

Daily Analysis Runlog For Sequence/QC Batch ID # LB90245

Review By		Review On				
SubDirectory		LB90245		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	09/06/17 12:53		OK
2	STD2	STD2	CAL2	09/06/17 13:24		OK
3	STD3	STD3	CAL3	09/06/17 13:55		OK
4	STD4	STD4	CAL4	09/06/17 14:26		OK
5	STD5	STD5	CAL5	09/06/17 14:57		OK
6	STD6	STD6	CAL6	09/06/17 15:28		OK
7	STD7	STD7	CAL7	09/06/17 15:59		OK
8	ICV1	ICV1	ICV	09/06/17 17:32		OK
9	ICB1	ICB1	ICB	09/06/17 18:03		OK
10	CCV1	CCV1	CCV	09/21/17 13:49		OK
11	CCB1	CCB1	CCB	09/21/17 14:20		OK
12	LB90245BLW	LB90245BLW	MB	09/21/17 14:50		OK
13	LB90245BSW	LB90245BSW	LCS	09/21/17 15:20		OK
14	I5366-01	CELL-A	SAM	09/21/17 17:20		OK
15	I5366-02	CELLS-B-C	SAM	09/21/17 17:50		OK
16	I5366-03	CELL-D	SAM	09/21/17 18:19		OK
17	I5366-04	FW1-SUPPLY	SAM	09/21/17 18:49	Cl high	Dilution
18	I5366-05	FW2-3-SUPPLY	SAM	09/21/17 19:19	Cl high	Dilution
19	I5366-05DUP	FW2-3-SUPPLYDUP	DUP	09/21/17 19:49		OK
20	I5366-05MS	FW2-3-SUPPLYMS	MS	09/21/17 20:19		OK
21	CCV2	CCV2	CCV	09/21/17 20:49		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB90245

Review By		Review On				
SubDirectory		LB90245		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				
22	CCB2	CCB2	CCB	09/21/17 21:19		OK
23	CCV3	CCV3	CCV	09/22/17 09:32		OK
24	CCB3	CCB3	CCB	09/22/17 10:02		OK
25	I5366-04DL	FW1-SUPPLYDL	SAM	09/22/17 10:46	5X for Cl	Confirms
26	I5366-05DL	FW2-3-SUPPLYDL	SAM	09/22/17 11:16	5X for Cl	Confirms
27	CCV4	CCV4	CCV	09/22/17 11:46		OK
28	CCB4	CCB4	CCB	09/22/17 12:16		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90245	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	CELL-A	SDG No.:	LB90245
Lab Sample ID:	I5366-01	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		09/21/2017	300.0
	Chloride	0.14	J	1	0.075		0.15	mg/L		09/21/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		09/21/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		09/21/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		09/21/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		09/21/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		09/21/2017	300.0

Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90245	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	CELLS-B-C	SDG No.:	LB90245
Lab Sample ID:	I5366-02	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		09/21/2017	300.0
	Chloride	0.14	J	1	0.075		0.15	mg/L		09/21/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		09/21/2017	300.0
	Nitrate	0.12	J	1	0.027		0.13	mg/L		09/21/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		09/21/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		09/21/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		09/21/2017	300.0

Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90245	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	CELL-D	SDG No.:	LB90245
Lab Sample ID:	I5366-03	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		09/21/2017	300.0
	Chloride	0.14	J	1	0.075		0.15	mg/L		09/21/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		09/21/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		09/21/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		09/21/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		09/21/2017	300.0
	Sulfate	0	U	1	0.13		0.75	mg/L		09/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90245	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	FW1-SUPPLY	SDG No.:	LB90245
Lab Sample ID:	I5366-04	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		09/21/2017	300.0
	Chloride	16.2	OR	1	0.075		0.15	mg/L		09/21/2017	300.0
	Fluoride	0.64		1	0.043		0.1	mg/L		09/21/2017	300.0
	Nitrate	0.77		1	0.027		0.13	mg/L		09/21/2017	300.0
	Nitrite	0.17		1	0.022		0.15	mg/L		09/21/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		09/21/2017	300.0
	Sulfate	23.6		1	0.13		0.75	mg/L		09/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90245	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	FW1-SUPPLYDL	SDG No.:	LB90245
Lab Sample ID:	I5366-04DL	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	5	0.33		2.5	mg/L		09/22/2017	300.0
	Chloride	14.9	D	5	0.38		0.75	mg/L		09/22/2017	300.0
	Fluoride	0.8	D	5	0.22		0.5	mg/L		09/22/2017	300.0
	Nitrate	1.2	D	5	0.14		0.63	mg/L		09/22/2017	300.0
	Nitrite	0	UD	5	0.11		0.75	mg/L		09/22/2017	300.0
	Phosphorus, Ortho	0	UD	5	0.05		1.3	mg/L		09/22/2017	300.0
	Sulfate	24.9	D	5	0.66		3.8	mg/L		09/22/2017	300.0



