

Upper Valle De Los Caballos Recovery Well No. 172 Final Design

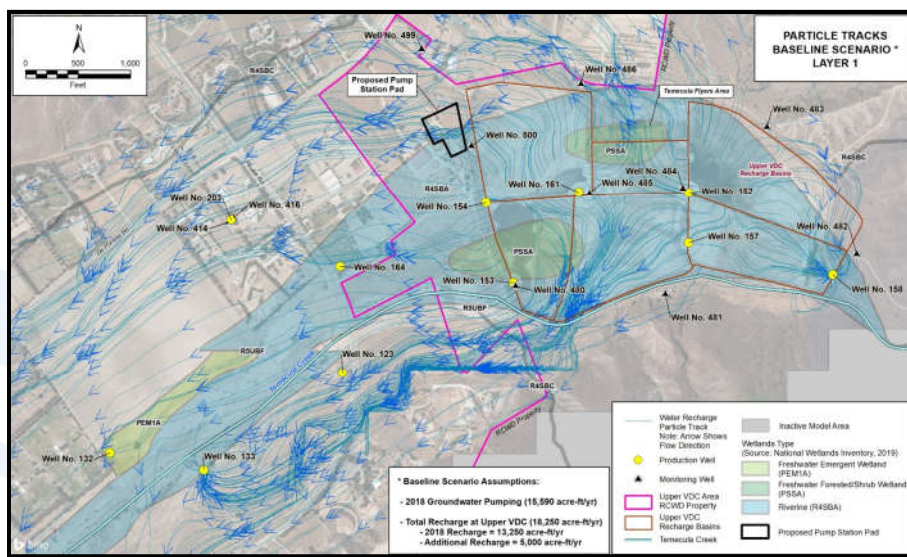
Board of Directors Meeting
Item 4.C - March 10, 2022



UVDC Focused Model (Geoscience 2021)



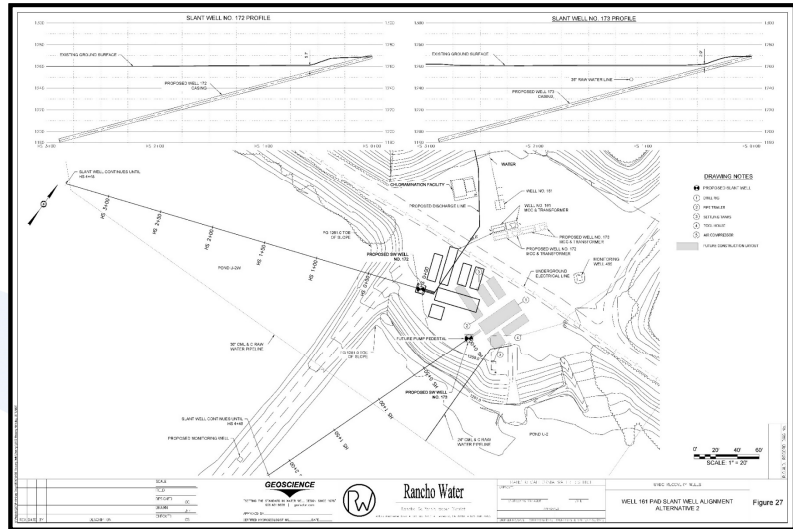
- Utilized to optimize well siting for expanded UVDC recharge and recovery



Proposed SW Well No. 172 Alignment



- Slant Wells Proposed
- RWQCB coordination indicated concerns with slant wells within recharge ponds
 - Considered *Under the Influence of Surface Water* until definitively proven otherwise



Proposed UVDC Well No. 172 & 173



- Retained future SW alignment
- Re-sited Wells 172, 173, and MW512



Amendment Scope



- Electrical Conduit, Communications, and Power design to Monitoring Well MW512 location
- Well No. 172 extended depth geotechnical borings
 - Construction Schedule & Cost Savings
 - Reduced Risk during Construction
- Siting analysis for W173 & Monitoring Well

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Project Cost Summary



ITEM	Budgeted Cost	Costs To Date	Projected Cost	% of Total Project Cost
Final Design & Environmental Compliance				
RCWD Labor	\$ 100,000	\$ 50,277	\$ 100,000	3.1%
Well Drilling, Construction, Development, and Testing Design	\$ 300,000	\$ 147,872	\$ 275,000	8.6%
Well Equipping Design	\$ 150,000	\$ -	\$ 185,000	5.8%
Environmental Compliance	\$ 40,000	\$ 24,293	\$ 30,000	0.9%
Misc. Project Costs (Duplication, Permits, etc.)	\$ 5,000	\$ 1,500	\$ 5,000	0.2%
Design Contingencies	\$ 25,000	\$ 5,360	\$ 25,000	0.8%
Subtotal Final Design/Environmental	\$ 620,000	\$ 229,302	\$ 620,000	19.4%
Construction				
RCWD Labor (Engr, CM/Insp, Ops)	\$ 175,000	\$ -	\$ 175,000	5.5%
Well Drilling, Construction, and Equipping of Well No.172	\$ 2,100,000	\$ -	\$ 2,100,000	65.6%
Hydrogeological Services (Inspection/Testing)	\$ 125,000	\$ -	\$ 125,000	3.9%
Construction Contingency	\$ 180,000	\$ -	\$ 180,000	5.6%
Subtotal Construction	\$ 2,580,000	\$ -	\$ 2,580,000	80.6%
Total Project Costs	\$ 3,200,000	\$ 229,302	\$ 3,200,000	100.0%

- \$1.30M in Grant Funding Secured

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Request



- Board of Directors consider approval of an amendment to Geoscience Support Services, Inc. in the amount of \$46,567 for additional design & field services related to UVDC Well No. 172 (Project No. D2008)