

Daily Analysis Runlog For Sequence/QC Batch ID # LB93335

Review By

SubDirectory

Review On

Test : Anions

LB93335

STD. NAME		STD REF.#				
ICAL Standard		WP61149,WP61150,WP61151,WP61152,WP61153,WP61154,WP61155				
ICV Standard		WP61156				
CCV Standard		WP62018				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62019				
Chk Standard		WP61543,WP61544				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	01/22/18 12:09		OK
2	STD2	STD2	CAL2	01/22/18 12:39		OK
3	STD3	STD3	CAL3	01/22/18 13:10		OK
4	STD4	STD4	CAL4	01/22/18 13:41		OK
5	STD5	STD5	CAL5	01/22/18 14:12		OK
6	STD6	STD6	CAL6	01/22/18 14:43		OK
7	STD7	STD7	CAL7	01/22/18 15:14		OK
8	ICV1	ICV1	ICV	01/23/18 10:45		OK
9	ICB1	ICB1	ICB	01/23/18 11:23		OK
10	CCV1	CCV1	CCV	02/16/18 09:33		OK
11	CCB1	CCB1	CCB	02/16/18 10:06		OK
12	LB93335BLW	LB93335BLW	MB	02/16/18 10:37		OK
13	LB93335BSW	LB93335BSW	LCS	02/16/18 11:08		OK
14	J1591-01	MH-27	SAM	02/16/18 11:52		OK
15	J1591-02	MH-28	SAM	02/16/18 12:23		OK
16	J1591-02DUP	MH-28DUP	DUP	02/16/18 12:54		OK
17	J1591-02MS	MH-28MS	MS	02/16/18 13:25		OK
18	CCV2	CCV2	CCV	02/16/18 13:56		OK
19	CCB2	CCB2	CCB	02/16/18 14:27		OK



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Report of Analysis

Client:		Date Collected:	2/16/2018 12:00:00 AM
Project:	LB93335	Date Received:	2/16/2018 12:00:00 AM
Client Sample ID:	MH-27	SDG No.:	LB93335
Lab Sample ID:	J1591-01	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	1		1	0.066		0.5	mg/L		02/16/2018	300.0
	Chloride	590	OR	1	0.075		0.15	mg/L		02/16/2018	300.0
	Fluoride	0.51		1	0.043		0.1	mg/L		02/16/2018	300.0
	Nitrate	1.1		1	0.027		0.13	mg/L		02/16/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		02/16/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		02/16/2018	300.0
	Sulfate	72.5	OR	1	0.13		0.75	mg/L		02/16/2018	300.0



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Report of Analysis

Client:		Date Collected:	2/16/2018 12:00:00 AM
Project:	LB93335	Date Received:	2/16/2018 12:00:00 AM
Client Sample ID:	MH-28	SDG No.:	LB93335
Lab Sample ID:	J1591-02	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	1.5		1	0.066		0.5	mg/L		02/16/2018	300.0
	Chloride	1720	OR	1	0.075		0.15	mg/L		02/16/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		02/16/2018	300.0
	Nitrate	1.2		1	0.027		0.13	mg/L		02/16/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		02/16/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		02/16/2018	300.0
	Sulfate	41.8	OR	1	0.13		0.75	mg/L		02/16/2018	300.0



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Report of Analysis

Client:		Date Collected:	2/16/2018 12:00:00 AM
Project:	LB93335	Date Received:	2/16/2018 12:00:00 AM
Client Sample ID:	MH-28	SDG No.:	LB93335
Lab Sample ID:	J1591-02	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93335

SDG No.: LB93335

Contract: _____ Lab Code: CHEM

Case No.: LB93335

SAS No.: LB93335

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	9.3	10	93		90 - 110		01/23/2018	10:45	LB93335
	Chloride	2.8	3	93.3		90 - 110		01/23/2018	10:45	LB93335
	Fluoride	1.9	2	95		90 - 110		01/23/2018	10:45	LB93335
	Phosphorus, Ortho	4.6	5	92		90 - 110		01/23/2018	10:45	LB93335
	Nitrite	2.8	3	93.3		90 - 110		01/23/2018	10:45	LB93335
	Nitrate	2.3	2.5	92		90 - 110		01/23/2018	10:45	LB93335
	Sulfate	14	15	93.3		90 - 110		01/23/2018	10:45	LB93335



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93335

SDG No.: LB93335

Contract: _____ Lab Code: CHEM

Case No.: LB93335

SAS No.: LB93335

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Bromide	9.8	10	98		90 - 110		02/16/2018	09:33	LB93335
	Chloride	3.1	3	103.3		90 - 110		02/16/2018	09:33	LB93335
	Fluoride	2	2	100		90 - 110		02/16/2018	09:33	LB93335
	Phosphorus, Ortho	5.3	5	106		90 - 110		02/16/2018	09:33	LB93335
	Nitrite	2.9	3	96.7		90 - 110		02/16/2018	09:33	LB93335
	Nitrate	2.5	2.5	100		90 - 110		02/16/2018	09:33	LB93335
	Sulfate	14.8	15	98.7		90 - 110		02/16/2018	09:33	LB93335
CCV2	Bromide	10.1	10	101		90 - 110		02/16/2018	13:56	LB93335
	Chloride	3.3	3	110		90 - 110		02/16/2018	13:56	LB93335
	Fluoride	2.2	2	110		90 - 110		02/16/2018	13:56	LB93335
	Phosphorus, Ortho	5.9	5	118	*	90 - 110		02/16/2018	13:56	LB93335
	Nitrite	3	3	100		90 - 110		02/16/2018	13:56	LB93335
	Nitrate	2.5	2.5	100		90 - 110		02/16/2018	13:56	LB93335
	Sulfate	14.6	15	97.3		90 - 110		02/16/2018	13:56	LB93335



