

Supplementary Materials

Supplementary Tables:

Table S1: Calculated Saturation Indices of the Analyzed Samples (2015, 2017, 2018, 2019).

Sample	Gypsum	Halite	Calcite	Dolomite
2019 Campaign				
1	-1.31	-3.44	0.35	1.67
2	-1.71	-5.66	0.54	0.98
3	-1.54	-4.83	0.36	1.07
4	-1.89	-6.58	0.31	0.50
5	-1.50	-6.49	0.88	1.40
6	-1.53	-5.66	0.97	1.94
7	-1.53	-5.59	1.26	2.17
8	-1.89	-5.99	0.74	1.11
9	-1.40	-5.00	0.43	1.15
10	-1.90	-5.87	1.22	2.03
11	-1.53	-4.92	0.93	2.00
12	-1.60	-5.92	1.00	1.53
13	-1.74	-5.96	0.83	2.04
14	-1.65	-5.70	0.87	2.15
15	-0.99	-6.14	0.89	1.66
16	-1.53	-5.43	0.58	1.33
17	-1.71	-5.31	0.78	1.67
18	-1.61	-5.50	0.58	1.13
19	-1.55	-5.61	0.45	0.86
20	-1.66	-5.43	0.87	1.78
21	-1.50	-4.42	0.07	0.53
22	-1.05	-6.11	0.54	1.08
23	-1.65	-6.15	1.08	1.81
24	-1.54	-5.72	0.38	1.27
25	-1.21	-5.53	0.88	1.67
26	-1.38	-5.63	0.98	1.78
27	-2.00	-5.10	0.61	1.86
28	-2.04	-5.52	0.70	1.63
29	-1.53	-5.42	0.94	1.77
30	-1.82	-4.72	0.90	1.77
31	-1.86	-5.90	0.60	1.50
32	-1.60	-5.38	1.09	2.03
33	-1.82	-5.05	1.55	3.24
2018 Campaign				
34	-1.09	-4.04	1.03	2.22
35	-1.68	-6.07	0.57	0.82
36	-1.13	-4.87	0.41	0.61
37	-2.28	-6.70	0.43	0.54
38	-2.29	-6.24	0.32	0.91
39	-1.49	-5.74	0.29	0.75
40	-2.07	-5.67	1.05	2.14
41	-1.89	-5.55	0.81	1.51
42	-2.81	-6.02	0.47	0.58
43	-1.67	-5.12	0.27	0.77
44	-1.51	-5.84	0.24	0.62

45	-2.56	-5.03	0.63	1.19
46	-1.59	-5.88	0.49	1.18
47	-1.57	-5.72	0.36	0.91
48	-1.63	-5.92	0.36	0.98
49	-1.48	-5.93	0.25	0.61
50	-1.85	-6.25	0.46	1.19
51	-1.43	-5.46	0.80	1.51
52	-1.45	-5.31	0.48	0.93
53	-1.22	-5.11	0.42	0.71
54	-1.83	-5.85	0.62	1.15
55	-1.78	-5.45	0.26	0.63
56	-0.82	-4.48	1.07	1.94
57	-1.51	-5.76	0.70	1.44
58	-1.51	-5.28	0.04	0.39
2017 Campaign				
59	-1.13	-4.05	0.64	1.34
60	-2.31	-6.22	0.21	0.39
61	-1.25	-5.03	0.49	0.95
62	-2.40	-6.38	0.58	1.09
63	-2.33	-6.43	0.36	0.64
64	-1.48	-5.69	0.49	1.07
65	-1.71	-5.45	0.84	1.77
66	-1.62	-5.86	0.61	1.46
67	-2.50	-5.70	0.46	0.85
68	-1.77	-5.14	0.45	1.18
69	-1.60	-5.7	0.51	1.39
70	-1.98	-4.93	0.67	1.43
71	-1.55	-5.70	0.35	0.88
72	-1.96	-6.04	0.56	1.32
73	-1.58	-5.87	0.60	1.10
74	-1.86	-5.52	1.02	1.98
75	-1.61	-5.38	0.71	1.57
76	-1.48	-5.44	0.44	0.99
77	-1.88	-5.45	0.39	0.84
78	-2.05	-5.32	0.13	0.55
79	-1.62	-5.62	1.24	2.75
80	-2.03	-5.65	0.63	1.50
81	-1.48	-5.13	0.53	1.01
82	-1.51	-5.24	0.56	1.15
83	-1.70	-5.70	0.38	0.96
84	-1.76	-5.68	0.12	0.47
85	-1.56	-5.26	0.69	1.37
86	-1.58	-5.99	0.93	1.86
87	-1.71	-6.03	0.18	0.45
2015 Campaign				
88	-1.45	-5.10	0.93	2.14
89	-1.37	-5.71	-0.54	-1.09
90	-2.31	-7.47	-0.06	-0.31
91	-2.11	-7.01	-0.13	-0.15
92	-1.46	-6.05	0.71	1.68
93	-2.23	-6.04	0.87	1.98
94	-1.63	-6.01	0.95	1.67
95	-2.70	-6.23	0.96	1.74

