

Daily Analysis Runlog For Sequence/QC Batch ID # LB92124

Review By

Review On

SubDirectory

LB92124

Test :

Anions

STD. NAME		STD REF.#				
ICAL Standard		WP60207,WP60208,WP60209,WP60210,WP60211,WP60212,WP60213				
ICV Standard		WP60214				
CCV Standard		WP60305				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60306				
Chk Standard		WP60017,WP60019				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	12/08/17 10:06		OK
2	STD2	STD2	CAL2	12/08/17 10:49		OK
3	STD3	STD3	CAL3	12/08/17 11:20		OK
4	STD4	STD4	CAL4	12/08/17 11:51		OK
5	STD5	STD5	CAL5	12/08/17 12:22		OK
6	STD6	STD6	CAL6	12/08/17 12:53		OK
7	STD7	STD7	CAL7	12/08/17 13:23		OK
8	ICV1	ICV1	ICV	12/08/17 13:54		OK
9	ICB1	ICB1	ICB	12/08/17 14:47		OK
10	CCV1	CCV1	CCV	12/13/17 09:37		OK
11	CCB1	CCB1	CCB	12/13/17 10:08		OK
12	LB92124BLW	LB92124BLW	MB	12/13/17 10:39		OK
13	LB92124BSW	LB92124BSW	LCS	12/13/17 11:10		OK
14	I6886-01	SEEP-DRAINS-1	SAM	12/13/17 11:41	Chloride High	Dilution
15	I6886-02	SEEP-DRAINS-2	SAM	12/13/17 12:13		OK
16	I6886-03	SEEP-DRAINS-3	SAM	12/13/17 12:44		OK
17	I6886-04	SEEP-DRAINS-4	SAM	12/13/17 13:15	Chloride High	Dilution
18	I6886-04DUP	SEEP-DRAINS-4DUP	DUP	12/13/17 13:46		OK
19	I6886-04MS	SEEP-DRAINS-4MS	MS	12/13/17 14:17		OK
20	I6886-01DL	SEEP-DRAINS-1DL	SAM	12/13/17 14:50	2X For Chloride	Confirms
21	I6886-04DL	SEEP-DRAINS-4DL	SAM	12/13/17 15:21	2X For Chloride	Confirms



Instrument ID : IC-1

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB92124

Review By		Review On				
SubDirectory		Test : Anions				
LB92124						
STD. NAME		STD REF.#				
ICAL Standard		WP60207,WP60208,WP60209,WP60210,WP60211,WP60212,WP60213				
ICV Standard		WP60214				
CCV Standard		WP60305				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60306				
Chk Standard		WP60017,WP60019				
22	CCV2	CCV2	CCV	12/13/17 15:52		OK
23	CCB2	CCB2	CCB	12/13/17 16:23		OK



