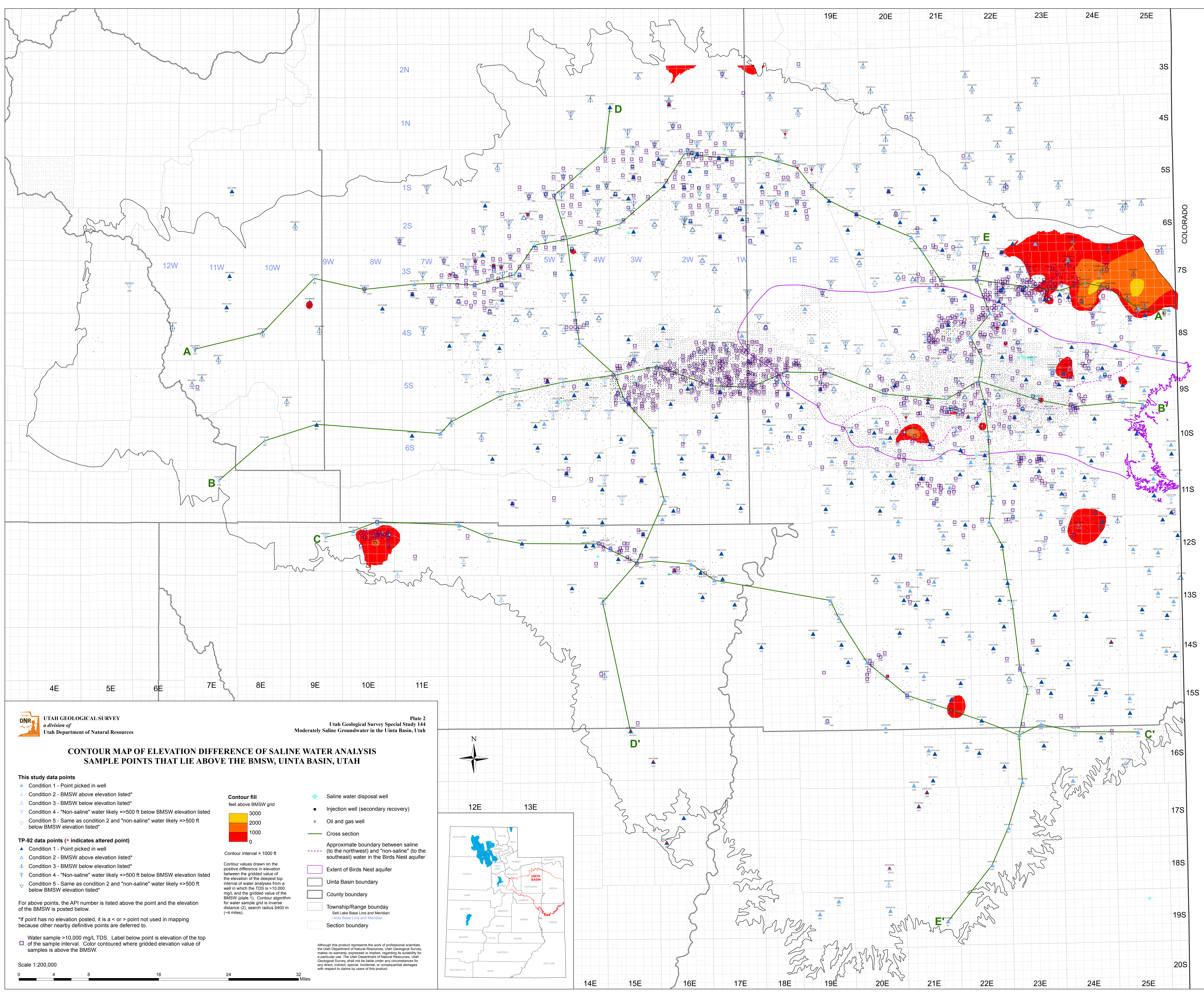




UTAH GEOLOGICAL SURVEY
a division of
Utah Department of Natural Resources

Plate 2
Utah Geological Survey Special Study 144
Moderately Saline Groundwater in the Uinta Basin, Utah

CONTOUR MAP OF ELEVATION DIFFERENCE OF SALINE WATER ANALYSIS SAMPLE POINTS THAT LIE ABOVE THE BMSW, UINTA BASIN, UTAH

This study data points

- ▲ Condition 1 - Point picked in well
- ▲ Condition 2 - BMSW above elevation listed*
- ▲ Condition 3 - BMSW below elevation listed*
- ▼ Condition 4 - "Non-saline" water likely $\Rightarrow$ 500 ft below BMSW elevation listed
- ▼ Condition 5 - Same as condition 2 and "non-saline" water likely $\Rightarrow$ 500 ft below BMSW elevation listed*

TP-92 data points (● indicates altered point)

- ▲ Condition 1 - Point picked in well
- ▲ Condition 2 - BMSW above elevation listed*
- ▲ Condition 3 - BMSW below elevation listed*
- ▼ Condition 4 - "Non-saline" water likely $\Rightarrow$ 500 ft below BMSW elevation listed
- ▼ Condition 5 - Same as condition 2 and "non-saline" water likely $\Rightarrow$ 500 ft below BMSW elevation listed*

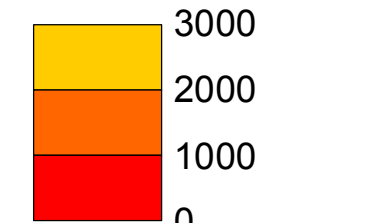
For above points, the API number is listed above the point and the elevation of the BMSW is posted below.

*If point has no elevation posted, it is a < or > point not used in mapping because other nearby definitive points are deferred to.

Water sample >10,000 mg/L TDS. Label below point is elevation of the top of the sample interval. Color contoured where gridded elevation value of samples is above the BMSW.

Contour fill

feet above BMSW grid



Contour interval = 1000 ft

Contour values drawn on the positive difference in elevation between the gridded value of the elevation of the deepest top interval of water analyses from a well in which the TDS is >10,000 mg/L and the gridded value of the BMSW (plate 1). Contour algorithm for water sample grid is inverse distance (2), search radius 6400 m (~4 miles).

- Saline water disposal well
- Injection well (secondary recovery)
- Oil and gas well
- Cross section
- Approximate boundary between saline (to the northwest) and "non-saline" (to the southeast) water in the Birds Nest aquifer
- Extent of Birds Nest aquifer
- Uinta Basin boundary
- County boundary
- Township/Range boundary
- Salt Lake Base Line and Meridian
- Uinta Base Line and Meridian
- Section boundary

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Scale 1:200,000