34	8.4	17.6	9744	304.6	238.2	1464.4	66.5	140.3	3158.8	321.8	130.2	0
35	7.8	19.8	1557	100.2	25.5	133.3	11.7	250.1	251.7	76.9	6.2	1
36	7.4	23.3	4933	348.7	99.7	462.1	23.5	164.7	1357.8	172.9	12.4	2
37	7.8	22.2	916	62.1	14.6	75.9	3.9	231.8	99.3	24.0	31.0	1
38	7.6	23.3	1082	68.1	59.5	80.5	0.0	286.7	283.6	28.8	31.0	-8
39	7.5	22.7	2187	96.2	69.3	179.3	3.9	280.6	425.4	158.5	0.0	-4
40	8.0	26.3	2716	150.3	70.5	167.8	11.7	305.0	542.4	28.8	0.0	0
41	7.7	20.3	2163	112.2	45.0	236.8	23.5	549.0	496.3	52.8	12.4	-9
42	7.5	21.2	1602	122.2	26.7	119.5	7.8	305.0	319.1	4.8	0.0	-1
43	7.4	23.1	3482	90.2	70.5	429.9	7.8	396.5	765.8	129.7	68.2	-4
44	7.5	22.0	1957	90.2	60.8	167.8	3.9	268.4	351.0	153.7	6.2	-2
45	7.7	21.9	3608	168.3	69.3	413.8	27.4	250.1	1003.3	9.6	6.2	0
46	7.9	25.2	1960	92.2	65.6	140.2	11.7	164.7	390.0	124.9	0.0	0
47	7.5	21.3	1900	94.2	70.5	179.3	3.9	359.9	439.6	134.5	6.2	-7
48	7.5	22.1	1773	90.2	80.2	128.7	0.0	353.8	382.9	120.1	18.6	-7
49	7.3	21.7	2176	120.2	76.6	128.7	3.9	335.5	375.8	134.5	37.2	-4
50	7.8	22.1	1258	58.1	52.3	119.5	3.9	317.2	184.4	91.3	24.8	-1
51	7.9	20.5	2731	180.4	76.6	220.7	3.9	225.7	663.0	115.3	68.2	-2
52	7.6	23.2	3034	178.3	77.8	280.5	3.9	201.3	769.3	115.3	0.0	0
53	7.4	20.7	3408	228.4	83.9	432.2	19.5	262.3	797.7	177.7	396.8	1
54	8.1	20.7	1842	70.1	29.2	181.6	7.8	201.3	308.4	76.9	93.0	-4
55	7.2	23.6	2794	148.3	87.5	246.0	7.8	347.7	627.5	62.4	18.6	1
56	8.1	21.3	6716	364.7	114.2	829.9	31.3	189.1	1928.6	408.3	37.2	-2
57	8.2	20.7	1896	78.2	43.7	186.2	7.8	189.1	379.3	163.3	0.0	-4
58	8.7	25.8	2965	96.2	85.1	319.6	7.8	12.2	716.1	172.9	31.0	3
2017 Campaign [17]												
59	7.6	18.9	7555	344.7	205.1	1430.9	69.0	268.5	3138.2	257.2	75.1	-1
60	7.5	18.9	724	60.9	31.1	115.0	15.5	341.7	198.8	26.1	6.8	-4
61	7.3	22.9	4226	368.7	161.4	292.0	12.2	244.1	1519.4	134.3	16.5	-6
62	7.8	22.9	762	83.4	33.0	95.0	4.4	262.4	170.4	16.2	31.0	6
63	7.7	23.4	926	83.4	33.0	85.0	4.7	189.1	170.4	18.7	61.1	7
64	7.7	20.7	1552	96.2	60.3	185.1	7.9	305.1	454.4	161.3	10.3	-8
65	7.6	25.0	2550	211.6	114.7	198.0	17.8	384.4	795.2	60.5	11.8	-2
66	7.7	22.4	1558	96.2	79.7	140.3	5.9	378.3	411.8	119.5	23.8	-8
67	7.5	21.2	1453	123.4	53.5	178.6	11.9	317.3	454.4	11.3	6.0	1
68	7.5	22.9	3173	91.4	82.6	402.5	13.7	475.9	794.0	104.8	63.3	-7
69	7.8	21.6	1757	78.6	90.4	169.3	8.2	311.2	497.0	156.4	17.5	-9
70	7.7	22.2	3066	131.5	75.8	482.6	14.1	366.1	1093.4	48.2	11.8	-5
71	7.5	22.4	1836	91.4	67.1	179.1	9.2	347.8	460.4	146.6	9.5	-9
72	8	21.5	1151	44.9	35.0	153.6	8.1	333.2	234.0	87.5	9.9	-8
73	7.6	21.2	1298	136.3	53.5	155.2	13.6	329.5	355.0	87.5	20.8	2
74	7.9	20.2	1859	117.0	51.5	245.4	74.5	567.4	511.2	58.0	16.4	-5
75	7.8	22.0	2333	192.4	128.3	217.0	9.1	219.7	837.8	82.6	37.1	0
76	7.5	23.9	2442	139.5	80.7	240.0	8.5	286.8	653.2	131.8	35.2	-4
77	7.3	23.0	2049	113.8	61.2	291.4	10.0	482.0	525.4	58.0	81.3	-3
78	7.1	23.0	2429	118.6	106.9	260.7	10.7	427.1	809.4	43.3	28.2	-8
79	9	26.4	1966	83.4	66.1	178.2	7.1	115.9	568.0	136.7	15.6	-9
80	8	20.9	1772	72.1	61.2	185.4	10.2	268.5	497.0	55.6	54.0	-9
81	7.4	21.4	2913	176.4	77.8	438.9	19.8	402.7	738.4	114.6	126.5	4
82	7.6	23.1	2866	208.4	105.0	243.6	11.4	219.7	1050.8	97.4	11.9	-8
83	7.4	21.7	1935	110.6	86.5	178.6	6.5	396.6	472.2	90.0	37.1	-4
84	7.2	24.2	2023	113.8	88.5	166.1	7.0	305.1	539.6	77.7	48.5	-5
85	7.7	23.1	2835	149.1	69.0	298.4	12.2	311.2	795.2	104.8	87.6	-8
86	8.4	21.0	955	78.6	39.9	169.1	7.3	195.3	241.4	129.3	3.2	7
87	7.4	20.1	1110	83.4	52.5	120.0	5.9	317.3	312.4	94.9	8.5	-8
2015 Campaign [11]												
88	7.8	21.5	5210	205.8	191.1	298.8	171.5	398.8	1227.9	140.1	130.5	-3
89	7.8	22.9	2970	190.2	88.4	142.7	107.4	11.3	584.7	127.4	237.5	5
90	7.6	22.2	626	56.6	17.9	27.3	11.1	120.7	45.9	22.2	65.0	9
91	8	23.3	965	66.1	39.5	37.8	11.0	38.0	98.9	36.2	176.2	9
92	7.9	22.3	2210	93.8	80.6	110.1	104.0	320.3	337.2	180.3	6.8	0
93	7.8	25.0	2290	100.8	76.1	85.8	96.3	478.9	449.0	28.1	0.7	-9
94	8	21.0	2118	123	36.3	123.2	169.6	331.1	325.7	82.5	0.0	7
95	8	21.1	1650	133.6	44.2	69.4	59.2	291.0	337.9	6.1	0.0	1
96	7.9	22.8	3250	47.5	65.0	253.9	110.3	417.2	543.5	121.0	80.5	-9
97	7.8	22.3	2150	94.5	50.4	131.4	106.3	276.2	426.1	100.6	0.0	-4

