



Water-Data Report UT-2005

10010000 GREAT SALT LAKE AT STATE PARK SALTAIR BOAT HARBOR, UT

Great Salt Lake Basin

LOCATION.--Lat 40°43'53", long 112°12'46" referenced to North American Datum of 1927, in NE ¼ SW ¼ NW ¼ sec.17, T.1 S., R.3 W., Salt Lake County, Hydrologic Unit 16020310, at State Park Saltair Beach Boat Harbor on southeast shore of lake, 17.1 mi west of Salt Lake City. (Gage temporarily located 0.4 mi to the southeast, from April 1984 to May 30, 1985, because of problems associated with highwater, then relocated 0.1 mi to the northeast from May 30, 1985 to August 9, 1989 because of highway construction. Gage relocated to boat harbor marina on August 9, 1989).

WATER-STAGE RECORDS

REVISED RECORDS.--WSP 1314: 1877. WDR-UT-74-1: 1967-73. WDR-UT-83-1: 1981-82. WDR-UT-95-1: 1984-94. WDR-UT-2001-1: 1984-2000.

PERIOD OF RECORD.--September 1875 to December 1899, October 1902 to current year. Records for October 1902 to September 1912 and diagram showing fluctuations of lake from 1851-1950, published in WSP 1314.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum at gage since September 15, 1970 is 4,186.80 ft above NGVD of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft and April 15, 1967 to September 15, 1970, at datum 4,186.85 ft. Prior to October 1938, staff gages at sites and datums as follows: September 1875 to October 1877 at Black Rock at 4,208.4 ft above NGVD of 1929, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft above NGVD of 1929, November 1879 to April 1881 near Black Rock at 4,203.1 ft above NGVD of 1929, April 1881 to December 1899 at Garfield Landing at 4,198.5 ft above NGVD OF 1929, October 1902 to July 1903, at Midlake on Lucin cutoff of Southern Pacific Railroad, 30 mi west of Ogden, at 4,197.9 ft above NGVD of 1929, and July 1903 to October 1938 at Saltair at 4,196.9 ft above NGVD of 1929. Datums since September 15, 1970, from levels run to USGS/National Geodetic Survey Benchmarks C-174 (1970) and E-174 (1970).

REMARKS.--Wind effects may cause substantial changes in hourly elevations, which are shown in the published mean daily elevations after October 1989.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,211.60 ft, Jun 3, 1986, Apr 1, 15, 1987; minimum, 4,191.35 ft, Oct 15, Nov 1, 1963. Maximum elevation prior to Jun 3, 1986, 4,211.6 ft in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

| Date | Temperature Water (Deg C) | Specific Gravity | Percent Salinity |
|--------------|---------------------------|------------------|------------------|
| Mar 5, 2005 | 11.0 | 1.110 | 15.7 |
| Apr 21, 2005 | 10.5 | 1.112 | 16.0 |

