

LPR Water Source Alternatives - FEASIBILITY Analysis

"Not Engineered - ESTIMATES (no bids yet)"

(includes related dependencies for Water Infrastructure Build-out and Ongoing O&M)

(Assumes Water Rights Acquisition is an independent related challenge)

(Assumes Water Rights will be Transferred)

(Alt 1. Private Well is less than 7 Connections & less than 25 ConCurrent Occupants)

150 Number of Connections (Community)

10% Dry Well Percentage Estimate

600 Foot Well Depth

300 Foot Average Cluster Piping / Connection

\$32 Per foot Trenching

Estimated Gallons per Minute / Connection

2 Number of New Ponderosa Wells

ALTERNATIVE >>>	[Approved for Commercial Use?]			[Community Public Water System]			[Community Public Water System]			Comments
	1. Cluster LPR Wells (Landowner Mgmt)			2. New Ponderosa Well(s)			3. Large Off-site Well			
Description	Qty	Estimated Unit Cost	Total	Qty	Estimated Unit Cost	Total	Qty	Estimated Unit Cost	Total	
Well Infrastructure Build-Out										Alt 1&2. Can LPR Wells be Public < 2 miles? Where on LPR is > 2 miles? Commerical or no?
Driller Mobilization	21	\$3,500	\$75,000	2	\$3,500	\$7,000			\$0	Alt 1&2. Resp Determined by landowners
Test Hole (9 7/8") [\$40/foot]	21	\$24,000	\$514,286	2	\$24,000	\$48,000			\$0	Alt 1&2. Resp Determined by landowners
Ream Out / Final [\$80/foot]	21	\$48,000	\$1,028,571	2	\$48,000	\$96,000			\$0	Alt 1&2. Resp Determined by landowners
Cap Well	21	\$8,000	\$171,429	2	\$8,000	\$16,000			\$0	Alt 1&2. Resp Determined by landowners
100 foot Surface Seal	21	\$0	\$0	2	\$3,500	\$7,000			\$0	Alt 1&2. Resp Determined by landowners
Pump & install in hole	21	\$10,000	\$214,286	2	\$10,000	\$20,000			\$0	Alt 1&2. Resp Determined by landowners
Dry Well Fill Allowance	2	\$7,200	\$15,429	0.5	\$7,200	\$3,600			\$0	Alt 1&2. Resp Determined by landowners
Project Management	21	\$750	\$16,071	2	\$750	\$1,500			\$0	Alt 1&2. Resp Determined by landowners
Administration	21	\$350	\$7,500	2	\$350	\$700			\$0	Alt 1&2. Resp Determined by landowners
Legal Contracts	21	\$1,000	\$21,429	2	\$5,000	\$10,000			\$0	Alt 1&2. Resp Determined by landowners
N Hood Trenching / BackFill	150	\$9,600	\$1,440,000	0		\$0			\$0	Alt 1&2. Resp Determined by landowners
N Hood Piping	150	\$600	\$90,000	0		\$0			\$0	Alt 1&2. Resp Determined by landowners
N Hood Tanks in Hole	11	\$2,000	\$22,857	0		\$0			\$0	Alt 1&2. Resp Determined by landowners
Small Tanks ? Well Storage	0		\$0	0		\$0	0	\$0	\$0	Alt 3. Third Party Water Company Buildout
Neighbor Small Pumps	11	\$800	\$9,143	0		\$0			\$0	Alt 1&2. Resp Determined by landowners
Engineering Review	1	\$1,000	\$1,000	2	\$1,000	\$2,000			\$0	Alt 1&2. Resp Determined by landowners
Engineering	1	\$1,000	\$1,000	1	\$75,000	\$75,000	1	\$75,000	\$75,000	Alt 3. Third Party Water Company Buildout
Sand & Gravel / Connection	150	\$200	\$30,000	150	\$400	\$60,000	150	\$400	\$60,000	Alt 3. Third Party Water Company Buildout
Electric Service for Pumps	21	\$4,000	\$85,714	2	\$6,500	\$13,000	2	\$6,500	\$13,000	Alt 3. Third Party Water Company Buildout
Alt 3. Project Mgmt (Build-Out)	0		\$0	1	\$33,000	\$33,000	1	\$33,000	\$33,000	Alt 3. Third Party Water Company Buildout
Large Pumps	0		\$0	2	\$16,302	\$32,604	2	\$16,302	\$32,604	Alt 3. Third Party Water Company Buildout
Large Tanks	0		\$0	1	\$50,000	\$50,000	1	\$50,000	\$50,000	Alt 3. Third Party Water Company Buildout
Piping-Well to Large Tanks	0		\$0	2	\$125,068	\$250,136	2	\$125,068	\$250,136	Alt 3. Third Party Water Company Buildout
Community Piping (Installed)	0		\$0	1	\$403,528	\$403,528	1	\$403,528	\$403,528	Alt 3. Third Party Water Company Buildout
Trenching/BackFill to LTanks	0	\$500	\$0	1	\$153,930	\$153,930	1	\$153,930	\$153,930	Alt 3. Third Party Water Company Buildout
Trenching/BackFill Community	0	\$500	\$0	1	\$448,000	\$448,000	1	\$448,000	\$448,000	Alt 3. Third Party Water Company Buildout
Real Property Acquisition	0	\$500	\$0	0	\$0	\$0	0	\$0	\$0	Alt 3. Third Party Water Company Buildout
Booster Pump Shed	0	\$500	\$0	1	\$20,000	\$20,000	0		\$0	Alt 3. Third Party Water Company Buildout
Other / Misc	21	\$500	\$10,714	2	\$150,000	\$300,000	2	\$150,000	\$300,000	Alt 3. Third Party Water Company Buildout
Alternative 3 Rough Estimate	0	\$0	\$0	0	\$0	\$0	150	\$35,000	\$5,250,000	Alt 3. Minimum # of landowners ?: Start deposit?
TOTAL			\$3,754,429			\$2,050,998			\$7,069,198	Alt 3. Rate @ 150 X \$35000 per Connection; might be higher? 10M?; Transfer WR to ESSD?; Private Water Co. build+O&M? Funding?
Cost Per Connection			\$25,030			\$13,673			\$47,128	Add Impact fee (meter set); rate/gal unknown

