Blitzen Area Quaternary-Late Tertiary Sediment Aquifers

Median physical parameters indicate this sand and gravel unit has 45% of ideal conditions for artificial recharge. Coarse-grained sediments are overlain by less permeable clays across the basin. The rating table is included below, and interested parties may insert site-specific data to produce results that reflect localized aquifer conditions.

Positive characteristics for artificial recharge:

- Hydraulic conductivity will allow significant infiltration rates.
- Depth to static water will allow some water level rise during injection.

Negatives:

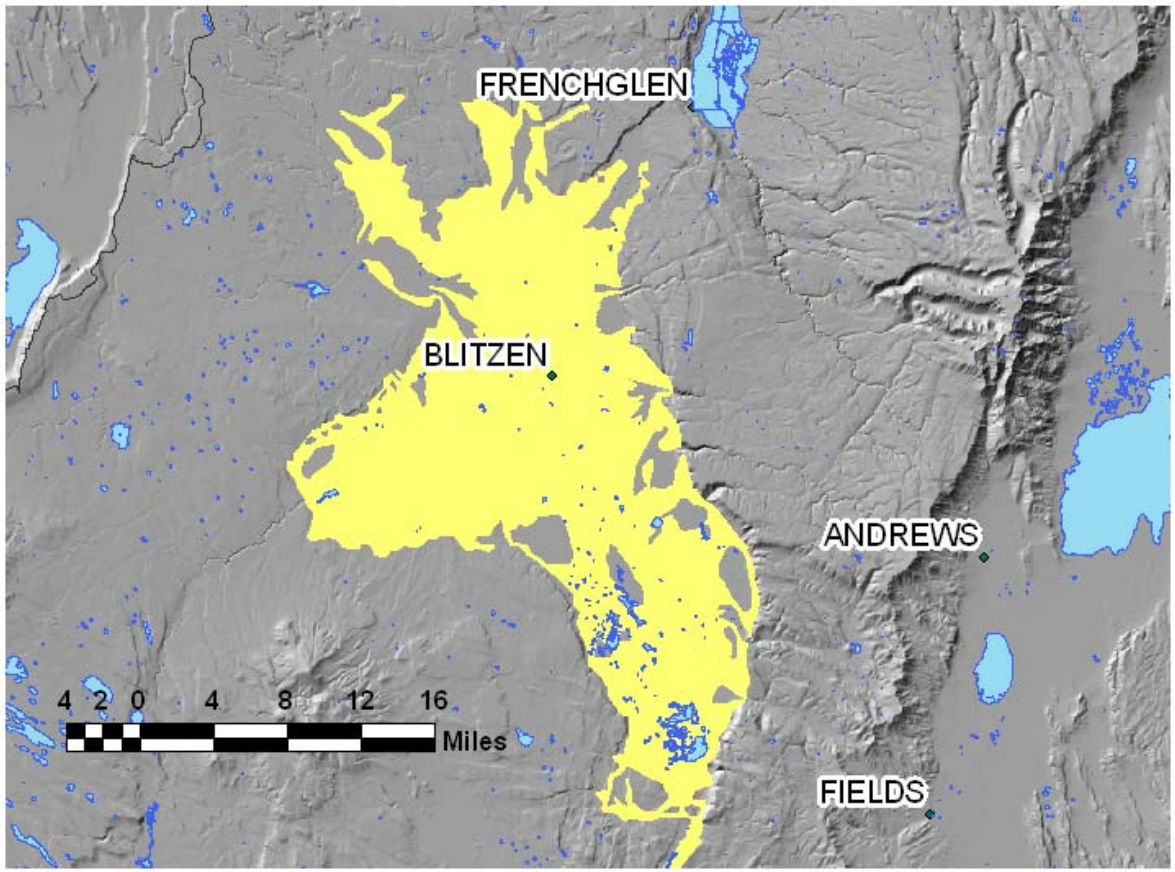
- Clay layers within the aquifer may inhibit downward infiltration. This indicates injection well recharge is more likely than spreading basin recharge, which usually requires more intensive water treatment.

Surface water availability will strongly affect underground storage potential. This requires site-specific knowledge of water rights quantity and timing.

Sources:

