

Analytical Summary ReportAnalysis Method: SM 4500-SO4EANALYST: AMANDEEPParameter: SulfateSUPERVISOR REVIEW BY: apatelRun Number: LB89417

Reagent/Standard	Lot/Log #
sulfate ICV 20ppm	WP57156
Sulfate LCS std, 20ppm	WP57157
sulfate 0.0ppm	WP57154
sulfate 5ppm	WP57146
sulfate 10ppm	WP57147
sulfate 20ppm	WP57149
sulfate 30ppm	WP57151
sulfate 40ppm	WP57153
sulfate CCV 20ppm	WP57155
Sulfate Buffer solution A	WP53730
Sulfate std, 15ppm	WP57148
Sulfate std, 35ppm	WP57152
Sulfate std, 25ppm	WP57150
BARIUM CHLORIDE DIHYDRATE ACS 100G	W2210

Intercept: -0.1975Slope: 2.9897Regression: 0.999884

Seq	Lab ID	True Val (mg/l)	DF	MATRIX	Initial Reading	Final Reading	Difference	AnalDate	Anal Time
1	CAL1	0	1	Water	0.180	0.290	0.110	08/11/2017	10:11
2	CAL2	5	1	Water	0.160	14.300	14.140	08/11/2017	10:18
3	CAL3	10	1	Water	0.156	30.200	30.044	08/11/2017	10:25
4	CAL4	15	1	Water	0.159	43.900	43.741	08/11/2017	10:36
5	CAL5	20	1	Water	0.178	60.900	60.722	08/11/2017	10:43
6	CAL6	25	1	Water	0.170	74.400	74.230	08/11/2017	10:48
7	CAL7	30	1	Water	0.179	89.900	89.721	08/11/2017	10:56
8	CAL8	35	1	Water	0.186	104.900	104.714	08/11/2017	11:05
9	CAL9	40	1	Water	0.154	119.100	118.946	08/11/2017	11:13



Analytical Summary Report

Analysis Method: SM 4500-SO4E

ANALYST: AMANDEEP

Parameter: Sulfate

SUPERVISOR REVIEW BY: apatel

Run Number: LB89417

Seq	Lab ID	Initial Weight	Final Vol	True Value	DF	MATRIX	Initial Reading	Final Reading	Difference	Result (mg/L)	AnalDate	Anal Time
1	ICV			20	1	Water	0.184	56.900	56.716	19.037	08/11/2017	11:19
2	ICB				1	Water	0.150	0.249	0.099	0.099	08/11/2017	11:25
3	CCV1			20	1	Water	0.175	59.900	59.725	20.043	08/11/2017	11:33
4	CCB1				1	Water	0.161	0.262	0.101	0.100	08/11/2017	11:40
5	LB89417BL	50	50		1	Water	0.150	0.256	0.106	0.102	08/11/2017	11:47
6	LB89417BS	50	50	20	1	Water	0.218	56.900	56.682	19.025	08/11/2017	11:55
7	I4665-01	50	50		1	Water	3.610	182.000	178.390	59.734	08/11/2017	12:03
8	I4665-02	50	50		1	Water	1.190	99.100	97.910	32.815	08/11/2017	12:10
9	CCV2			20	1	Water	0.199	58.900	58.701	19.700	08/11/2017	12:17
10	CCB2				1	Water	0.148	0.262	0.114	0.104	08/11/2017	12:24
11	I4665-03	50	50		1	Water	1.060	1.210	0.150	0.116	08/11/2017	12:30
12	I4665-04	50	50		1	Water	1.340	222.000	220.660	73.873	08/11/2017	12:37
13	I4665-05	50	50		1	Water	1.480	88.100	86.620	29.039	08/11/2017	12:45
14	I4665-06	50	50		1	Water	0.474	231.000	230.526	77.173	08/11/2017	12:52
15	CCV3			20	1	Water	0.161	58.600	58.439	19.613	08/11/2017	12:58
16	CCB3				1	Water	0.148	0.254	0.106	0.102	08/11/2017	13:06
17	I4665-07	50	50		1	Water	0.272	0.348	0.076	0.091	08/11/2017	13:15
18	I4665-08	50	50		1	Water	0.415	68.200	67.785	22.739	08/11/2017	13:23
19	I4665-09	50	50		1	Water	0.340	64.800	64.460	21.627	08/11/2017	13:30
20	I4665-10	50	50		1	Water	2.260	129.000	126.740	42.458	08/11/2017	13:38
21	CCV4			20	1	Water	0.158	59.700	59.542	19.982	08/11/2017	13:45
22	CCB4				1	Water	0.160	0.259	0.099	0.099	08/11/2017	13:58
23	I4665-11	50	50		1	Water	3.680	61.200	57.520	19.305	08/11/2017	14:05
24	I4665-11DUP	50	50		1	Water	3.650	61.400	57.750	19.382	08/11/2017	14:14
25	I4665-11MS	50	50	20	1	Water	3.700	110.000	106.300	35.621	08/11/2017	14:20
26	I4665-11MSD	50	50	20	1	Water	3.680	111.000	107.320	35.963	08/11/2017	14:28
27	CCV5			20	1	Water	0.159	59.400	59.241	19.881	08/11/2017	14:36
28	CCB5				1	Water	0.160	0.259	0.099	0.099	08/11/2017	14:48
29	I4665-25	50	50		1	Water	1.360	85.000	83.640	28.042	08/11/2017	14:55
30	I4665-26	50	50		1	Water	0.259	0.366	0.107	0.102	08/11/2017	15:02
31	I4665-27	50	50		1	Water	1.730	176.000	174.270	58.356	08/11/2017	15:08
32	I4665-28	50	50		1	Water	663.000	949.000	286.000	95.728	08/11/2017	15:15
33	CCV6			20	1	Water	0.175	59.400	59.225	19.876	08/11/2017	15:24
34	CCB6				1	Water	0.145	0.240	0.095	0.098	08/11/2017	15:30
35	I4665-29	50	50		1	Water	2.510	79.400	76.890	25.784	08/11/2017	15:36
36	I4665-30	50	50		1	Water	5.210	82.600	77.390	25.952	08/11/2017	15:45
37	I4665-31	50	50		1	Water	4.130	82.400	78.270	26.246	08/11/2017	15:54
38	I4665-32	50	50		1	Water	3.360	87.100	83.740	28.076	08/11/2017	16:00
39	I4665-01				2	Water	1.900	85.700	83.800	28.096	08/11/2017	16:08
40	I4665-04				2	Water	1.150	116.000	114.850	38.481	08/11/2017	16:17

