

Daily Analysis Runlog For Sequence/QC Batch ID # LB90185

Review By		Review On				
SubDirectory		LB90185		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP57962,WP57963,WP57964,WP57965,WP57966,WP57967,WP57968				
ICV Standard		WP57969				
CCV Standard		WP58069				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58070				
Chk Standard		WP57970,WP57732				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	09/18/17 11:14		OK
2	STD2	STD2	CAL2	09/18/17 11:43		OK
3	STD3	STD3	CAL3	09/18/17 12:12		OK
4	STD4	STD4	CAL4	09/18/17 12:41		OK
5	STD5	STD5	CAL5	09/18/17 13:10		OK
6	STD6	STD6	CAL6	09/18/17 13:39		OK
7	STD7	STD7	CAL7	09/18/17 14:08		OK
8	ICV1	ICV1	ICV	09/18/17 15:34		OK
9	ICB1	ICB1	ICB	09/18/17 16:03		OK
10	CCV1	CCV1	CCV	09/20/17 10:57		OK
11	CCB1	CCB1	CCB	09/20/17 11:30		OK
12	LB90185BLW	LB90185BLW	MB	09/20/17 12:01		OK
13	LB90185BSW	LB90185BSW	LCS	09/20/17 12:31		OK
14	I5315-01	JS-SYSTEM	SAM	09/20/17 13:56		OK
15	I5316-01	MINI-CELL	SAM	09/20/17 14:27		OK
16	I5316-01DUP	MINI-CELLDUP	DUP	09/20/17 14:58		OK
17	I5316-01MS	MINI-CELLMS	MS	09/20/17 15:29		OK
18	CCV2	CCV2	CCV	09/20/17 16:00		OK
19	CCB2	CCB2	CCB	09/20/17 16:31		OK



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Report of Analysis

Client:		Date Collected:	9/17/2017 12:00:00 AM
Project:	LB90185	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	JS-SYSTEM	SDG No.:	LB90185
Lab Sample ID:	I5315-01	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		09/20/2017	300.0
	Chloride	0	U	1	0.075		0.15	mg/L		09/20/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		09/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		09/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		09/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		09/20/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		09/20/2017	300.0



Report of Analysis

Client:		Date Collected:	9/17/2017 12:00:00 AM
Project:	LB90185	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	MINI-CELL	SDG No.:	LB90185
Lab Sample ID:	I5316-01	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		09/20/2017	300.0
	Chloride	0.17		1	0.075		0.15	mg/L		09/20/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		09/20/2017	300.0
	Nitrate	0.38		1	0.027		0.13	mg/L		09/20/2017	300.0
	Nitrite	0.16		1	0.022		0.15	mg/L		09/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		09/20/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		09/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	9/17/2017 12:00:00 AM
Project:	LB90185	Date Received:	9/20/2017 12:00:00 AM
Client Sample ID:	MINI-CELL	SDG No.:	LB90185
Lab Sample ID:	I5316-01	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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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90185

SDG No.: LB90185

Contract: _____ Lab Code: CHEM

Case No.: LB90185

SAS No.: LB90185

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	10	100	0	90 - 110		09/18/2017	15:34	LB90185
	Chloride	2.9	3	96.7	0	90 - 110		09/18/2017	15:34	LB90185
	Fluoride	2	2	100	0	90 - 110		09/18/2017	15:34	LB90185
	Phosphorus, Ortho	4.8	5	96	0	90 - 110		09/18/2017	15:34	LB90185
	Nitrite	2.9	3	96.7	0	90 - 110		09/18/2017	15:34	LB90185
	Nitrate	2.5	2.5	100	0	90 - 110		09/18/2017	15:34	LB90185
	Sulfate	14.3	15	95.3	0	90 - 110		09/18/2017	15:34	LB90185



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90185

SDG No.: LB90185

Contract: _____ Lab Code: CHEM

Case No.: LB90185

SAS No.: LB90185

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	10.2	10	102	0	90 - 110		09/20/2017	10:57	LB90185
	Chloride	2.9	3	96.7	0	90 - 110		09/20/2017	10:57	LB90185
	Fluoride	2.2	2	110	0	90 - 110		09/20/2017	10:57	LB90185
	Phosphorus, Ortho	5.9	5	118	0	90 - 110		09/20/2017	10:57	LB90185
	Nitrite	2.9	3	96.7	0	90 - 110		09/20/2017	10:57	LB90185
	Nitrate	2.4	2.5	96	0	90 - 110		09/20/2017	10:57	LB90185
	Sulfate	14.4	15	96	0	90 - 110		09/20/2017	10:57	LB90185
CCV2	Bromide	10	10	100	0	90 - 110		09/20/2017	16:00	LB90185
	Chloride	2.9	3	96.7	0	90 - 110		09/20/2017	16:00	LB90185
	Fluoride	2	2	100	0	90 - 110		09/20/2017	16:00	LB90185
	Phosphorus, Ortho	6	5	120	0	90 - 110		09/20/2017	16:00	LB90185
	Nitrite	2.9	3	96.7	0	90 - 110		09/20/2017	16:00	LB90185
	Nitrate	2.4	2.5	96	0	90 - 110		09/20/2017	16:00	LB90185
	Sulfate	14.4	15	96	0	90 - 110		09/20/2017	16:00	LB90185