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90245	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	FW2-3-SUPPLY	SDG No.:	LB90245
Lab Sample ID:	I5366-05	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		09/21/2017	300.0
	Chloride	15.8	OR	1	0.075		0.15	mg/L		09/21/2017	300.0
	Fluoride	0.27		1	0.043		0.1	mg/L		09/21/2017	300.0
	Nitrate	0.73		1	0.027		0.13	mg/L		09/21/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		09/21/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		09/21/2017	300.0
	Sulfate	23.9		1	0.13		0.75	mg/L		09/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90245	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	FW2-3-SUPPLYDL	SDG No.:	LB90245
Lab Sample ID:	I5366-05DL	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	5	0.33		2.5	mg/L		09/22/2017	300.0
	Chloride	14.6	D	5	0.38		0.75	mg/L		09/22/2017	300.0
	Fluoride	0.46	JD	5	0.22		0.5	mg/L		09/22/2017	300.0
	Nitrate	1.2	D	5	0.14		0.63	mg/L		09/22/2017	300.0
	Nitrite	0	UD	5	0.11		0.75	mg/L		09/22/2017	300.0
	Phosphorus, Ortho	0	UD	5	0.05		1.3	mg/L		09/22/2017	300.0
	Sulfate	25.2	D	5	0.66		3.8	mg/L		09/22/2017	300.0



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90245	Date Received:	9/21/2017 12:00:00 AM
Client Sample ID:	FW2-3-SUPPLYDL	SDG No.:	LB90245
Lab Sample ID:	I5366-05DL	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: LB90245

SDG No.: LB90245

Contract: _____ Lab Code: CHEM

Case No.: LB90245

SAS No.: LB90245

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	9.8	10	98	0	90 - 110		09/06/2017	17:32	LB90245
	Chloride	2.9	3	96.7	0	90 - 110		09/06/2017	17:32	LB90245
	Fluoride	2	2	100	0	90 - 110		09/06/2017	17:32	LB90245
	Phosphorus, Ortho	5.2	5	104	0	90 - 110		09/06/2017	17:32	LB90245
	Nitrite	2.9	3	96.7	0	90 - 110		09/06/2017	17:32	LB90245
	Nitrate	2.4	2.5	96	0	90 - 110		09/06/2017	17:32	LB90245
	Sulfate	14.6	15	97.3	0	90 - 110		09/06/2017	17:32	LB90245



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90245

SDG No.: LB90245

Contract:

Lab Code: CHEM

Case No.: LB90245

SAS No.: LB90245

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		09/06/2017	18:03	LB90245
	Chloride	0.075	+/-0.15	U		0.15		09/06/2017	18:03	LB90245
	Fluoride	0.043	+/-0.1	U		0.1		09/06/2017	18:03	LB90245
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/06/2017	18:03	LB90245
	Nitrite	0.022	+/-0.15	U		0.15		09/06/2017	18:03	LB90245
	Nitrate	0.027	+/-0.13	U		0.13		09/06/2017	18:03	LB90245
	Sulfate	0.13	+/-0.75	U		0.75		09/06/2017	18:03	LB90245

