

Daily Analysis Runlog For Sequence/QC Batch ID # LB87507

Review By

SubDirectory

Review On

Test : Anions

LB87507

STD. NAME		STD REF.#				
ICAL Standard		WP54913,WP54914,WP54915,WP54916,WP54917,WP54918,WP54919				
ICV Standard		WP54920				
CCV Standard		WP54978				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54979				
Chk Standard		WP54734,WP54761				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	05/15/17 11:02		OK
2	STD2	STD2	CAL2	05/15/17 11:31		OK
3	STD3	STD3	CAL3	05/15/17 12:00		OK
4	STD4	STD4	CAL4	05/15/17 12:29		OK
5	STD5	STD5	CAL5	05/15/17 12:58		OK
6	STD6	STD6	CAL6	05/15/17 13:27		OK
7	STD7	STD7	CAL7	05/15/17 13:55		OK
8	ICV1	ICV1	ICV	05/15/17 15:57		OK
9	ICB1	ICB1	ICB	05/15/17 16:26		OK
10	CCV1	CCV1	CCV	05/17/17 09:14		OK
11	CCB1	CCB1	CCB	05/17/17 09:43		OK
12	LB87507BLW	LB87507BLW	MB	05/17/17 10:12		OK
13	LB87507BSW	LB87507BSW	LCS	05/17/17 10:41		OK
14	I3191-02	CELL-B-C	SAM	05/17/17 12:45		OK
15	I3191-02DUP	CELL-B-CDUP	DUP	05/17/17 13:14		OK
16	I3191-02MS	CELL-B-CMS	MS	05/17/17 13:43		OK
17	CCV2	CCV2	CCV	05/17/17 14:12		OK
18	CCB2	CCB2	CCB	05/17/17 14:41		OK



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Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87507	Date Received:	5/17/2017 12:00:00 AM
Client Sample ID:	CELL-B-C	SDG No.:	LB87507
Lab Sample ID:	I3191-02	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		05/17/2017	300.0
	Chloride	0.18		1	0.075		0.15	mg/L		05/17/2017	300.0
	Fluoride	0.14		1	0.043		0.1	mg/L		05/17/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		05/17/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		05/17/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		05/17/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		05/17/2017	300.0



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Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87507	Date Received:	5/17/2017 12:00:00 AM
Client Sample ID:	CELL-B-C	SDG No.:	LB87507
Lab Sample ID:	I3191-02	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	%	%	Acceptance	M	Analysis	Analysis	Run
		mg/L								
ICV1	Bromide	10.4	10	104	0	90 - 110		05/15/2017	15:57	LB87507
	Chloride	3	3	100	0	90 - 110		05/15/2017	15:57	LB87507
	Fluoride	2	2	100	0	90 - 110		05/15/2017	15:57	LB87507
	Phosphorus, Ortho	5.3	5	106	0	90 - 110		05/15/2017	15:57	LB87507
	Nitrite	2.9	3	96.7	0	90 - 110		05/15/2017	15:57	LB87507
	Nitrate	2.5	2.5	100	0	90 - 110		05/15/2017	15:57	LB87507
	Sulfate	14.9	15	99.3	0	90 - 110		05/15/2017	15:57	LB87507



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87507

SDG No.: LB87507

Contract: _____ **Lab Code:** CHEM

Case No.: LB87507

SAS No.: LB87507

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result	True Value	%	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
CCV1	Bromide	10	10	100	0	90 - 110		05/17/2017	09:14	LB87507
	Chloride	2.9	3	96.7	0	90 - 110		05/17/2017	09:14	LB87507
	Fluoride	2.1	2	105	0	90 - 110		05/17/2017	09:14	LB87507
	Phosphorus, Ortho	5.4	5	108	0	90 - 110		05/17/2017	09:14	LB87507
	Nitrite	2.9	3	96.7	0	90 - 110		05/17/2017	09:14	LB87507
	Nitrate	2.4	2.5	96	0	90 - 110		05/17/2017	09:14	LB87507
	Sulfate	14.1	15	94	0	90 - 110		05/17/2017	09:14	LB87507
CCV2	Bromide	10.5	10	105	0	90 - 110		05/17/2017	14:12	LB87507
	Chloride	2.9	3	96.7	0	90 - 110		05/17/2017	14:12	LB87507
	Fluoride	2.1	2	105	0	90 - 110		05/17/2017	14:12	LB87507
	Phosphorus, Ortho	5.9	5	118	0	90 - 110		05/17/2017	14:12	LB87507
	Nitrite	3	3	100	0	90 - 110		05/17/2017	14:12	LB87507
	Nitrate	2.4	2.5	96	0	90 - 110		05/17/2017	14:12	LB87507
	Sulfate	14.1	15	94	0	90 - 110		05/17/2017	14:12	LB87507



