

Daily Analysis Runlog For Sequence/QC Batch ID # LB92306

Review By		Review On				
SubDirectory		LB92306		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP60207,WP60208,WP60209,WP60210,WP60211,WP60212,WP60213				
ICV Standard		WP60214				
CCV Standard		WP60435				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60436				
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	12/20/17 12:15	Fail for OPO4	OK
11	CCB1	CCB1	CCB	12/20/17 12:48		OK
12	LB92306BLW	LB92306BLW	MB	12/20/17 13:18		OK
13	LB92306BSW	LB92306BSW	LCS	12/20/17 13:48		OK
14	I6991-01	MW-19	SAM	12/20/17 14:20	CL,SO4 high	Dilution
15	I6991-02	MW-7	SAM	12/20/17 14:50	CL,SO4 high	Dilution
16	I6991-03	MW-45	SAM	12/20/17 15:20	CL high	Dilution
17	I6991-07	MW-27D	SAM	12/20/17 15:50	CL high	Dilution
18	I6991-09	MW-28V	SAM	12/20/17 16:19	CL high	Dilution
19	I6991-08	MW-31V	SAM	12/20/17 16:49	CL high	Dilution
20	I6991-08DUP	MW-31VDUP	DUP	12/20/17 17:19		OK
21	I6991-08MS	MW-31VMS	MS	12/20/17 17:49		OK

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SubDirectory		LB92306		Test : Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP60207,WP60208,WP60209,WP60210,WP60211,WP60212,WP60213				
ICV Standard		WP60214				
CCV Standard		WP60435				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60436				
Chk Standard		WP60017,WP60019				
22	CCV2	CCV2	CCV	12/20/17 18:19	Fail for OPO4	OK
23	CCB2	CCB2	CCB	12/20/17 18:49		OK
24	I7011-02	MW-1-121917	SAM	12/20/17 19:19	CL high	Dilution
25	I7011-03	MW-2-121917	SAM	12/20/17 19:49	CL high	Dilution
26	I7011-05	SVMP-121917	SAM	12/20/17 20:19	CL high	Dilution
27	I7011-06	MW-8S-121917	SAM	12/20/17 20:49	CL high	Dilution
28	I6991-01DL	MW-19DL	SAM	12/20/17 21:19	2X for CL,SO4,Still CL high	Dilution
29	I6991-01DL2	MW-19DL2	SAM	12/20/17 21:48	20X for CL	Confirms
30	I6991-02DL	MW-7DL	SAM	12/20/17 22:18	2X for CL,SO4,Still CL high	Dilution
31	I6991-02DL2	MW-7DL2	SAM	12/20/17 22:48	500X for CL	Confirms
32	I6991-03DL	MW-45DL	SAM	12/20/17 23:18	100X for CL	Confirms
33	I6991-07DL	MW-27DDL	SAM	12/20/17 23:48	200X for CL	Confirms
34	CCV3	CCV3	CCV	12/21/17 00:18	Fail for OPO4	OK
35	CCB3	CCB3	CCB	12/21/17 00:48		OK
36	I6991-09DL	MW-28VDL	SAM	12/21/17 01:18	100X for CL	Confirms
37	I6991-08DL	MW-31VDL	SAM	12/21/17 01:48	100X for CL	Confirms
38	CCV4	CCV4	CCV	12/21/17 02:18	Fail for OPO4	OK
39	CCB4	CCB4	CCB	12/21/17 02:48		OK
40	CCV5	CCV5	CCV	12/21/17 09:24	Fail for OPO4	OK
41	CCB5	CCB5	CCB	12/21/17 10:09		OK
42	LB92306BLW2	LB92306BLW2	MB	12/21/17 10:40		OK
43	LB92306BSW2	LB92306BSW2	LCS	12/21/17 11:11		OK