41	I4665-06				2	Water	0.295	109.000	108.705	36.426	08/11/2017	16:24
42	I4665-10				2	Water	1.100	64.900	63.800	21.406	08/04/2017	16:30
43	I4665-27				2	Water	0.604	80.200	79.596	26.689	08/11/2017	16:37
44	I4665-28				5	Water	61.200	82.700	21.500	7.257	08/11/2017	16:44
45	CCV7			20	1	Water	0.138	59.600	59.462	19.955	08/11/2017	16:50
46	CCB7				1	Water	0.160	0.250	0.090	0.096	08/11/2017	16:58

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WORKLIST(Hardcopy Internal Chain)

WorkList Name : SO4081117

WorkList ID : 101749

Date : 8/11/2017 7:55:07 AM

Due Date	Matrix	Sample	Test	Preservative	Customer	Storage Location	Customer Sample	Collect Date	Method
	Water	I4665-01	Sulfate	Cool 4 deg C	WEST04	L41	MW9-054-1	08/07/2017	SM 4500-SO4E
	Water	I4665-02	Sulfate	Cool 4 deg C	WEST04	L41	MW1-054-1	08/07/2017	SM 4500-SO4E
	Water	I4665-03	Sulfate	Cool 4 deg C	WEST04	L41	MW4D-054-1	08/07/2017	SM 4500-SO4E
	Water	I4665-04	Sulfate	Cool 4 deg C	WEST04	L41	MW4S-054-1	08/07/2017	SM 4500-SO4E
	Water	I4665-05	Sulfate	Cool 4 deg C	WEST04	L41	MW11M-054-1	08/07/2017	SM 4500-SO4E
	Water	I4665-06	Sulfate	Cool 4 deg C	WEST04	L41	MW11D-054-1	08/07/2017	SM 4500-SO4E
	Water	I4665-32	Sulfate	Cool 4 deg C	WEST04	L41	MW8M-054-2	08/08/2017	SM 4500-SO4E
	Water	I4665-26	Sulfate	Cool 4 deg C	WEST04	L41	MW6-054-3	08/08/2017	SM 4500-SO4E
	Water	I4665-27	Sulfate	Cool 4 deg C	WEST04	L41	MW6-054-1	08/08/2017	SM 4500-SO4E
	Water	I4665-28	Sulfate	Cool 4 deg C	WEST04	L41	MWP2-054-1	08/08/2017	SM 4500-SO4E
	Water	I4665-29	Sulfate	Cool 4 deg C	WEST04	L41	MWP4-054-1	08/08/2017	SM 4500-SO4E
	Water	I4665-30	Sulfate	Cool 4 deg C	WEST04	L41	MW8D-054-1	08/08/2017	SM 4500-SO4E
	Water	I4665-31	Sulfate	Cool 4 deg C	WEST04	L41	MW8M-054-1	08/08/2017	SM 4500-SO4E
	Water	I4665-07	Sulfate	Cool 4 deg C	WEST04	L41	MW2S-054-3	08/07/2017	SM 4500-SO4E
	Water	I4665-08	Sulfate	Cool 4 deg C	WEST04	L41	MW10M-054-1	08/07/2017	SM 4500-SO4E
	Water	I4665-09	Sulfate	Cool 4 deg C	WEST04	L41	MW10M-054-2	08/07/2017	SM 4500-SO4E
	Water	I4665-10	Sulfate	Cool 4 deg C	WEST04	L41	MW10D-054-1	08/07/2017	SM 4500-SO4E
	Water	I4665-11	Sulfate	Cool 4 deg C	WEST04	L41	MW2S-054-1	08/07/2017	SM 4500-SO4E
	Water	I4665-25	Sulfate	Cool 4 deg C	WEST04	L41	MW4M-054-1	08/08/2017	SM 4500-SO4E

8/11/17 9:45

8/11/17 18:30

Date/Time

Received by: ALK

ALK

Relinquished by: OP

Received by:

Relinquished by: ALK