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93335

SDG No.: LB93335

Contract:

Lab Code: CHEM

Case No.: LB93335

SAS No.: LB93335

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		01/23/2018	11:23	LB93335
	Chloride	0.075	+/-0.15	U		0.15		01/23/2018	11:23	LB93335
	Fluoride	0.043	+/-0.1	U		0.1		01/23/2018	11:23	LB93335
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/23/2018	11:23	LB93335
	Nitrite	0.022	+/-0.15	U		0.15		01/23/2018	11:23	LB93335
	Nitrate	0.027	+/-0.13	U		0.13		01/23/2018	11:23	LB93335
	Sulfate	0.13	+/-0.75	U		0.75		01/23/2018	11:23	LB93335



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93335

SDG No.: LB93335

Contract:

Lab Code: CHEM

Case No.: LB93335

SAS No.: LB93335

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		02/16/2018	10:06	LB93335
	Chloride	0.075	+/-0.15	U		0.15		02/16/2018	10:06	LB93335
	Fluoride	0.043	+/-0.1	U		0.1		02/16/2018	10:06	LB93335
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/16/2018	10:06	LB93335
	Nitrite	0.022	+/-0.15	U		0.15		02/16/2018	10:06	LB93335
	Nitrate	0.027	+/-0.13	U		0.13		02/16/2018	10:06	LB93335
	Sulfate	0.13	+/-0.75	U		0.75		02/16/2018	10:06	LB93335
CCB2	Bromide	0.066	+/-0.5	U		0.5		02/16/2018	14:27	LB93335
	Chloride	0.075	+/-0.15	U		0.15		02/16/2018	14:27	LB93335
	Fluoride	0.043	+/-0.1	U		0.1		02/16/2018	14:27	LB93335
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		02/16/2018	14:27	LB93335
	Nitrite	0.022	+/-0.15	U		0.15		02/16/2018	14:27	LB93335
	Nitrate	0.027	+/-0.13	U		0.13		02/16/2018	14:27	LB93335
	Sulfate	0.13	+/-0.75	U		0.75		02/16/2018	14:27	LB93335



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93335

SDG No.: LB93335

Contract: Lab Code: CHEM

Case No.: LB93335

SAS No.: LB93335

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: LB93335

SDG No.: LB93335

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
LB93335BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		02/16/2018	10:37	LB93335
	Chloride	0.075	<0.15	U		0.15		02/16/2018	10:37	LB93335
	Fluoride	0.043	<0.1	U		0.1		02/16/2018	10:37	LB93335
	Phosphorus, Ortho	0.01	<0.25	U		0.25		02/16/2018	10:37	LB93335
	Nitrite	0.022	<0.15	U		0.15		02/16/2018	10:37	LB93335
	Nitrate	0.027	<0.13	U		0.13		02/16/2018	10:37	LB93335
	Sulfate	0.13	<0.75	U		0.75		02/16/2018	10:37	LB93335



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MATRIX SPIKE SUMMARY

client: LB93335 level: low sdg no.: LB93335
contract: _____ lab code: CHEM case no.: LB93335 sas no.: LB93335
matrix: WATER sample id: J1591-02 client id: MH-28MS
Percent Solids for Sample: 0 Spiked ID: J1591-02MS 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	10.5		1.5		10	90		
Chloride	mg/L	80 - 120	1480	OR	1720	OR	3	-8000	*	
Fluoride	mg/L	80 - 120	2.5		0.043	U	2	125	*	
Phosphorus, Ortho	mg/L	80 - 120	7.7		0.01	U	5	154	*	
Nitrite	mg/L	80 - 120	1.6		0.022	U	3	53.3	*	
Nitrate	mg/L	80 - 120	3.4		1.2		2.5	88		
Sulfate	mg/L	80 - 120	54.4	OR	41.8	OR	15	84		

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DUPLICATE SAMPLE SUMMARY

Client: LB93335 **Level:** LOW **SDG No.:** LB93335
Contract: _____ **Lab Code:** CHEM **Case No.:** LB93335 **SAS No.:** LB93335
Matrix: WATER **Sample ID:** J1591-02 **Client ID:** MH-28DUP
Percent Solids for Sample: 0 **Duplicate ID** J1591-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	1.5		1.5		0		
Chloride	mg/L	20	1720	OR	1690	OR	2		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	1.2		1.2		0		
Sulfate	mg/L	20	41.8	OR	41.3	OR	1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93335

SDG No.: LB93335

Contract:

Lab Code: CHEM

Case No.: LB93335

SAS No.: LB93335

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB93335BSW							
Bromide	mg/L	10	9.2		92	90 - 110	
Chloride	mg/L	3	2.7		90	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5.3		106	90 - 110	
Nitrite	mg/L	3	2.7		90	90 - 110	
Nitrate	mg/L	2.5	2.3		92	90 - 110	
Sulfate	mg/L	15	14.1		94	90 - 110	