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STD. NAME		STD REF.#				
ICAL Standard		WP60207,WP60208,WP60209,WP60210,WP60211,WP60212,WP60213				
ICV Standard		WP60214				
CCV Standard		WP60435				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP60436				
Chk Standard		WP60017,WP60019				
44	I7011-02DL	MW-1-121917DL	SAM	12/21/17 11:44	200X for CL	Confirms
45	I7011-03DL	MW-2-121917DL	SAM	12/21/17 12:15	200X for CL	Confirms
46	I7011-05DL	SVMP-121917DL	SAM	12/21/17 12:46	500X for CL	Confirms
47	I7011-06DL	MW-8S-121917DL	SAM	12/21/17 13:17	500X for CL	Confirms
48	CCV6	CCV6	CCV	12/21/17 13:48	Fail for OPO4	OK
49	CCB6	CCB6	CCB	12/21/17 14:19		OK



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-19	SDG No.:	LB92306
Lab Sample ID:	I6991-01	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		12/20/2017	300.0
	Chloride	74	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	38.2	OR	1	0.13		0.75	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-19DL	SDG No.:	LB92306
Lab Sample ID:	I6991-01DL	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		12/20/2017	300.0
	Chloride	69.4	OR	2	0.15		0.3	mg/L		12/20/2017	300.0
	Fluoride	0	UD	2	0.086		0.2	mg/L		12/20/2017	300.0
	Nitrate	0	UD	2	0.054		0.25	mg/L		12/20/2017	300.0
	Nitrite	0	UD	2	0.044		0.3	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	UD	2	0.02		0.5	mg/L		12/20/2017	300.0
	Sulfate	36.5	D	2	0.26		1.5	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-19DL2	SDG No.:	LB92306
Lab Sample ID:	I6991-01DL2	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	20	1.3		10	mg/L		12/20/2017	300.0
	Chloride	60.1	D	20	1.5		3	mg/L		12/20/2017	300.0
	Fluoride	0	UD	20	0.86		2	mg/L		12/20/2017	300.0
	Nitrate	0	UD	20	0.54		2.5	mg/L		12/20/2017	300.0
	Nitrite	0	UD	20	0.44		3	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	UD	20	0.2		5	mg/L		12/20/2017	300.0
	Sulfate	44.9	D	20	2.6		15	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-7	SDG No.:	LB92306
Lab Sample ID:	I6991-02	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		12/20/2017	300.0
	Chloride	1830	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	150	OR	1	0.13		0.75	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-7DL	SDG No.:	LB92306
Lab Sample ID:	I6991-02DL	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	10	0.66		5	mg/L		12/20/2017	300.0
	Chloride	1700	OR	10	0.75		1.5	mg/L		12/20/2017	300.0
	Fluoride	0	UD	10	0.43		1	mg/L		12/20/2017	300.0
	Nitrate	0	UD	10	0.27		1.3	mg/L		12/20/2017	300.0
	Nitrite	0	UD	10	0.22		1.5	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	UD	10	0.1		2.5	mg/L		12/20/2017	300.0
	Sulfate	125	D	10	1.3		7.5	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-7DL2	SDG No.:	LB92306
Lab Sample ID:	I6991-02DL2	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	500	33		250	mg/L		12/20/2017	300.0
	Chloride	1180	D	500	37.5		75	mg/L		12/20/2017	300.0
	Fluoride	0	UD	500	21.5		50	mg/L		12/20/2017	300.0
	Nitrate	0	UD	500	13.5		62.5	mg/L		12/20/2017	300.0
	Nitrite	0	UD	500	11		75	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	UD	500	5		125	mg/L		12/20/2017	300.0
	Sulfate	0	UD	500	66		375	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-45	SDG No.:	LB92306
Lab Sample ID:	I6991-03	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		12/20/2017	300.0
	Chloride	868	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0.27		1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	8.7		1	0.13		0.75	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-45DL	SDG No.:	LB92306
Lab Sample ID:	I6991-03DL	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	100	6.6		50	mg/L		12/20/2017	300.0
	Chloride	587	D	100	7.5		15	mg/L		12/20/2017	300.0
	Fluoride	0	UD	100	4.3		10	mg/L		12/20/2017	300.0
	Nitrate	0	UD	100	2.7		12.5	mg/L		12/20/2017	300.0
	Nitrite	0	UD	100	2.2		15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	UD	100	1		25	mg/L		12/20/2017	300.0
	Sulfate	0	UD	100	13.2		75	mg/L		12/20/2017	300.0