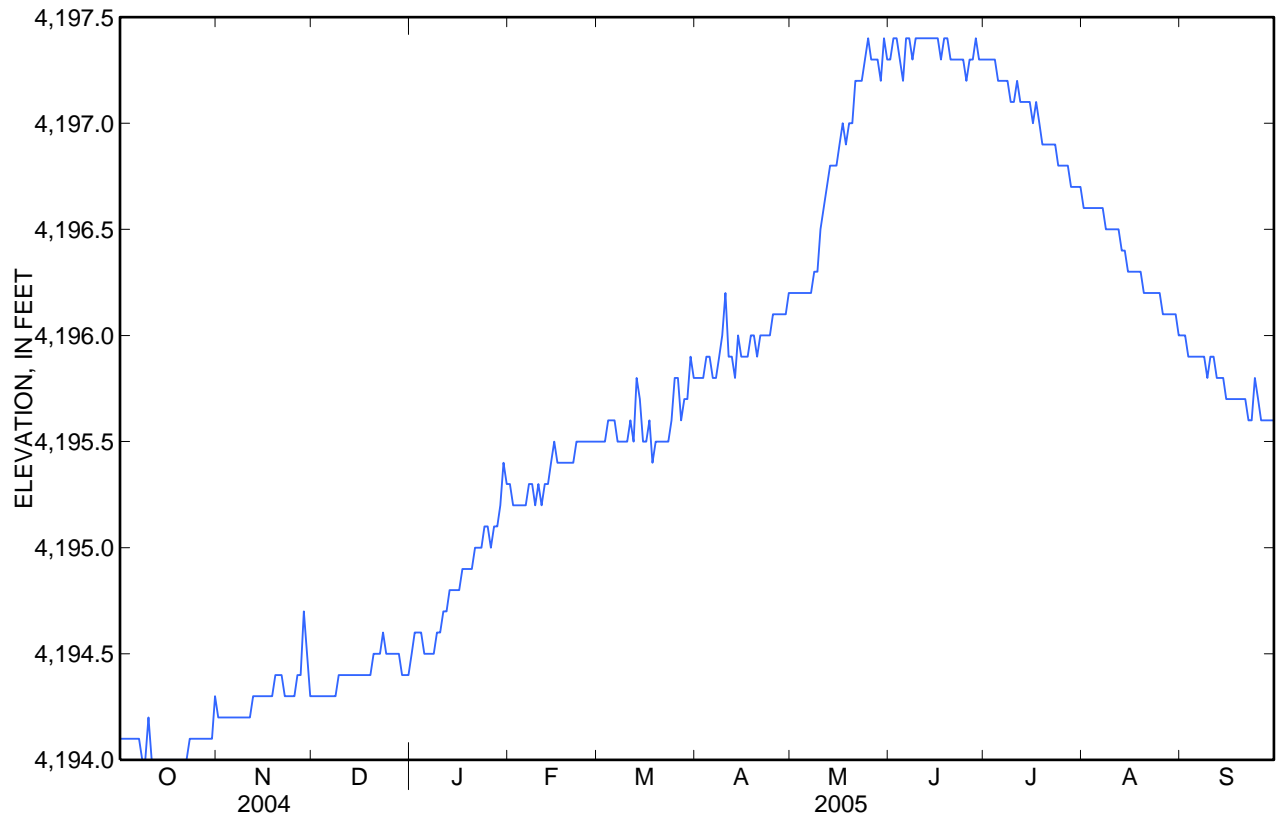
10010000 GREAT SALT LAKE AT STATE PARK SALTAIR BEACH BOAT HARBOR, UT—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|----------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 4,194.1 | 4,194.2 | 4,194.3 | 4,194.5 | 4,195.3 | 4,195.5 | 4,195.8 | 4,196.2 | 4,197.3 | 4,197.3 | 4,196.6 | 4,196.0 |
| 2 | 4,194.1 | 4,194.2 | 4,194.3 | 4,194.6 | 4,195.2 | 4,195.5 | 4,195.8 | 4,196.2 | 4,197.4 | 4,197.3 | 4,196.6 | 4,196.0 |
| 3 | 4,194.1 | 4,194.2 | 4,194.3 | 4,194.6 | 4,195.2 | 4,195.5 | 4,195.8 | 4,196.2 | 4,197.4 | 4,197.3 | 4,196.6 | 4,195.9 |
| 4 | 4,194.1 | 4,194.2 | 4,194.3 | 4,194.6 | 4,195.2 | 4,195.6 | 4,195.9 | 4,196.2 | 4,197.3 | 4,197.3 | 4,196.6 | 4,195.9 |
| 5 | e4,194.1 | 4,194.2 | 4,194.3 | e4,194.5 | 4,195.2 | 4,195.6 | 4,195.9 | 4,196.2 | 4,197.2 | 4,197.2 | 4,196.6 | 4,195.9 |
| 6 | e4,194.1 | 4,194.2 | 4,194.3 | e4,194.5 | 4,195.2 | 4,195.6 | 4,195.8 | 4,196.2 | 4,197.4 | 4,197.2 | 4,196.6 | 4,195.9 |
| 7 | e4,194.1 | 4,194.2 | 4,194.3 | e4,194.5 | 4,195.3 | 4,195.5 | 4,195.8 | 4,196.2 | 4,197.4 | 4,197.2 | 4,196.6 | 4,195.9 |
| 8 | e4,194.0 | 4,194.2 | 4,194.3 | e4,194.5 | 4,195.3 | 4,195.5 | 4,195.9 | 4,196.3 | 4,197.3 | 4,197.2 | 4,196.5 | 4,195.9 |
| 9 | e4,194.0 | 4,194.2 | 4,194.4 | e4,194.6 | 4,195.2 | 4,195.5 | 4,196.0 | 4,196.3 | 4,197.4 | 4,197.1 | 4,196.5 | 4,195.8 |
| 10 | e4,194.2 | 4,194.2 | 4,194.4 | e4,194.6 | 4,195.3 | 4,195.5 | 4,196.2 | 4,196.5 | 4,197.4 | 4,197.1 | 4,196.5 | 4,195.9 |
| 11 | e4,194.0 | 4,194.2 | 4,194.4 | e4,194.7 | 4,195.2 | 4,195.6 | 4,195.9 | 4,196.6 | 4,197.4 | 4,197.2 | 4,196.5 | 4,195.9 |
| 12 | e4,194.0 | 4,194.3 | 4,194.4 | e4,194.7 | 4,195.3 | 4,195.5 | 4,195.9 | 4,196.7 | 4,197.4 | 4,197.1 | 4,196.5 | 4,195.8 |
| 13 | e4,194.0 | 4,194.3 | 4,194.4 | e4,194.8 | 4,195.3 | 4,195.8 | 4,195.8 | 4,196.8 | 4,197.4 | 4,197.1 | 4,196.4 | 4,195.8 |
| 14 | e4,194.0 | 4,194.3 | 4,194.4 | e4,194.8 | 4,195.4 | 4,195.7 | 4,196.0 | 4,196.8 | 4,197.4 | 4,197.1 | 4,196.4 | 4,195.8 |
| 15 | e4,194.0 | 4,194.3 | 4,194.4 | e4,194.8 | 4,195.5 | 4,195.5 | 4,195.9 | 4,196.8 | 4,197.4 | 4,197.1 | 4,196.3 | 4,195.7 |
| 16 | e4,194.0 | 4,194.3 | 4,194.4 | e4,194.8 | 4,195.4 | 4,195.5 | 4,195.9 | 4,196.9 | 4,197.4 | 4,197.0 | 4,196.3 | 4,195.7 |
