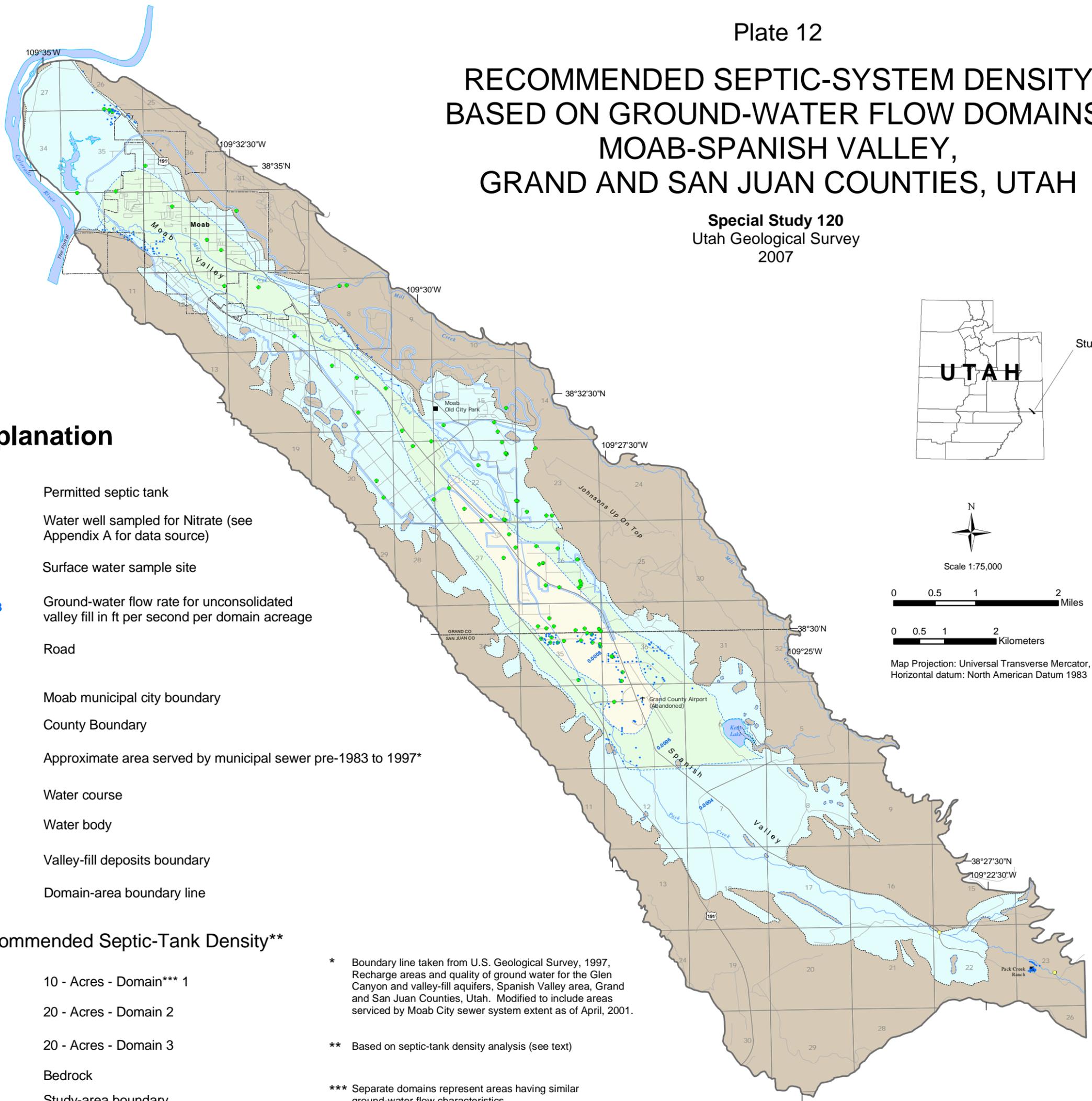


RECOMMENDED SEPTIC-SYSTEM DENSITY BASED ON GROUND-WATER FLOW DOMAINS, MOAB-SPANISH VALLEY, GRAND AND SAN JUAN COUNTIES, UTAH

Special Study 120
Utah Geological Survey
2007



Explanation

- Permitted septic tank
- Water well sampled for Nitrate (see Appendix A for data source)
- Surface water sample site
- 0.0008 Ground-water flow rate for unconsolidated valley fill in ft per second per domain acreage
- Road
- - - - Moab municipal city boundary
- - - - County Boundary
- Approximate area served by municipal sewer pre-1983 to 1997*
- Water course
- Water body
- - - - Valley-fill deposits boundary
- - - - Domain-area boundary line

Recommended Septic-Tank Density**

- 10 - Acres - Domain*** 1
- 20 - Acres - Domain 2
- 20 - Acres - Domain 3
- Bedrock
- Study-area boundary

* Boundary line taken from U.S. Geological Survey, 1997, Recharge areas and quality of ground water for the Glen Canyon and valley-fill aquifers, Spanish Valley area, Grand and San Juan Counties, Utah. Modified to include areas serviced by Moab City sewer system extent as of April, 2001.

** Based on septic-tank density analysis (see text)

*** Separate domains represent areas having similar ground-water flow characteristics



Scale 1:75,000

0 0.5 1 2 Miles

0 0.5 1 2 Kilometers

Map Projection: Universal Transverse Mercator, zone 12
Horizontal datum: North American Datum 1983