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Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-27D	SDG No.:	LB92306
Lab Sample ID:	I6991-07	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		12/20/2017	300.0
	Chloride	1050	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	0.87		1	0.13		0.75	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-27DDL	SDG No.:	LB92306
Lab Sample ID:	I6991-07DL	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	200	13.2		100	mg/L		12/20/2017	300.0
	Chloride	684	D	200	15		30	mg/L		12/20/2017	300.0
	Fluoride	0	UD	200	8.6		20	mg/L		12/20/2017	300.0
	Nitrate	0	UD	200	5.4		25	mg/L		12/20/2017	300.0
	Nitrite	0	UD	200	4.4		30	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	UD	200	2		50	mg/L		12/20/2017	300.0
	Sulfate	0	UD	200	26.4		150	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-31V	SDG No.:	LB92306
Lab Sample ID:	I6991-08	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		12/20/2017	300.0
	Chloride	616	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	15.7		1	0.13		0.75	mg/L		12/20/2017	300.0



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Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-31VDL	SDG No.:	LB92306
Lab Sample ID:	I6991-08DL	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	100	6.6		50	mg/L		12/21/2017	300.0
	Chloride	405	D	100	7.5		15	mg/L		12/21/2017	300.0
	Fluoride	0	UD	100	4.3		10	mg/L		12/21/2017	300.0
	Nitrate	0	UD	100	2.7		12.5	mg/L		12/21/2017	300.0
	Nitrite	0	UD	100	2.2		15	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	UD	100	1		25	mg/L		12/21/2017	300.0
	Sulfate	0	UD	100	13.2		75	mg/L		12/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-28V	SDG No.:	LB92306
Lab Sample ID:	I6991-09	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	0.66		1	0.066		0.5	mg/L		12/20/2017	300.0
	Chloride	772	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0.3		1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	9.9		1	0.13		0.75	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-28VDL	SDG No.:	LB92306
Lab Sample ID:	I6991-09DL	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	100	6.6		50	mg/L		12/21/2017	300.0
	Chloride	682	D	100	7.5		15	mg/L		12/21/2017	300.0
	Fluoride	0	UD	100	4.3		10	mg/L		12/21/2017	300.0
	Nitrate	0	UD	100	2.7		12.5	mg/L		12/21/2017	300.0
	Nitrite	0	UD	100	2.2		15	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	UD	100	1		25	mg/L		12/21/2017	300.0
	Sulfate	0	UD	100	13.2		75	mg/L		12/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-1-121917	SDG No.:	LB92306
Lab Sample ID:	I7011-02	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		12/20/2017	300.0
	Chloride	1550	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0.25		1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	10.3		1	0.13		0.75	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-1-121917DL	SDG No.:	LB92306
Lab Sample ID:	I7011-02DL	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	200	13.2		100	mg/L		12/21/2017	300.0
	Chloride	1000	D	200	15		30	mg/L		12/21/2017	300.0
	Fluoride	0	UD	200	8.6		20	mg/L		12/21/2017	300.0
	Nitrate	0	UD	200	5.4		25	mg/L		12/21/2017	300.0
	Nitrite	0	UD	200	4.4		30	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	UD	200	2		50	mg/L		12/21/2017	300.0
	Sulfate	0	UD	200	26.4		150	mg/L		12/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-2-121917	SDG No.:	LB92306
Lab Sample ID:	I7011-03	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		12/20/2017	300.0
	Chloride	1430	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	23.7		1	0.13		0.75	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-2-121917DL	SDG No.:	LB92306
Lab Sample ID:	I7011-03DL	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	200	13.2		100	mg/L		12/21/2017	300.0
	Chloride	897	D	200	15		30	mg/L		12/21/2017	300.0
	Fluoride	0	UD	200	8.6		20	mg/L		12/21/2017	300.0
	Nitrate	0	UD	200	5.4		25	mg/L		12/21/2017	300.0
	Nitrite	0	UD	200	4.4		30	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	UD	200	2		50	mg/L		12/21/2017	300.0
	Sulfate	0	UD	200	26.4		150	mg/L		12/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	SVMP-121917	SDG No.:	LB92306
Lab Sample ID:	I7011-05	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		12/20/2017	300.0
	Chloride	2310	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0.22		1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	29.5		1	0.13		0.75	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	SVMP-121917DL	SDG No.:	LB92306
Lab Sample ID:	I7011-05DL	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	500	33		250	mg/L		12/21/2017	300.0
	Chloride	1460	D	500	37.5		75	mg/L		12/21/2017	300.0
	Fluoride	0	UD	500	21.5		50	mg/L		12/21/2017	300.0
	Nitrate	0	UD	500	13.5		62.5	mg/L		12/21/2017	300.0
	Nitrite	0	UD	500	11		75	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	UD	500	5		125	mg/L		12/21/2017	300.0
	Sulfate	0	UD	500	66		375	mg/L		12/21/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-8S-121917	SDG No.:	LB92306
Lab Sample ID:	I7011-06	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	0.69		1	0.066		0.5	mg/L		12/20/2017	300.0
	Chloride	3250	OR	1	0.075		0.15	mg/L		12/20/2017	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		12/20/2017	300.0
	Nitrate	0	U	1	0.027		0.13	mg/L		12/20/2017	300.0
	Nitrite	0	U	1	0.022		0.15	mg/L		12/20/2017	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		12/20/2017	300.0
	Sulfate	11.5		1	0.13		0.75	mg/L		12/20/2017	300.0