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		09/18/2017	16:03	LB90185
	Chloride	0.075	+/-0.15	U		0.15		09/18/2017	16:03	LB90185
	Fluoride	0.043	+/-0.1	U		0.1		09/18/2017	16:03	LB90185
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/18/2017	16:03	LB90185
	Nitrite	0.022	+/-0.15	U		0.15		09/18/2017	16:03	LB90185
	Nitrate	0.027	+/-0.13	U		0.13		09/18/2017	16:03	LB90185
	Sulfate	0.13	+/-0.75	U		0.75		09/18/2017	16:03	LB90185



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90185

SDG No.: LB90185

Contract:

Lab Code: CHEM

Case No.: LB90185

SAS No.: LB90185

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		09/20/2017	11:30	LB90185
	Chloride	0.075	+/-0.15	U		0.15		09/20/2017	11:30	LB90185
	Fluoride	0.043	+/-0.1	U		0.1		09/20/2017	11:30	LB90185
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/20/2017	11:30	LB90185
	Nitrite	0.022	+/-0.15	U		0.15		09/20/2017	11:30	LB90185
	Nitrate	0.027	+/-0.13	U		0.13		09/20/2017	11:30	LB90185
	Sulfate	0.13	+/-0.75	U		0.75		09/20/2017	11:30	LB90185
CCB2	Bromide	0.066	+/-0.5	U		0.5		09/20/2017	16:31	LB90185
	Chloride	0.075	+/-0.15	U		0.15		09/20/2017	16:31	LB90185
	Fluoride	0.043	+/-0.1	U		0.1		09/20/2017	16:31	LB90185
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/20/2017	16:31	LB90185
	Nitrite	0.022	+/-0.15	U		0.15		09/20/2017	16:31	LB90185
	Nitrate	0.027	+/-0.13	U		0.13		09/20/2017	16:31	LB90185
	Sulfate	0.13	+/-0.75	U		0.75		09/20/2017	16:31	LB90185



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90185

SDG No.: LB90185

Contract: Lab Code: CHEM

Case No.: LB90185

SAS No.: LB90185

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: LB90185

SDG No.: LB90185

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
LB90185BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		09/20/2017	12:01	LB90185
	Chloride	0.075	<0.15	U		0.15		09/20/2017	12:01	LB90185
	Fluoride	0.043	<0.1	U		0.1		09/20/2017	12:01	LB90185
	Phosphorus, Ortho	0.01	<0.25	U		0.25		09/20/2017	12:01	LB90185
	Nitrite	0.022	<0.15	U		0.15		09/20/2017	12:01	LB90185
	Nitrate	0.027	<0.13	U		0.13		09/20/2017	12:01	LB90185
	Sulfate	0.13	<0.75	U		0.75		09/20/2017	12:01	LB90185



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MATRIX SPIKE SUMMARY

client: LB90185 level: low sdg no.: LB90185
contract: _____ lab code: CHEM case no.: LB90185 sas no.: LB90185
matrix: WATER sample id: I5316-01 client id: MINI-CELLMS
Percent Solids for Sample: 0 Spiked ID: I5316-01MS 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	10.7		0.066	U	10	107		
Chloride	mg/L	80 - 120	3.3		0.17		3	104		
Fluoride	mg/L	80 - 120	2		0.043	U	2	100		
Phosphorus, Ortho	mg/L	80 - 120	6.1		0.01	U	5	122	*	
Nitrite	mg/L	80 - 120	3.2		0.16		3	101		
Nitrate	mg/L	80 - 120	2.8		0.38		2.5	97		
Sulfate	mg/L	80 - 120	15.1		0.13	U	15	100.7		

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DUPLICATE SAMPLE SUMMARY

Client: LB90185 **Level:** LOW **SDG No.:** LB90185
Contract: **Lab Code:** CHEM **Case No.:** LB90185 **SAS No.:** LB90185
Matrix: WATER **Sample ID:** I5316-01 **Client ID:** MINI-CELLDUP
Percent Solids for Sample: 0 **Duplicate ID** I5316-01DUP **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	0.17		0.15		13		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.16		0.16		0		
Nitrate	mg/L	20	0.38		0.39		3		
Sulfate	mg/L	20	0.13	U	0	U			



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90185

SDG No.: LB90185

Contract:

Lab Code: CHEM

Case No.: LB90185

SAS No.: LB90185

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB90185BSW							
Bromide	mg/L	10	10		100	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	6.3		126	90 - 110	
Nitrite	mg/L	3	2.9		96.7	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.6		97.3	90 - 110	