| 17 | e4,194.0 | 4,194.3 | 4,194.4 | e4,194.9 | 4,195.4 | 4,195.6 | 4,195.9 | 4,197.0 | 4,197.3 | 4,197.1 | 4,196.3 | 4,195.7 |
| 18 | e4,194.0 | 4,194.3 | 4,194.4 | e4,194.9 | 4,195.4 | 4,195.4 | 4,196.0 | 4,196.9 | 4,197.4 | 4,197.0 | 4,196.3 | 4,195.7 |
| 19 | e4,194.0 | 4,194.4 | 4,194.4 | e4,194.9 | 4,195.4 | 4,195.5 | 4,196.0 | 4,197.0 | 4,197.4 | 4,196.9 | 4,196.3 | 4,195.7 |
| 20 | e4,194.0 | 4,194.4 | 4,194.5 | e4,194.9 | 4,195.4 | 4,195.5 | 4,195.9 | 4,197.0 | 4,197.3 | 4,196.9 | 4,196.2 | 4,195.7 |
| 21 | e4,194.0 | 4,194.4 | 4,194.5 | e4,195.0 | 4,195.4 | 4,195.5 | 4,196.0 | 4,197.2 | 4,197.3 | 4,196.9 | 4,196.2 | 4,195.7 |
| 22 | e4,194.0 | 4,194.3 | 4,194.5 | e4,195.0 | 4,195.5 | 4,195.5 | 4,196.0 | 4,197.2 | 4,197.3 | 4,196.9 | 4,196.2 | 4,195.6 |
| 23 | e4,194.1 | 4,194.3 | 4,194.6 | e4,195.0 | 4,195.5 | 4,195.5 | 4,196.0 | 4,197.2 | 4,197.3 | 4,196.9 | 4,196.2 | 4,195.6 |
| 24 | e4,194.1 | 4,194.3 | 4,194.5 | e4,195.1 | 4,195.5 | 4,195.6 | 4,196.0 | 4,197.3 | 4,197.3 | 4,196.8 | 4,196.2 | 4,195.8 |
| 25 | e4,194.1 | 4,194.3 | 4,194.5 | 4,195.1 | 4,195.5 | 4,195.8 | 4,196.1 | 4,197.4 | 4,197.2 | 4,196.8 | 4,196.2 | 4,195.7 |
| 26 | e4,194.1 | 4,194.4 | 4,194.5 | 4,195.0 | 4,195.5 | 4,195.8 | 4,196.1 | 4,197.3 | 4,197.3 | 4,196.8 | 4,196.1 | 4,195.6 |
| 27 | e4,194.1 | 4,194.4 | 4,194.5 | 4,195.1 | 4,195.5 | 4,195.6 | 4,196.1 | 4,197.3 | 4,197.3 | 4,196.8 | 4,196.1 | 4,195.6 |
| 28 | 4,194.1 | 4,194.7 | 4,194.5 | 4,195.1 | 4,195.5 | 4,195.7 | 4,196.1 | 4,197.3 | 4,197.4 | 4,196.7 | 4,196.1 | 4,195.6 |
| 29 | 4,194.1 | 4,194.5 | 4,194.4 | 4,195.2 | --- | 4,195.7 | 4,196.1 | 4,197.2 | 4,197.3 | 4,196.7 | 4,196.1 | 4,195.6 |
| 30 | 4,194.1 | 4,194.3 | 4,194.4 | 4,195.4 | --- | 4,195.9 | 4,196.2 | 4,197.4 | 4,197.3 | 4,196.7 | 4,196.1 | 4,195.6 |
| 31 | 4,194.3 | --- | 4,194.4 | 4,195.3 | --- | 4,195.8 | --- | 4,197.3 | --- | 4,196.7 | 4,196.0 | --- |
| Mean | 4,194.1 | 4,194.3 | 4,194.4 | 4,194.8 | 4,195.4 | 4,195.6 | 4,196.0 | 4,196.8 | 4,197.3 | 4,197.0 | 4,196.3 | 4,195.8 |
| Max | 4,194.3 | 4,194.7 | 4,194.6 | 4,195.4 | 4,195.5 | 4,195.9 | 4,196.2 | 4,197.4 | 4,197.4 | 4,197.3 | 4,196.6 | 4,196.0 |
| Min | 4,194.0 | 4,194.2 | 4,194.3 | 4,194.5 | 4,195.2 | 4,195.4 | 4,195.8 | 4,196.2 | 4,197.2 | 4,196.7 | 4,196.0 | 4,195.6 |