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Report of Analysis

Client:		Date Collected:	12/12/2017 12:00:00 AM
Project:	LB92124	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	SEEP-DRAINS-1	SDG No.:	LB92124
Lab Sample ID:	I6886-01	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		12/13/2017	300.0
	Chloride	7.8	OR	1	0.075		0.15	mg/L		12/13/2017	300.0
	Fluoride	0.21		1	0.043		0.1	mg/L		12/13/2017	300.0
	Nitrate	0.45		1	0.027		0.13	mg/L		12/13/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/13/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/13/2017	300.0
	Sulfate	18.4		1	0.13		0.75	mg/L		12/13/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/12/2017 12:00:00 AM
Project:	LB92124	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	SEEP-DRAINS-1DL	SDG No.:	LB92124
Lab Sample ID:	I6886-01DL	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		12/13/2017	300.0
	Chloride	7.9	D	2	0.15		0.3	mg/L		12/13/2017	300.0
	Fluoride	0	UD	2	0.086		0.2	mg/L		12/13/2017	300.0
	Nitrate	0.55	D	2	0.054		0.25	mg/L		12/13/2017	300.0
	Nitrite	0	UD	2	0.044		0.3	mg/L		12/13/2017	300.0
	Phosphorus, Ortho	0	UD	2	0.02		0.5	mg/L		12/13/2017	300.0
	Sulfate	17.4	D	2	0.26		1.5	mg/L		12/13/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/12/2017 12:00:00 AM
Project:	LB92124	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	SEEP-DRAINS-2	SDG No.:	LB92124
Lab Sample ID:	I6886-02	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		12/13/2017	300.0
	Chloride	3.9		1	0.075		0.15	mg/L		12/13/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/13/2017	300.0
	Nitrate	2.1		1	0.027		0.13	mg/L		12/13/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/13/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/13/2017	300.0
	Sulfate	15.1		1	0.13		0.75	mg/L		12/13/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/12/2017 12:00:00 AM
Project:	LB92124	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	SEEP-DRAINS-3	SDG No.:	LB92124
Lab Sample ID:	I6886-03	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		12/13/2017	300.0
	Chloride	6.1		1	0.075		0.15	mg/L		12/13/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/13/2017	300.0
	Nitrate	0.22		1	0.027		0.13	mg/L		12/13/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/13/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/13/2017	300.0
	Sulfate	47.3	OR	1	0.13		0.75	mg/L		12/13/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/12/2017 12:00:00 AM
Project:	LB92124	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	SEEP-DRAINS-4	SDG No.:	LB92124
Lab Sample ID:	I6886-04	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		12/13/2017	300.0
	Chloride	7.8	OR	1	0.075		0.15	mg/L		12/13/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/13/2017	300.0
	Nitrate	0.42		1	0.027		0.13	mg/L		12/13/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/13/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/13/2017	300.0
	Sulfate	34.3		1	0.13		0.75	mg/L		12/13/2017	300.0

Report of Analysis

Client:		Date Collected:	12/12/2017 12:00:00 AM
Project:	LB92124	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	SEEP-DRAINS-4DL	SDG No.:	LB92124
Lab Sample ID:	I6886-04DL	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	2	0.13		1	mg/L		12/13/2017	300.0
	Chloride	7.6	D	2	0.15		0.3	mg/L		12/13/2017	300.0
	Fluoride	0	UD	2	0.086		0.2	mg/L		12/13/2017	300.0
	Nitrate	0.52	D	2	0.054		0.25	mg/L		12/13/2017	300.0
	Nitrite	0	UD	2	0.044		0.3	mg/L		12/13/2017	300.0
	Phosphorus, Ortho	0	UD	2	0.02		0.5	mg/L		12/13/2017	300.0
	Sulfate	31.7	D	2	0.26		1.5	mg/L		12/13/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/12/2017 12:00:00 AM
Project:	LB92124	Date Received:	12/12/2017 12:00:00 AM
Client Sample ID:	SEEP-DRAINS-4DL	SDG No.:	LB92124
Lab Sample ID:	I6886-04DL	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB92124

SDG No.: LB92124

Contract: _____ Lab Code: CHEM

Case No.: LB92124

SAS No.: LB92124

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	9.6	10	96	0	90 - 110		12/08/2017	13:54	lb92124
	Chloride	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	lb92124
	Fluoride	1.8	2	90	0	90 - 110		12/08/2017	13:54	lb92124
	Phosphorus, Ortho	5.4	5	108	0	90 - 110		12/08/2017	13:54	lb92124
	Nitrite	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	lb92124
	Nitrate	2.4	2.5	96	0	90 - 110		12/08/2017	13:54	lb92124
	Sulfate	14.1	15	94	0	90 - 110		12/08/2017	13:54	lb92124



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92124

SDG No.: LB92124

Contract: Lab Code: CHEM

Case No.: LB92124

SAS No.: LB92124

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		12/08/2017	14:47	lb92124
	Chloride	0.075	+/-0.15	U		0.15		12/08/2017	14:47	lb92124
	Fluoride	0.043	+/-0.1	U		0.1		12/08/2017	14:47	lb92124
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/08/2017	14:47	lb92124
	Nitrite	0.022	+/-0.15	U		0.15		12/08/2017	14:47	lb92124
	Nitrate	0.027	+/-0.13	U		0.13		12/08/2017	14:47	lb92124
	Sulfate	0.13	+/-0.75	U		0.75		12/08/2017	14:47	lb92124