- OWRD Well logs

Extent of Blitzen Area Quaternary-Late Tertiary Sediment Aquifers



Less Storage

More Storage

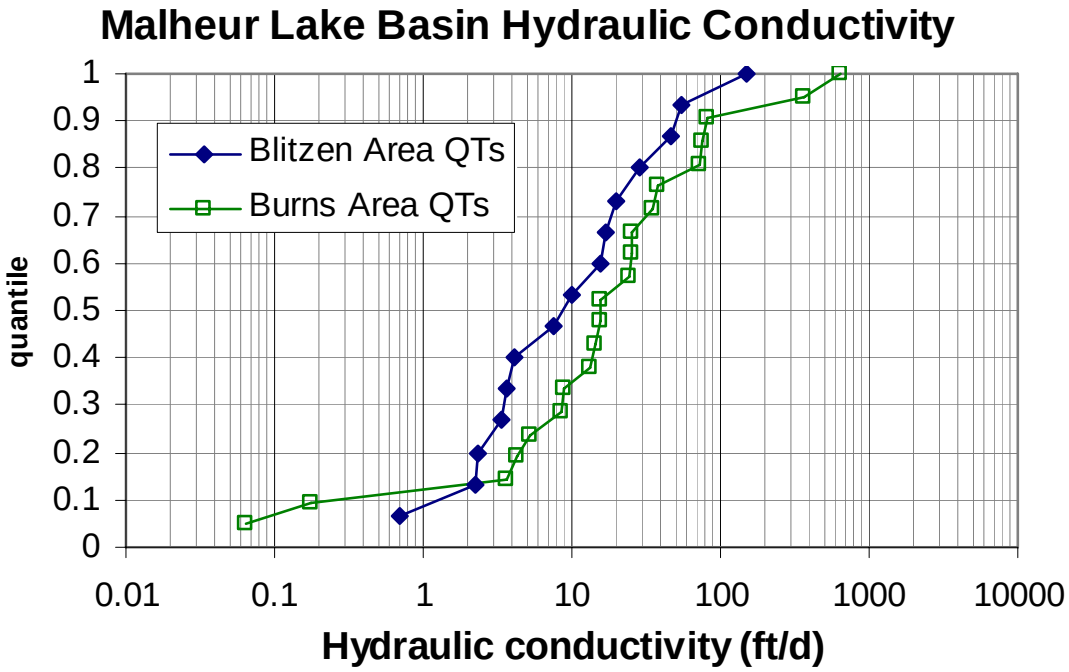
This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

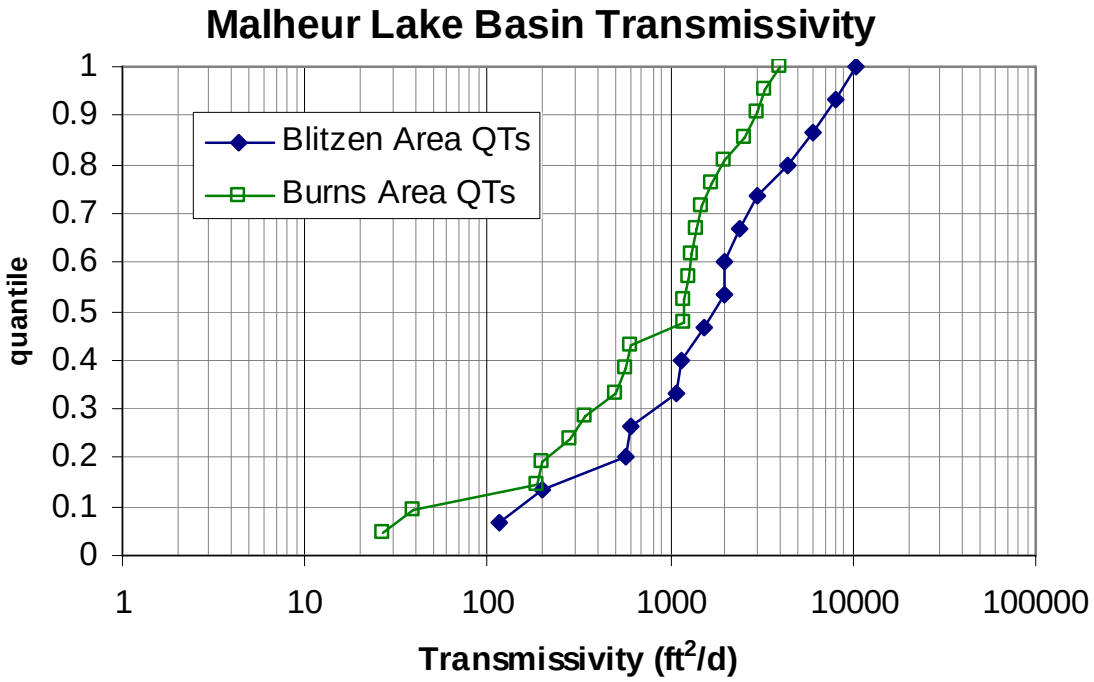
Unconsolidated Unit: Blitzen Area Quaternary-Late Tertiary Sediment Aquifers

Physical Parameter	Range of Reported Values	Value for Calc-ulation	Find the "value range" where the "value for calculation" falls, and select the corresponding rating										Selected Rating	Data Quality
			Value Range	Rating	Value Range	Rating	Value Range	Rating	Value Range	Rating	Value Range	Rating		
Depth to Formation (ft)	3-187	90	0-4	20	5-9	15	10-24	10	25-49	3	>50	1	1	2
Saturated Thickness (ft)	20-900	300	0-19	1	20-39	2	40-79	4	80-159	8	>160	10	10	2
Head Freeboard (ft)	55-105	78	0-4	1	5-9	2	10-19	4	20-29	8	>30	50	50	2
Storage Coefficient	0.1-0.2	0.15	0-0.09	1	0.1-0.14	5	0.15-0.19	10	0.2-0.24	25	>0.25	50	10	1
Hydraulic Conductivity (ft/d)	0.7-151	24	0-0.9	1	1-9	5	10-99	10	100-999	25	>1000	50	10	2
												Totals:	81	9

Sum of Selected Ratings/Perfect Rating = 81/180 = 45%

Data Quality: 1=based on general values for this aquifer lithology
2=based on 8 or less well logs
3=based on more than 8 well logs
4=based on published information and/or data specific to this aquifer





Abbreviations: QTs = Quaternary-Late Tertiary Sediment Aquifers