98	7.8	24.8	1924	101.8	105.9	70.9	64.2	256.6	342.1	123.2	0.0	6
99	7.8	21.3	1720	84.8	87.7	81.3	52.8	164.6	263.1	185.8	5.6	7
100	7.8	23.7	1715	88.9	90.6	68.0	54.7	289.3	220.0	147.8	13.8	7
101	7.8	21.8	1795	87.8	87.2	94.7	56.3	218.6	262.9	146.4	31.1	8
102	8.2	21.9	1348	44.9	38.7	95.2	61.2	284.0	143.8	109.1	10.5	0
103	7.9	24.2	2520	165.5	100.8	107.9	86.8	158.0	517.8	124.2	62.2	6
104	7.6	21.2	2270	122.7	62.4	125.6	105.9	280.1	316.6	93.2	140.6	5
105	7.5	25.0	3850	284.4	127.2	119.0	97.3	563.7	830.4	69.3	59.2	-4
106	7.8	21.4	3090	131.0	91.1	165.0	99.3	475.1	630.4	109.3	33.8	-9
107	7.9	24.5	2980	119.9	62.3	190.2	102.9	279.8	541.3	125.7	179.9	-7
108	8.1	22.2	2010	130.7	88.5	79.0	112.3	189.4	228.6	341.2	0.0	9
109	7.8	20.9	1716	97.9	84.3	71.2	55.8	214.5	259.8	152.8	7.5	7
110	7.5	22.9	4260	276.8	91.5	185.6	217.0	464.2	926.6	133.6	20.4	-3
111	7.8	21.8	7840	391.2	189.9	461.0	226.8	200.2	1912.7	466.7	151.6	-7
112	7.5	20.6	3540	198.5	85.1	168.1	115.0	458.6	696.7	160.8	70.6	-8
113	7.8	27.5	2260	80.8	69.0	130.4	117.3	326.1	363.2	173.7	0.0	-2