10010000 GREAT SALT LAKE AT STATE PARK SALTAIR BEACH BOAT HARBOR, UT —Continued





Water-Data Report UT-2005

10010100 GREAT SALT LAKE NEAR SALINE, UT

Great Salt Lake Basin

LOCATION.--Lat 41°15'19", long 112°29'46" referenced to North American Datum of 1927, in NE ¼ NE ¼ NW ¼ sec.14, T.6 N., R.6 W., Box Elder County, Hydrologic Unit 16020310, 3.4 mi northwest of Saline at the Little Valley boat harbor, 30 mi west of Ogden and 27 mi south of Promontory.

WATER-STAGE RECORDS

REVISED RECORDS.--WDR UT-75-1: 1966-75. WDR UT-83-1: 1966-82. WDR UT-96-1: 1990-95. WDR UT-2001-1: 1966-2000. 1966-2000.

PERIOD OF RECORD.--April 1966 to current year.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage since August 1, 1996 is 4,186.95 ft above NGVD of 1929. April 1966 to August 1, 1996 at datum 4,190.05 ft above NGVD of 1929. Both datums from levels run to USGS Benchmarks 72-77 FMK 1966.

REMARKS.--Wind effects may cause substantial changes in hourly elevations, which are shown in the published daily mean elevations after October 1989. Samples for specific gravity and temperature were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,211.20 ft, Apr 7-29, 1987; minimum, 4,192.90 ft, Oct 15, Nov 1, 1966.

| Date | Temperature Water (Deg C) | Specific Gravity | Percent Salinity |
|--------------|---------------------------|------------------|------------------|
| Oct 21, 2004 | 13.0 | 1.199 | 26.3 |
| Dec 3, 2004 | 4.0 | 1.210 | 27.5 |
| Apr 15, 2005 | 12.5 | 1.211 | 27.6 |
| Jun 4, 2005 | 22.0 | 1.203 | 26.8 |
| Sep 20, 2005 | 23.5 | 1.209 | 27.5 |

