

Water-Data Report 2007

411403112200801 BEAR RIVER BAY OUTFLOW AT GREAT SALT LAKE MINERALS CORP. BRIDGE

Great Salt Lake Basin
Great Salt Lake Subbasin

LOCATION.--Lat 41°16'17", long 112°21'22" referenced to North American Datum of 1983, Weber County, UT, Hydrologic Unit 16020310, at Great Salt Lake Minerals Company bridge, about 2.5 mi north of the Union Pacific Railroad causeway bridge over Bear River Bay.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 2005 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter.

REMARKS.--Records fair. Partial water year record. Flow between Bear River Bay and Great Salt Lake is mainly controlled by the water surface elevation of Great Salt Lake (GSL) near the bridge. Wind also controls discharge between the two bodies of water. Under calm conditions flow generally occurs from Bear River Bay to GSL. Depending upon the wind direction flow can increase into GSL, or reverse which is represented by negative discharges.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 12,100 ft³/s, May 12, 13, 2005; minimum daily discharge, -1,750 ft³/s, Apr 17, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,000 ft³/s, Apr 23; minimum daily discharge, -1,750 ft³/s, Apr 17.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	332	-85	-68	---	---
2	---	---	---	---	---	---	---	-671	41	-58	---	---
3	---	---	---	---	---	---	---	2,120	175	-23	---	---
4	---	---	---	---	---	---	---	2,150	-7.5	53	---	---
5	---	---	---	---	---	---	---	1,630	62	119	---	---
6	---	---	---	---	---	---	---	-791	397	---	---	---
7	---	---	---	---	---	---	---	-500	-16	---	---	---
8	---	---	---	---	---	---	---	533	-7.4	---	---	---
9	---	---	---	---	---	---	---	465	25	---	---	---
10	---	---	---	---	---	---	---	342	282	---	---	---
11	---	---	---	---	---	---	---	1,120	405	---	---	---
12	---	---	---	---	---	---	---	-356	-0.83	---	---	---
13	---	---	---	---	---	---	---	1,390	-0.07	---	---	---
14	---	---	---	---	---	---	---	596	71	---	---	---
15	---	---	---	---	---	---	---	174	25	---	---	---
16	---	---	---	---	---	---	---	-37	20	---	---	---
17	---	---	---	---	---	---	---	-1,750	-758	101	---	---
18	---	---	---	---	---	---	---	1,460	374	-20	---	---
19	---	---	---	---	---	---	---	1,250	389	-7.3	---	---
20	---	---	---	---	---	---	---	1,890	551	-36	---	---
21	---	---	---	---	---	---	---	1,280	1,330	33	---	---
22	---	---	---	---	---	---	---	1,340	-409	-40	---	---
23	---	---	---	---	---	---	---	3,000	-210	-27	---	---
24	---	---	---	---	---	---	---	1,080	-1,050	25	---	---
25	---	---	---	---	---	---	---	1,320	280	53	---	---
26	---	---	---	---	---	---	---	1,750	216	39	---	---
27	---	---	---	---	---	---	---	458	-182	15	---	---
28	---	---	---	---	---	---	---	535	1,470	1.4	---	---
29	---	---	---	---	---	---	---	446	-300	22	---	---
30	---	---	---	---	---	---	---	509	-408	-45	---	---
31	---	---	---	---	---	---	---	---	-319	---	---	---
Total	---	---	---	---	---	---	---	9,471	1,500.30	---	---	---
Mean	---	---	---	---	---	---	---	306	50.0	---	---	---
Max	---	---	---	---	---	---	---	2,150	405	---	---	---
Min	---	---	---	---	---	---	---	-1,050	-85	---	---	---
Ac-ft	---	---	---	---	---	---	---	18,790	2,980	---	---	---