1	5	62	0	90 - 110		08/10/2017	18:12	LB89406
	Nitrite	3.1	3	103.3	0	90 - 110		08/10/2017	18:12	LB89406
	Nitrate	2.6	2.5	104	0	90 - 110		08/10/2017	18:12	LB89406
	Sulfate	14.1	15	94	0	90 - 110		08/10/2017	18:12	LB89406



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89406

SDG No.: LB89406

Contract: Lab Code: CHEM

Case No.: LB89406

SAS No.: LB89406

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		07/11/2017	15:32	LB89406
	Chloride	0.075	+/-0.15	U		0.15		07/11/2017	15:32	LB89406
	Fluoride	0.043	+/-0.1	U		0.1		07/11/2017	15:32	LB89406
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		07/11/2017	15:32	LB89406
	Nitrite	0.022	+/-0.15	U		0.15		07/11/2017	15:32	LB89406
	Nitrate	0.027	+/-0.13	U		0.13		07/11/2017	15:32	LB89406
	Sulfate	0.13	+/-0.75	U		0.75		07/11/2017	15:32	LB89406



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89406

SDG No.: LB89406

Contract:

Lab Code: CHEM

Case No.: LB89406

SAS No.: LB89406

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		08/10/2017	10:19	LB89406
	Chloride	0.075	+/-0.15	U		0.15		08/10/2017	10:19	LB89406
	Fluoride	0.043	+/-0.1	U		0.1		08/10/2017	10:19	LB89406
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/10/2017	10:19	LB89406
	Nitrite	0.022	+/-0.15	U		0.15		08/10/2017	10:19	LB89406
	Nitrate	0.027	+/-0.13	U		0.13		08/10/2017	10:19	LB89406
	Sulfate	0.13	+/-0.75	U		0.75		08/10/2017	10:19	LB89406
CCB2	Bromide	0.066	+/-0.5	U		0.5		08/10/2017	18:41	LB89406
	Chloride	0.075	+/-0.15	U		0.15		08/10/2017	18:41	LB89406
	Fluoride	0.043	+/-0.1	U		0.1		08/10/2017	18:41	LB89406
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		08/10/2017	18:41	LB89406
	Nitrite	0.022	+/-0.15	U		0.15		08/10/2017	18:41	LB89406
	Nitrate	0.027	+/-0.13	U		0.13		08/10/2017	18:41	LB89406
	Sulfate	0.13	+/-0.75	U		0.75		08/10/2017	18:41	LB89406



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89406

SDG No.: LB89406

Contract: Lab Code: CHEM

Case No.: LB89406

SAS No.: LB89406

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: LB89406

SDG No.: LB89406

Instrument: IC-2

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB89406BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		08/10/2017	10:48	LB89406
	Chloride	0.075	<0.15	U		0.15		08/10/2017	10:48	LB89406
	Fluoride	0.043	<0.1	U		0.1		08/10/2017	10:48	LB89406
	Phosphorus, Ortho	0.01	<0.25	U		0.25		08/10/2017	10:48	LB89406
	Nitrite	0.022	<0.15	U		0.15		08/10/2017	10:48	LB89406
	Nitrate	0.027	<0.13	U		0.13		08/10/2017	10:48	LB89406
	Sulfate	0.13	<0.75	U		0.75		08/10/2017	10:48	LB89406



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MATRIX SPIKE SUMMARY

client: LB89406 **level:** low **sdg no.:** LB89406
contract: **lab code:** CHEM **case no.:** LB89406 **sas no.:** LB89406
matrix: WATER **sample id:** I4736-13 **client id:** TWP-37MS
Percent Solids for Sample: 0 **Spiked ID:** I4736-13MS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance	Spiked	Sample		Spike	%	Qual	M
		Limit %R	Result	C	Result	C	Added	Recovery	
Bromide	mg/L	80 - 120	31.8	OR	32.8	OR	10	-10	*
Chloride	mg/L	80 - 120	8280	OR	9190	OR	3	-30333	*
Fluoride	mg/L	80 - 120	1.6		0.043	U	2	80	
Phosphorus, Ortho	mg/L	80 - 120	2.6		0.54		5	41	*
Nitrite	mg/L	80 - 120	2.4		0.022	U	3	80	
Nitrate	mg/L	80 - 120	2.7		0.027	U	2.5	108	
Sulfate	mg/L	80 - 120	515	OR	554	OR	15	-260	*

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DUPLICATE SAMPLE SUMMARY

Client: LB89406 **Level:** LOW **SDG No.:** LB89406
Contract: **Lab Code:** CHEM **Case No.:** LB89406 **SAS No.:** LB89406
Matrix: WATER **Sample ID:** I4736-13 **Client ID:** TWP-37DUP
Percent Solids for Sample: 0 **Duplicate ID** I4736-13DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	32.8	OR	21.2		43	*	
Chloride	mg/L	20	9190	OR	9200	OR	0		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.54		0.31		54	*	
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.027	U	0	U			
Sulfate	mg/L	20	554	OR	557	OR	1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89406

SDG No.: LB89406

Contract:

Lab Code: CHEM

Case No.: LB89406

SAS No.: LB89406

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB89406BSW							
Bromide	mg/L	10	10.2		102	90 - 110	
Chloride	mg/L	3	3		100	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	4.3		86	90 - 110	
Nitrite	mg/L	3	3		100	90 - 110	
Nitrate	mg/L	2.5	2.5		100	90 - 110	
Sulfate	mg/L	15	14.2		94.7	90 - 110	