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87507

SDG No.: LB87507

Contract: Lab Code: CHEM

Case No.: LB87507

SAS No.: LB87507

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		05/15/2017	16:26	LB87507
	Chloride	0.075	+/-0.15	U		0.15		05/15/2017	16:26	LB87507
	Fluoride	0.043	+/-0.1	U		0.1		05/15/2017	16:26	LB87507
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		05/15/2017	16:26	LB87507
	Nitrite	0.022	+/-0.15	U		0.15		05/15/2017	16:26	LB87507
	Nitrate	0.027	+/-0.13	U		0.13		05/15/2017	16:26	LB87507
	Sulfate	0.13	+/-0.75	U		0.75		05/15/2017	16:26	LB87507



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87507

SDG No.: LB87507

Contract:

Lab Code: CHEM

Case No.: LB87507

SAS No.: LB87507

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		05/17/2017	09:43	LB87507
	Chloride	0.075	+/-0.15	U		0.15		05/17/2017	09:43	LB87507
	Fluoride	0.043	+/-0.1	U		0.1		05/17/2017	09:43	LB87507
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		05/17/2017	09:43	LB87507
	Nitrite	0.022	+/-0.15	U		0.15		05/17/2017	09:43	LB87507
	Nitrate	0.027	+/-0.13	U		0.13		05/17/2017	09:43	LB87507
	Sulfate	0.13	+/-0.75	U		0.75		05/17/2017	09:43	LB87507
CCB2	Bromide	0.066	+/-0.5	U		0.5		05/17/2017	14:41	LB87507
	Chloride	0.075	+/-0.15	U		0.15		05/17/2017	14:41	LB87507
	Fluoride	0.043	+/-0.1	U		0.1		05/17/2017	14:41	LB87507
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		05/17/2017	14:41	LB87507
	Nitrite	0.022	+/-0.15	U		0.15		05/17/2017	14:41	LB87507
	Nitrate	0.027	+/-0.13	U		0.13		05/17/2017	14:41	LB87507
	Sulfate	0.13	+/-0.75	U		0.75		05/17/2017	14:41	LB87507



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87507

SDG No.: LB87507

Contract: Lab Code: CHEM

Case No.: LB87507

SAS No.: LB87507

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: LB87507

SDG No.: LB87507

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
LB87507BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		05/17/2017	10:12	LB87507
	Chloride	0.075	<0.15	U		0.15		05/17/2017	10:12	LB87507
	Fluoride	0.043	<0.1	U		0.1		05/17/2017	10:12	LB87507
	Phosphorus, Ortho	0.01	<0.25	U		0.25		05/17/2017	10:12	LB87507
	Nitrite	0.022	<0.15	U		0.15		05/17/2017	10:12	LB87507
	Nitrate	0.027	<0.13	U		0.13		05/17/2017	10:12	LB87507
	Sulfate	0.13	<0.75	U		0.75		05/17/2017	10:12	LB87507



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- 5a -
MATRIX SPIKE SUMMARY

client: LB87507 level: low sdg no.: LB87507
contract: _____ lab code: CHEM case no.: LB87507 sas no.: LB87507
matrix: WATER sample id: I3191-02 client id: CELL-B-CMS
Percent Solids for Sample: 0 Spiked ID: I3191-02MS 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	9.9		0.066	U	10	99		
Chloride	mg/L	80 - 120	3.1		0.18		3	97		
Fluoride	mg/L	80 - 120	2.1		0.14		2	98		
Phosphorus, Ortho	mg/L	80 - 120	5.7		0.01	U	5	114		
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	14.6		0.13	U	15	97.3		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87507 **Level:** LOW **SDG No.:** LB87507
Contract: _____ **Lab Code:** CHEM **Case No.:** LB87507 **SAS No.:** LB87507
Matrix: WATER **Sample ID:** I3191-02 **Client ID:** CELL-B-CDUP
Percent Solids for Sample: 0 **Duplicate ID** I3191-02DUP **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	0.18		0.18		0		
Fluoride	mg/L	20	0.14		0.14		0		
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.027	U	0	U			
Sulfate	mg/L	20	0.13	U	0	U			



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87507

SDG No.: LB87507

Contract:

Lab Code: CHEM

Case No.: LB87507

SAS No.: LB87507

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB87507BSW							
Bromide	mg/L	10	10		100	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2.1		105	90 - 110	
Phosphorus, Ortho	mg/L	5	6		120	90 - 110	
Nitrite	mg/L	3	3		100	90 - 110	
Nitrate	mg/L	2.5	2.4		96	90 - 110	
Sulfate	mg/L	15	14.6		97.3	90 - 110	