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Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-8S-121917DL	SDG No.:	LB92306
Lab Sample ID:	I7011-06DL	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	500	33		250	mg/L		12/21/2017	300.0
	Chloride	2090	D	500	37.5		75	mg/L		12/21/2017	300.0
	Fluoride	0	UD	500	21.5		50	mg/L		12/21/2017	300.0
	Nitrate	0	UD	500	13.5		62.5	mg/L		12/21/2017	300.0
	Nitrite	0	UD	500	11		75	mg/L		12/21/2017	300.0
	Phosphorus, Ortho	0	UD	500	5		125	mg/L		12/21/2017	300.0
	Sulfate	0	UD	500	66		375	mg/L		12/21/2017	300.0



Report of Analysis

Client:		Date Collected:	12/19/2017 12:00:00 AM
Project:	LB92306	Date Received:	12/20/2017 12:00:00 AM
Client Sample ID:	MW-8S-121917DL	SDG No.:	LB92306
Lab Sample ID:	I7011-06DL	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92306

SDG No.: LB92306

Contract: _____ Lab Code: CHEM

Case No.: LB92306

SAS No.: LB92306

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	LB92306
	Chloride	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	LB92306
	Fluoride	1.8	2	90	0	90 - 110		12/08/2017	13:54	LB92306
	Phosphorus, Ortho	5.4	5	108	0	90 - 110		12/08/2017	13:54	LB92306
	Nitrite	2.9	3	96.7	0	90 - 110		12/08/2017	13:54	LB92306
	Nitrate	2.4	2.5	96	0	90 - 110		12/08/2017	13:54	LB92306
	Sulfate	14.1	15	94	0	90 - 110		12/08/2017	13:54	LB92306



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92306

SDG No.: LB92306

Contract: _____ Lab Code: CHEM

Case No.: LB92306

SAS No.: LB92306

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
CCV5	Sulfate	14.9	15	99.3	0	90 - 110		12/21/2017	09:24	LB92306
CCV6	Bromide	9.3	10	93	0	90 - 110		12/21/2017	13:48	LB92306
	Chloride	2.8	3	93.3	0	90 - 110		12/21/2017	13:48	LB92306
	Fluoride	1.8	2	90	0	90 - 110		12/21/2017	13:48	LB92306
	Phosphorus, Ortho	6.2	5	124	0	90 - 110		12/21/2017	13:48	LB92306
	Nitrite	2.8	3	93.3	0	90 - 110		12/21/2017	13:48	LB92306
	Nitrate	2.3	2.5	92	0	90 - 110		12/21/2017	13:48	LB92306
	Sulfate	14.7	15	98	0	90 - 110		12/21/2017	13:48	LB92306