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92124

SDG No.: LB92124

Contract:

Lab Code: CHEM

Case No.: LB92124

SAS No.: LB92124

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		12/13/2017	10:08	lb92124
	Chloride	0.075	+/-0.15	U		0.15		12/13/2017	10:08	lb92124
	Fluoride	0.043	+/-0.1	U		0.1		12/13/2017	10:08	lb92124
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/13/2017	10:08	lb92124
	Nitrite	0.022	+/-0.15	U		0.15		12/13/2017	10:08	lb92124
	Nitrate	0.027	+/-0.13	U		0.13		12/13/2017	10:08	lb92124
	Sulfate	0.13	+/-0.75	U		0.75		12/13/2017	10:08	lb92124
CCB2	Bromide	0.066	+/-0.5	U		0.5		12/13/2017	16:23	lb92124
	Chloride	0.075	+/-0.15	U		0.15		12/13/2017	16:23	lb92124
	Fluoride	0.043	+/-0.1	U		0.1		12/13/2017	16:23	lb92124
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/13/2017	16:23	lb92124
	Nitrite	0.022	+/-0.15	U		0.15		12/13/2017	16:23	lb92124
	Nitrate	0.027	+/-0.13	U		0.13		12/13/2017	16:23	lb92124
	Sulfate	0.13	+/-0.75	U		0.75		12/13/2017	16:23	lb92124



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92124

SDG No.: LB92124

Contract: Lab Code: CHEM

Case No.: LB92124

SAS No.: LB92124

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: LB92124

SDG No.: LB92124

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
LB92124BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		12/13/2017	10:39	lb92124
	Chloride	0.075	<0.15	U		0.15		12/13/2017	10:39	lb92124
	Fluoride	0.043	<0.1	U		0.1		12/13/2017	10:39	lb92124
	Phosphorus, Ortho	0.01	<0.25	U		0.25		12/13/2017	10:39	lb92124
	Nitrite	0.022	<0.15	U		0.15		12/13/2017	10:39	lb92124
	Nitrate	0.027	<0.13	U		0.13		12/13/2017	10:39	lb92124
	Sulfate	0.13	<0.75	U		0.75		12/13/2017	10:39	lb92124



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MATRIX SPIKE SUMMARY

client: LB92124 level: low sdg no.: LB92124
contract: lab code: CHEM case no.: LB92124 sas no.: LB92124
matrix: WATER sample id: I6886-04 client id: SEEP-DRAINS-4MS
Percent Solids for Sample: 0 Spiked ID: I6886-04MS 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	10.3	OR	7.8	OR	3	83		
Fluoride	mg/L	80 - 120	3.5		0.043	U	2	175	*	
Phosphorus, Ortho	mg/L	80 - 120	9.4		0.01	U	5	188	*	
Nitrite	mg/L	80 - 120	3		0.022	U	3	100		
Nitrate	mg/L	80 - 120	2.8		0.42		2.5	95		
Sulfate	mg/L	80 - 120	45.4	OR	34.3		15	74	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB92124 **Level:** LOW **SDG No.:** LB92124
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92124 **SAS No.:** LB92124
Matrix: WATER **Sample ID:** I6886-04 **Client ID:** SEEP-DRAINS-4DUP
Percent Solids for Sample: 0 **Duplicate ID** I6886-04DUP **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	7.8	OR	7.8	OR	0		
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	0.42		0.42		0		
Sulfate	mg/L	20	34.3		34.6		1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92124

SDG No.: LB92124

Contract:

Lab Code: CHEM

Case No.: LB92124

SAS No.: LB92124

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92124BSW							
Bromide	mg/L	10	9.6		96	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	5.8		116	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	14		93.3	90 - 110	
