

Daily Analysis Runlog For Sequence/QC Batch ID # LB94591

Review By

SubDirectory

Review On

Test : Anions

LB94591

STD. NAME		STD REF.#				
ICAL Standard		wp62836,wp62837,wp62838,wp62839,wp62840,wp62841,wp62842,wp62843				
ICV Standard		wp62844				
CCV Standard		wp63695				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		wp63696				
Chk Standard		WP63116,WP63117				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	03/19/18 11:39		OK
2	STD2	STD2	CAL2	03/19/18 12:11		OK
3	STD3	STD3	CAL3	03/19/18 12:43		OK
4	STD4	STD4	CAL4	03/19/18 13:15		OK
5	STD5	STD5	CAL5	03/19/18 13:47		OK
6	STD6	STD6	CAL6	03/19/18 14:19		OK
7	STD7	STD7	CAL7	03/19/18 14:51		OK
8	ICV1	ICV1	ICV	03/19/18 16:27		OK
9	ICB1	ICB1	ICB	03/19/18 17:23		OK
10	CCV1	CCV1	CCV	04/13/18 09:25		OK
11	CCB1	CCB1	CCB	04/13/18 09:56		OK
12	LB94591BLW	LB94591BLW	MB	04/13/18 10:30		OK
13	LB94591BSW	LB94591BSW	LCS	04/13/18 11:01		OK
14	J2339-01	STERIGENICS-TUS	SAM	04/13/18 11:32		OK
15	J2339-01DUP	STERIGENICS-TUS	DUP	04/13/18 12:03		OK
16	J2373-01	POOL-WATER	SAM	04/13/18 12:34		OK
17	CCV2	CCV2	CCV	04/13/18 13:42		OK
18	CCB2	CCB2	CCB	04/13/18 14:13		OK
19	J2339-01MS	STERIGENICS-TUS	MS	04/13/18 14:43		OK
20	J2390-01	2AVE-12	SAM	04/13/18 15:14	CL high	Dilution
21	J2373-01DL	POOL-WATERDL	SAM	04/13/18 15:45	2x report for CL	Confirms



Instrument ID : IC-1

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		wp63696				
Chk Standard		WP63116,WP63117				
22	CCV3	CCV3	CCV	04/13/18 16:16		OK
23	CCB3	CCB3	CCB	04/13/18 16:47		OK



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Report of Analysis

Client:		Date Collected:	4/10/2018 12:00:00 AM
Project:	lb94591	Date Received:	4/12/2018 12:00:00 AM
Client Sample ID:	STERIGENICS-TUSTIN-WATER-SAMPLE-30-MAR-2018	SDG No.:	lb94591
Lab Sample ID:	J2339-01	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	0	U	1	0.066		0.5	mg/L		04/13/2018	300.0
	Chloride	0.47		1	0.075		0.15	mg/L		04/13/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		04/13/2018	300.0
	Nitrate	0.24		1	0.027		0.13	mg/L		04/13/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/13/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/13/2018	300.0
	Sulfate	1.1		1	0.13		0.75	mg/L		04/13/2018	300.0



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Report of Analysis

Client:		Date Collected:	4/12/2018 12:00:00 AM
Project:	lb94591	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	POOL-WATER	SDG No.:	lb94591
Lab Sample ID:	J2373-01	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	0	U	1	0.066		0.5	mg/L		04/13/2018	300.0
	Chloride	10.8	OR	1	0.075		0.15	mg/L		04/13/2018	300.0
	Fluoride	0.35		1	0.043		0.1	mg/L		04/13/2018	300.0
	Nitrate	28.3	OR	1	0.027		0.13	mg/L		04/13/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/13/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/13/2018	300.0
	Sulfate	10		1	0.13		0.75	mg/L		04/13/2018	300.0



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Report of Analysis

Client:		Date Collected:	4/12/2018 12:00:00 AM
Project:	lb94591	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	POOL-WATERDL	SDG No.:	lb94591
Lab Sample ID:	J2373-01DL	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	UD	2	0.13		1	mg/L		04/13/2018	300.0
	Chloride	9.4	D	2	0.15		0.3	mg/L		04/13/2018	300.0
	Fluoride	0	UD	2	0.086		0.2	mg/L		04/13/2018	300.0
	Nitrate	23.9	OR	2	0.054		0.25	mg/L		04/13/2018	300.0
	Nitrite	0	UD	2	0.044		0.3	mg/L		04/13/2018	300.0
	Phosphorus, Ortho	0	UD	2	0.02		0.5	mg/L		04/13/2018	300.0
	Sulfate	4	D	2	0.26		1.5	mg/L		04/13/2018	300.0



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Report of Analysis

Client:		Date Collected:	4/13/2018 12:00:00 AM
Project:	lb94591	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	2AVE-12	SDG No.:	lb94591
Lab Sample ID:	J2390-01	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	1.7		1	0.066		0.5	mg/L		04/13/2018	300.0
	Chloride	930	OR	1	0.075		0.15	mg/L		04/13/2018	300.0
	Fluoride	0.57		1	0.043		0.1	mg/L		04/13/2018	300.0
	Nitrate	0.62		1	0.027		0.13	mg/L		04/13/2018	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		04/13/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		04/13/2018	300.0
	Sulfate	133	OR	1	0.13		0.75	mg/L		04/13/2018	300.0



Report of Analysis

Client:		Date Collected:	4/13/2018 12:00:00 AM
Project:	lb94591	Date Received:	4/13/2018 12:00:00 AM
Client Sample ID:	2AVE-12	SDG No.:	lb94591
Lab Sample ID:	J2390-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: lb94591