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92306

SDG No.: LB92306

Contract: **Lab Code:** CHEM

Case No.: LB92306

SAS No.: LB92306

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	LB92306
	Chloride	0.075	+/-0.15	U		0.15		12/08/2017	14:47	LB92306
	Fluoride	0.043	+/-0.1	U		0.1		12/08/2017	14:47	LB92306
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/08/2017	14:47	LB92306
	Nitrite	0.022	+/-0.15	U		0.15		12/08/2017	14:47	LB92306
	Nitrate	0.027	+/-0.13	U		0.13		12/08/2017	14:47	LB92306
	Sulfate	0.13	+/-0.75	U		0.75		12/08/2017	14:47	LB92306

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		12/20/2017	12:48	LB92306
	Chloride	0.075	+/-0.15	U		0.15		12/20/2017	12:48	LB92306
	Fluoride	0.043	+/-0.1	U		0.1		12/20/2017	12:48	LB92306
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/20/2017	12:48	LB92306
	Nitrite	0.022	+/-0.15	U		0.15		12/20/2017	12:48	LB92306
	Nitrate	0.027	+/-0.13	U		0.13		12/20/2017	12:48	LB92306
	Sulfate	0.13	+/-0.75	U		0.75		12/20/2017	12:48	LB92306
CCB2	Bromide	0.066	+/-0.5	U		0.5		12/20/2017	18:49	LB92306
	Chloride	0.075	+/-0.15	U		0.15		12/20/2017	18:49	LB92306
	Fluoride	0.043	+/-0.1	U		0.1		12/20/2017	18:49	LB92306
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/20/2017	18:49	LB92306
	Nitrite	0.022	+/-0.15	U		0.15		12/20/2017	18:49	LB92306
	Nitrate	0.027	+/-0.13	U		0.13		12/20/2017	18:49	LB92306
	Sulfate	0.13	+/-0.75	U		0.75		12/20/2017	18:49	LB92306
CCB3	Bromide	0.066	+/-0.5	U		0.5		12/21/2017	00:48	LB92306
	Chloride	0.075	+/-0.15	U		0.15		12/21/2017	00:48	LB92306
	Fluoride	0.043	+/-0.1	U		0.1		12/21/2017	00:48	LB92306
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/21/2017	00:48	LB92306
	Nitrite	0.022	+/-0.15	U		0.15		12/21/2017	00:48	LB92306
	Nitrate	0.027	+/-0.13	U		0.13		12/21/2017	00:48	LB92306
	Sulfate	0.13	+/-0.75	U		0.75		12/21/2017	00:48	LB92306
CCB4	Bromide	0.066	+/-0.5	U		0.5		12/21/2017	02:48	LB92306
	Chloride	0.075	+/-0.15	U		0.15		12/21/2017	02:48	LB92306
	Fluoride	0.043	+/-0.1	U		0.1		12/21/2017	02:48	LB92306
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/21/2017	02:48	LB92306
	Nitrite	0.022	+/-0.15	U		0.15		12/21/2017	02:48	LB92306
	Nitrate	0.027	+/-0.13	U		0.13		12/21/2017	02:48	LB92306
	Sulfate	0.13	+/-0.75	U		0.75		12/21/2017	02:48	LB92306
CCB5	Bromide	0.066	+/-0.5	U		0.5		12/21/2017	10:09	LB92306
	Chloride	0.075	+/-0.15	U		0.15		12/21/2017	10:09	LB92306
	Fluoride	0.043	+/-0.1	U		0.1		12/21/2017	10:09	LB92306
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/21/2017	10:09	LB92306
	Nitrite	0.022	+/-0.15	U		0.15		12/21/2017	10:09	LB92306
	Nitrate	0.027	+/-0.13	U		0.13		12/21/2017	10:09	LB92306
	Sulfate	0.13	+/-0.75	U		0.75		12/21/2017	10:09	LB92306
CCB6	Bromide	0.066	+/-0.5	U		0.5		12/21/2017	14:19	LB92306
	Chloride	0.075	+/-0.15	U		0.15		12/21/2017	14:19	LB92306
	Fluoride	0.043	+/-0.1	U		0.1		12/21/2017	14:19	LB92306
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		12/21/2017	14:19	LB92306
	Nitrite	0.022	+/-0.15	U		0.15		12/21/2017	14:19	LB92306