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		09/21/2017	14:20	LB90245
	Chloride	0.075	+/-0.15	U		0.15		09/21/2017	14:20	LB90245
	Fluoride	0.043	+/-0.1	U		0.1		09/21/2017	14:20	LB90245
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/21/2017	14:20	LB90245
	Nitrite	0.022	+/-0.15	U		0.15		09/21/2017	14:20	LB90245
	Nitrate	0.027	+/-0.13	U		0.13		09/21/2017	14:20	LB90245
	Sulfate	0.13	+/-0.75	U		0.75		09/21/2017	14:20	LB90245
CCB2	Bromide	0.066	+/-0.5	U		0.5		09/21/2017	21:19	LB90245
	Chloride	0.075	+/-0.15	U		0.15		09/21/2017	21:19	LB90245
	Fluoride	0.043	+/-0.1	U		0.1		09/21/2017	21:19	LB90245
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/21/2017	21:19	LB90245
	Nitrite	0.022	+/-0.15	U		0.15		09/21/2017	21:19	LB90245
	Nitrate	0.027	+/-0.13	U		0.13		09/21/2017	21:19	LB90245
	Sulfate	0.13	+/-0.75	U		0.75		09/21/2017	21:19	LB90245
CCB3	Bromide	0.066	+/-0.5	U		0.5		09/22/2017	10:02	LB90245
	Chloride	0.075	+/-0.15	U		0.15		09/22/2017	10:02	LB90245
	Fluoride	0.043	+/-0.1	U		0.1		09/22/2017	10:02	LB90245
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/22/2017	10:02	LB90245
	Nitrite	0.022	+/-0.15	U		0.15		09/22/2017	10:02	LB90245
	Nitrate	0.027	+/-0.13	U		0.13		09/22/2017	10:02	LB90245
	Sulfate	0.13	+/-0.75	U		0.75		09/22/2017	10:02	LB90245
CCB4	Bromide	0.066	+/-0.5	U		0.5		09/22/2017	12:16	LB90245
	Chloride	0.075	+/-0.15	U		0.15		09/22/2017	12:16	LB90245
	Fluoride	0.043	+/-0.1	U		0.1		09/22/2017	12:16	LB90245
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		09/22/2017	12:16	LB90245
	Nitrite	0.022	+/-0.15	U		0.15		09/22/2017	12:16	LB90245
	Nitrate	0.027	+/-0.13	U		0.13		09/22/2017	12:16	LB90245
	Sulfate	0.13	+/-0.75	U		0.75		09/22/2017	12:16	LB90245



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90245

SDG No.: LB90245

Contract: Lab Code: CHEM

Case No.: LB90245

SAS No.: LB90245

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: LB90245

SDG No.: LB90245

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
LB90245BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		09/21/2017	14:50	LB90245
	Chloride	0.075	<0.15	U		0.15		09/21/2017	14:50	LB90245
	Fluoride	0.043	<0.1	U		0.1		09/21/2017	14:50	LB90245
	Phosphorus, Ortho	0.01	<0.25	U		0.25		09/21/2017	14:50	LB90245
	Nitrite	0.022	<0.15	U		0.15		09/21/2017	14:50	LB90245
	Nitrate	0.027	<0.13	U		0.13		09/21/2017	14:50	LB90245
	Sulfate	0.13	<0.75	U		0.75		09/21/2017	14:50	LB90245



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- 5a -
MATRIX SPIKE SUMMARY

client: LB90245 level: low sdg no.: LB90245
contract: lab code: CHEM case no.: LB90245 sas no.: LB90245
matrix: WATER sample id: I5366-05 client id: FW2-3-SUPPLYMS
Percent Solids for Sample: 0 Spiked ID: I5366-05MS 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		0.066	U	10	100		
Chloride	mg/L	80 - 120	18.2	OR	15.8	OR	3	80		
Fluoride	mg/L	80 - 120	2.1		0.27		2	92		
Phosphorus, Ortho	mg/L	80 - 120	6.9		0.01	U	5	138	*	
Nitrite	mg/L	80 - 120	3		0.022	U	3	100		
Nitrate	mg/L	80 - 120	3.2		0.73		2.5	99		
Sulfate	mg/L	80 - 120	37.7	OR	23.9		15	92		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90245 **Level:** LOW **SDG No.:** LB90245
Contract: _____ **Lab Code:** CHEM **Case No.:** LB90245 **SAS No.:** LB90245
Matrix: WATER **Sample ID:** I5366-05 **Client ID:** FW2-3-SUPPLYDUP
Percent Solids for Sample: 0 **Duplicate ID** I5366-05DUP **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	15.8	OR	15.7	OR	1		
Fluoride	mg/L	20	0.27		0.27		0		
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.022	U	0	U			
Nitrate	mg/L	20	0.73		0.73		0		
Sulfate	mg/L	20	23.9		23.9		0		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90245

SDG No.: LB90245

Contract:

Lab Code: CHEM

Case No.: LB90245

SAS No.: LB90245

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB90245BSW							
Bromide	mg/L	10	9.6		96	90 - 110	
Chloride	mg/L	3	2.9		96.7	90 - 110	
Fluoride	mg/L	2	2		100	90 - 110	
Phosphorus, Ortho	mg/L	5	5.6		112	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	14.3		95.3	90 - 110	