10010100 GREAT SALT LAKE NEAR SALINE, UT—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|----------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 4,193.7 | 4,193.7 | 4,193.6 | 4,193.9 | 4,194.6 | 4,194.8 | 4,194.9 | 4,195.4 | 4,196.2 | 4,196.4 | 4,195.9 | 4,195.5 |
| 2 | 4,193.6 | 4,193.6 | 4,193.6 | 4,193.9 | 4,194.5 | 4,194.8 | 4,195.0 | 4,195.3 | 4,196.1 | 4,196.4 | 4,196.0 | 4,195.5 |
| 3 | 4,193.6 | 4,193.7 | 4,193.6 | 4,193.9 | 4,194.5 | 4,194.9 | 4,195.0 | 4,195.3 | 4,196.2 | 4,196.4 | 4,195.9 | 4,195.4 |
| 4 | 4,193.6 | 4,193.7 | 4,193.6 | 4,194.0 | 4,194.5 | 4,194.8 | 4,195.1 | 4,195.3 | 4,196.1 | 4,196.4 | 4,196.0 | 4,195.4 |
| 5 | 4,193.6 | 4,193.6 | 4,193.7 | 4,194.0 | 4,194.5 | 4,194.9 | 4,195.1 | 4,195.2 | 4,196.0 | 4,196.4 | 4,195.9 | 4,195.4 |
| 6 | 4,193.6 | 4,193.6 | 4,193.7 | 4,194.0 | 4,194.5 | 4,194.9 | 4,195.1 | 4,195.3 | 4,196.2 | 4,196.4 | 4,195.9 | 4,195.4 |
| 7 | 4,193.6 | 4,193.6 | 4,193.7 | 4,193.9 | 4,194.6 | 4,194.8 | 4,195.1 | 4,195.4 | 4,196.4 | 4,196.3 | 4,195.9 | 4,195.4 |
| 8 | 4,193.6 | 4,193.7 | 4,193.7 | 4,193.8 | 4,194.5 | 4,194.8 | 4,195.1 | 4,195.4 | 4,196.3 | 4,196.3 | 4,195.9 | 4,195.4 |
| 9 | 4,193.7 | 4,193.7 | 4,193.7 | 4,194.0 | 4,194.5 | 4,194.8 | 4,195.2 | 4,195.5 | 4,196.3 | 4,196.4 | 4,195.9 | 4,195.3 |
| 10 | 4,193.8 | 4,193.7 | 4,193.7 | 4,194.1 | 4,194.5 | 4,194.9 | 4,195.3 | 4,195.6 | 4,196.3 | 4,196.4 | 4,195.9 | 4,195.4 |
| 11 | 4,193.6 | 4,193.6 | 4,193.7 | 4,194.5 | 4,194.5 | 4,194.9 | 4,195.0 | 4,195.6 | 4,196.3 | 4,196.3 | 4,195.8 | 4,195.4 |
| 12 | 4,193.6 | 4,193.7 | 4,193.7 | 4,194.5 | 4,194.6 | 4,195.0 | 4,195.0 | 4,195.7 | 4,196.5 | 4,196.3 | 4,195.8 | 4,195.3 |
| 13 | 4,193.6 | 4,193.8 | 4,193.8 | 4,194.3 | 4,194.6 | 4,195.0 | 4,195.0 | 4,195.7 | 4,196.3 | 4,196.3 | 4,195.9 | 4,195.3 |
| 14 | 4,193.5 | 4,193.7 | 4,193.8 | 4,194.3 | 4,194.7 | 4,194.9 | 4,195.1 | 4,195.7 | 4,196.3 | 4,196.3 | 4,195.8 | 4,195.3 |
| 15 | 4,193.5 | 4,193.7 | 4,193.8 | 4,194.3 | 4,194.7 | 4,194.8 | 4,195.1 | 4,195.7 | 4,196.3 | 4,196.3 | 4,195.7 | 4,195.2 |
| 16 | 4,193.5 | 4,193.7 | 4,193.8 | 4,194.3 | 4,194.7 | 4,194.9 | 4,195.1 | 4,195.9 | 4,196.2 | 4,196.2 | 4,195.8 | 4,195.2 |
| 17 | e4,193.5 | 4,193.7 | 4,193.8 | 4,194.3 | 4,194.6 | 4,195.0 | 4,195.1 | 4,196.0 | 4,196.5 | 4,196.3 | 4,195.7 | 4,195.3 |