SDG No.: lb94591

Contract: _____ Lab Code: CHEM

Case No.: lb94591

SAS No.: lb94591

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	9.7	10	97		90 - 110		03/19/2018	16:27	lb94591
	Chloride	2.9	3	96.7		90 - 110		03/19/2018	16:27	lb94591
	Fluoride	2	2	100		90 - 110		03/19/2018	16:27	lb94591
	Phosphorus, Ortho	5.3	5	106		90 - 110		03/19/2018	16:27	lb94591
	Nitrite	2.9	3	96.7		90 - 110		03/19/2018	16:27	lb94591
	Nitrate	2.4	2.5	96		90 - 110		03/19/2018	16:27	lb94591
	Sulfate	15.2	15	101.3		90 - 110		03/19/2018	16:27	lb94591



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: lb94591

SDG No.: lb94591

Contract: Lab Code: CHEM

Case No.: lb94591

SAS No.: lb94591

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		03/19/2018	17:23	lb94591
	Chloride	0.075	+/-0.15	U		0.15		03/19/2018	17:23	lb94591
	Fluoride	0.043	+/-0.1	U		0.1		03/19/2018	17:23	lb94591
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		03/19/2018	17:23	lb94591
	Nitrite	0.022	+/-0.15	U		0.15		03/19/2018	17:23	lb94591
	Nitrate	0.027	+/-0.13	U		0.13		03/19/2018	17:23	lb94591
	Sulfate	0.13	+/-0.75	U		0.75		03/19/2018	17:23	lb94591

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		04/13/2018	09:56	lb94591
	Chloride	0.075	+/-0.15	U		0.15		04/13/2018	09:56	lb94591
	Fluoride	0.043	+/-0.1	U		0.1		04/13/2018	09:56	lb94591
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/13/2018	09:56	lb94591
	Nitrite	0.022	+/-0.15	U		0.15		04/13/2018	09:56	lb94591
	Nitrate	0.027	+/-0.13	U		0.13		04/13/2018	09:56	lb94591
	Sulfate	0.13	+/-0.75	U		0.75		04/13/2018	09:56	lb94591
CCB2	Bromide	0.066	+/-0.5	U		0.5		04/13/2018	14:13	lb94591
	Chloride	0.075	+/-0.15	U		0.15		04/13/2018	14:13	lb94591
	Fluoride	0.043	+/-0.1	U		0.1		04/13/2018	14:13	lb94591
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/13/2018	14:13	lb94591
	Nitrite	0.022	+/-0.15	U		0.15		04/13/2018	14:13	lb94591
	Nitrate	0.027	+/-0.13	U		0.13		04/13/2018	14:13	lb94591
	Sulfate	0.13	+/-0.75	U		0.75		04/13/2018	14:13	lb94591
CCB3	Bromide	0.066	+/-0.5	U		0.5		04/13/2018	16:47	lb94591
	Chloride	0.075	+/-0.15	U		0.15		04/13/2018	16:47	lb94591
	Fluoride	0.043	+/-0.1	U		0.1		04/13/2018	16:47	lb94591
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		04/13/2018	16:47	lb94591
	Nitrite	0.022	+/-0.15	U		0.15		04/13/2018	16:47	lb94591
	Nitrate	0.027	+/-0.13	U		0.13		04/13/2018	16:47	lb94591
	Sulfate	0.13	+/-0.75	U		0.75		04/13/2018	16:47	lb94591



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

lb94591

SDG No.:

lb94591

Contract:

Lab Code:

CHEM

Case No.:

lb94591

SAS No.:

lb94591

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: lb94591

SDG No.: lb94591

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
LB94591BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		04/13/2018	10:30	lb94591
	Chloride	0.075	<0.15	U		0.15		04/13/2018	10:30	lb94591
	Fluoride	0.043	<0.1	U		0.1		04/13/2018	10:30	lb94591
	Phosphorus, Ortho	0.01	<0.25	U		0.25		04/13/2018	10:30	lb94591
	Nitrite	0.022	<0.15	U		0.15		04/13/2018	10:30	lb94591
	Nitrate	0.027	<0.13	U		0.13		04/13/2018	10:30	lb94591
	Sulfate	0.13	<0.75	U		0.75		04/13/2018	10:30	lb94591



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MATRIX SPIKE SUMMARY

client: lb94591 level: low sdg no.: lb94591
contract: lab code: CHEM case no.: lb94591 sas no.: lb94591
matrix: WATER sample id: J2339-01 client id: STERIGENICS-TUSTIN-WATER-SAMPLE-30-M
Percent Solids for Sample: 0 Spiked ID: J2339-01MS 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	9.9		0.066	U	10	99		
Chloride	mg/L	80 - 120	3.3		0.47		3	94		
Fluoride	mg/L	80 - 120	1.9		0.043	U	2	95		
Phosphorus, Ortho	mg/L	80 - 120	5		0.01	U	5	100		
Nitrite	mg/L	80 - 120	2.9		0.022	U	3	96.7		
Nitrate	mg/L	80 - 120	2.5		0.24		2.5	90		
Sulfate	mg/L	80 - 120	15.1		1.1		15	93		

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DUPLICATE SAMPLE SUMMARY

Client: lb94591 **Level:** LOW **SDG No.:** lb94591
Contract: _____ **Lab Code:** CHEM **Case No.:** lb94591 **SAS No.:** lb94591
Matrix: WATER **Sample ID:** J2339-01 **Client ID:** STERIGENICS-TUSTIN-WATER-SAMPLE-30-M
Percent Solids for Sample: 0 **Duplicate ID** J2339-01DUP **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	0.47		0.46		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	0.24		0.24		0		
Sulfate	mg/L	20	1.1		1.2		9		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: lb94591

SDG No.: lb94591

Contract:

Lab Code: CHEM

Case No.: lb94591

SAS No.: lb94591

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB94591BSW							
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	5.2		104	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	15.4		102.7	90 - 110	