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92306

SDG No.: LB92306

Contract:

Lab Code: CHEM

Case No.: LB92306

SAS No.: LB92306

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB6	Nitrate	0.027	+/-0.13	U		0.13		12/21/2017	14:19	LB92306
	Sulfate	0.13	+/-0.75	U		0.75		12/21/2017	14:19	LB92306



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB92306

SDG No.:

LB92306

Contract:

Lab Code:

CHEM

Case No.:

LB92306

SAS No.:

LB92306

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

Client: LB92306

SDG No.: LB92306

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
LB92306BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		12/20/2017	13:18	LB92306
	Chloride	0.075	<0.15	U		0.15		12/20/2017	13:18	LB92306
	Fluoride	0.043	<0.1	U		0.1		12/20/2017	13:18	LB92306
	Phosphorus, Ortho	0.01	<0.25	U		0.25		12/20/2017	13:18	LB92306
	Nitrite	0.022	<0.15	U		0.15		12/20/2017	13:18	LB92306
	Nitrate	0.027	<0.13	U		0.13		12/20/2017	13:18	LB92306
	Sulfate	0.13	<0.75	U		0.75		12/20/2017	13:18	LB92306
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB92306BLW2		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		12/21/2017	10:40	LB92306
	Chloride	0.075	<0.15	U		0.15		12/21/2017	10:40	LB92306
	Fluoride	0.043	<0.1	U		0.1		12/21/2017	10:40	LB92306
	Phosphorus, Ortho	0.01	<0.25	U		0.25		12/21/2017	10:40	LB92306
	Nitrite	0.022	<0.15	U		0.15		12/21/2017	10:40	LB92306
	Nitrate	0.027	<0.13	U		0.13		12/21/2017	10:40	LB92306
	Sulfate	0.13	<0.75	U		0.75		12/21/2017	10:40	LB92306



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92306 level: low sdg no.: LB92306
contract: lab code: CHEM case no.: LB92306 sas no.: LB92306
matrix: WATER sample id: I6991-08 client id: MW-31VMS
Percent Solids for Sample: 0 Spiked ID: I6991-08MS 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	10.5		0.066	U	10	105		
Chloride	mg/L	80 - 120	542	OR	616	OR	3	-2467	*	
Fluoride	mg/L	80 - 120	2.7		0.043	U	2	135	*	
Phosphorus, Ortho	mg/L	80 - 120	0	U	0.01	U	5			
Nitrite	mg/L	80 - 120	2.1		0.022	U	3	70	*	
Nitrate	mg/L	80 - 120	2.5		0.027	U	2.5	100		
Sulfate	mg/L	80 - 120	31.3		15.7		15	104		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92306 **Level:** LOW **SDG No.:** LB92306
Contract: **Lab Code:** CHEM **Case No.:** LB92306 **SAS No.:** LB92306
Matrix: WATER **Sample ID:** I6991-08 **Client ID:** MW-31VDUP
Percent Solids for Sample: 0 **Duplicate ID** I6991-08DUP **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	616	OR	602	OR	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	0.027	U	0	U			
Sulfate	mg/L	20	15.7		15.7		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92306

SDG No.: LB92306

Contract:

Lab Code: CHEM

Case No.: LB92306

SAS No.: LB92306

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92306BSW							
Bromide	mg/L	10	9.2		92	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	4.8		96	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	14.6		97.3	90 - 110	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92306

SDG No.: LB92306

Contract:

Lab Code: CHEM

Case No.: LB92306

SAS No.: LB92306

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92306BSW2							
Bromide	mg/L	10	9.3		93	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	6.2		124	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	14.1		94	90 - 110	