| 18 | e4,193.5 | 4,193.7 | 4,193.8 | 4,194.3 | 4,194.6 | 4,194.8 | 4,195.4 | 4,195.8 | 4,196.4 | 4,196.2 | 4,195.7 | 4,195.3 |
| 19 | e4,193.6 | 4,193.8 | 4,193.8 | 4,194.3 | 4,194.7 | 4,194.8 | 4,195.2 | 4,195.9 | 4,196.3 | 4,196.2 | 4,195.7 | 4,195.2 |
| 20 | e4,193.6 | 4,193.8 | 4,193.8 | e4,194.3 | 4,194.7 | 4,194.9 | 4,195.2 | 4,196.0 | 4,196.3 | 4,196.2 | 4,195.7 | 4,195.2 |
| 21 | e4,193.7 | 4,193.8 | 4,193.8 | e4,194.3 | 4,194.7 | 4,194.9 | 4,195.1 | 4,196.1 | 4,196.2 | 4,196.2 | 4,195.7 | 4,195.2 |
| 22 | 4,193.7 | 4,193.7 | 4,193.8 | e4,194.3 | 4,194.8 | 4,194.7 | 4,195.2 | 4,196.0 | 4,196.1 | 4,196.2 | 4,195.7 | 4,195.1 |
| 23 | 4,193.6 | 4,193.7 | 4,193.8 | e4,194.3 | 4,194.8 | 4,194.9 | 4,195.1 | 4,196.1 | 4,196.2 | 4,196.1 | 4,195.6 | 4,195.1 |
| 24 | 4,193.7 | 4,193.6 | 4,193.8 | e4,194.3 | 4,194.8 | 4,195.1 | 4,195.1 | 4,196.1 | 4,196.3 | 4,196.1 | 4,195.7 | 4,195.3 |
| 25 | 4,193.6 | 4,193.7 | 4,193.8 | e4,194.3 | 4,194.8 | 4,195.1 | 4,195.2 | 4,196.1 | 4,196.2 | 4,196.2 | 4,195.6 | 4,195.2 |
| 26 | 4,193.6 | 4,193.7 | 4,193.8 | e4,194.4 | 4,194.8 | 4,195.0 | 4,195.3 | 4,196.0 | 4,196.3 | 4,196.1 | 4,195.6 | 4,195.1 |
| 27 | 4,193.6 | 4,193.7 | 4,193.8 | 4,194.4 | 4,194.8 | 4,194.9 | 4,195.2 | 4,196.0 | 4,196.4 | 4,196.1 | 4,195.6 | 4,195.1 |
| 28 | 4,193.7 | 4,193.9 | 4,193.8 | 4,194.4 | 4,194.8 | 4,195.0 | 4,195.4 | 4,196.0 | 4,196.4 | 4,196.0 | 4,195.6 | 4,195.2 |
| 29 | 4,193.8 | 4,193.7 | 4,193.8 | 4,194.5 | --- | 4,195.0 | 4,195.4 | 4,196.1 | 4,196.4 | 4,196.1 | 4,195.5 | 4,195.1 |
| 30 | 4,193.7 | 4,193.6 | 4,193.8 | 4,194.8 | --- | 4,195.2 | 4,195.4 | 4,196.2 | 4,196.4 | 4,196.0 | 4,195.7 | 4,195.1 |
| 31 | 4,193.8 | --- | 4,193.8 | 4,194.6 | --- | 4,195.0 | --- | 4,196.0 | --- | 4,196.0 | 4,195.5 | --- |
| Mean | 4,193.6 | 4,193.7 | 4,193.7 | 4,194.2 | 4,194.6 | 4,194.9 | 4,195.1 | 4,195.8 | 4,196.3 | 4,196.2 | 4,195.8 | 4,195.3 |
| Max | 4,193.8 | 4,193.9 | 4,193.8 | 4,194.8 | 4,194.8 | 4,195.2 | 4,195.4 | 4,196.2 | 4,196.5 | 4,196.4 | 4,196.0 | 4,195.5 |
| Min | 4,193.5 | 4,193.6 | 4,193.6 | 4,193.8 | 4,194.5 | 4,194.7 | 4,194.9 | 4,195.2 | 4,196.0 | 4,196.0 | 4,195.5 | 4,195.1 |

10010100 GREAT SALT LAKE NEAR SALINE, UT—Continued

