



Well No. 6 Next Steps

October 20, 2026



Agenda

- Well Drilling
- Well No. 4 and Well No. 6 Water Quality and Blend Ratios
- Prior Work Completed
- Scope, Schedule and Budget of Improvements to Bring Well No. 6 Online
- Next Steps

Well Construction

- Total Depth of 1500' bgs
- Three Screened Zones

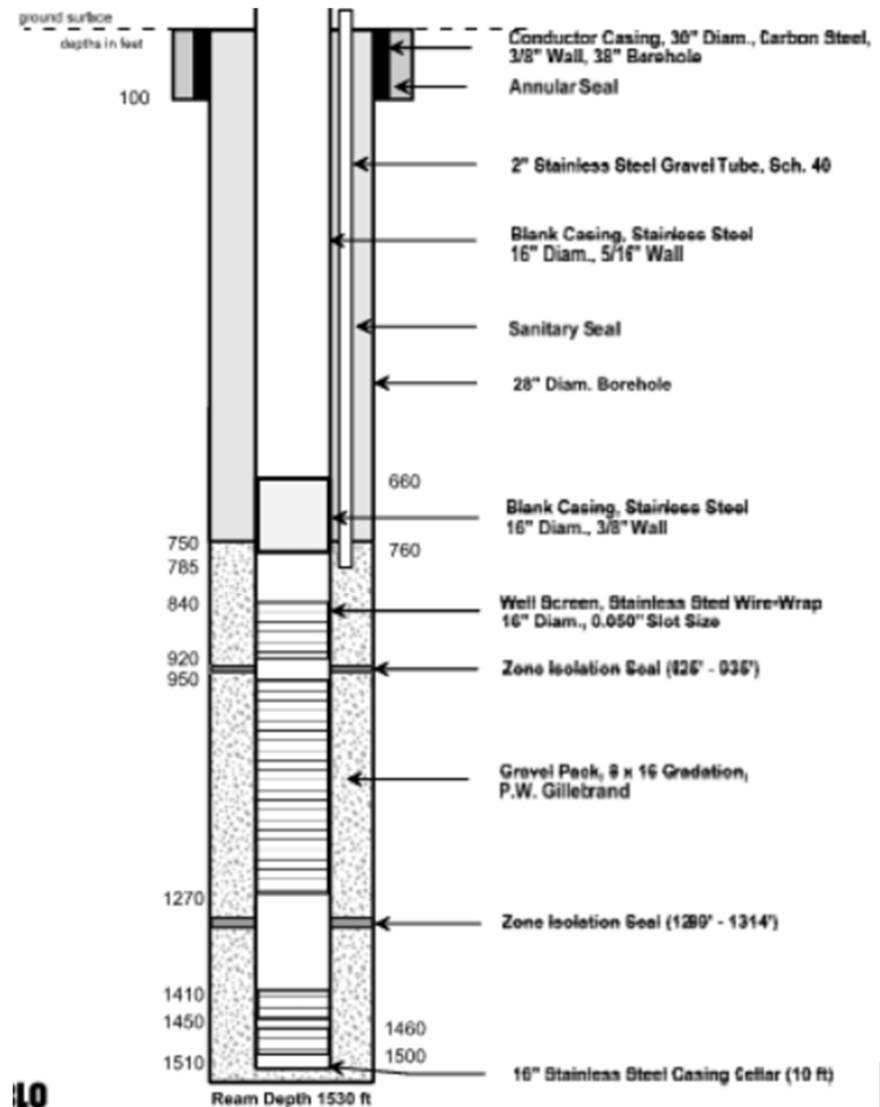


FIGURE 3 WELL NO. 6 AS-BUILT DRAWING
Castroville Community Services District

Contractor Costs

- \$1,395,220 base bid price.
- Change order of \$69,300 for deeper well.
- \$1,464,520 total cost.
- Partial funding of \$125K through DWR Integrated Regional Water Management (IRWM) Grant

Well Testing and Extended Testing

- High Production Rate: > 1,600 GPM
- Initial Testing Showed High Levels of Multiple Constituents and Odors – Arsenic, Chloride, Specific Conductance, Total Dissolved Solids
- Pueblo Recommended Additional Pumping
- Extended Testing Successfully Yielded Improved Water Quality, Reduced Arsenic, Manganese
- Temperature ~91 degrees

Baseline Water Quality

Parameter	Unit		Sample Date, Time, GPM			
		State MCL Primary Secondary	10/29/25 10:00 836 gpm	10/29/25 11:40 1240 gpm	10/29/25 13:20 1652 gpm	10/30/25 13:30 1246 gpm
Major Cations						
Calcium	mg/L		19	19	18	18
Magnesium	mg/L		3.7	3.8	3.7	3.5
Potassium	mg/L		2.5	2.5	2.8	3.7
Sodium	mg/L		207	206	212	242
Major Anions						
Bicarbonate (as HCO3-)	mg/L		175	172	177	228
Chloride	mg/L	250	245	252	250	274
Sulfate	mg/L	250	22	22	22	26
Metals						
Arsenic	ug/L	10	23.5	18.5	10.9	6.4
Iron	ug/L	300	30	ND	37	ND
Manganese	ug/L	50	151	147	139	118
Other						
Specific Conductance	umhos/cm	900	1172	1170	1184	1318
Total Dissolved Solids	mg/L	500	640	650	640	704
pH-Field	pH-units		7.5	7.5	7.5	7.6
pH-Lab	pH-units		8.2	8.2	8.2	8.2
Total Sulfides	mg/L		ND	0.1	0.2	

Blending Ratios

- Secondary Constituents of Concern:
 - Specific Conductance
 - Chloride
 - Temperature
- See Separate Spreadsheet
- Pueblo Recommends Production Range of 600 to 1600 GPM

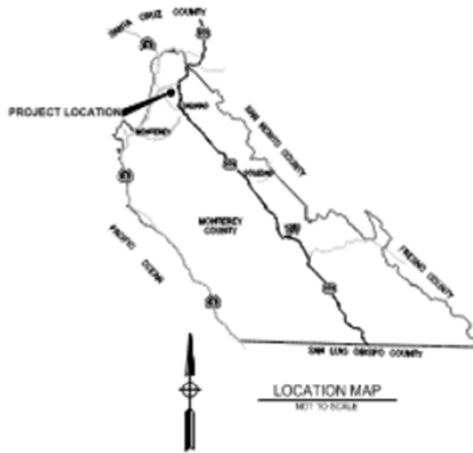
Prior Work

- CEQA Compliance Completed
- Site Survey Complete
- Geotechnical Investigation Complete, But Requires Update
- 30% Design Complete, But Requires Significant Modifications

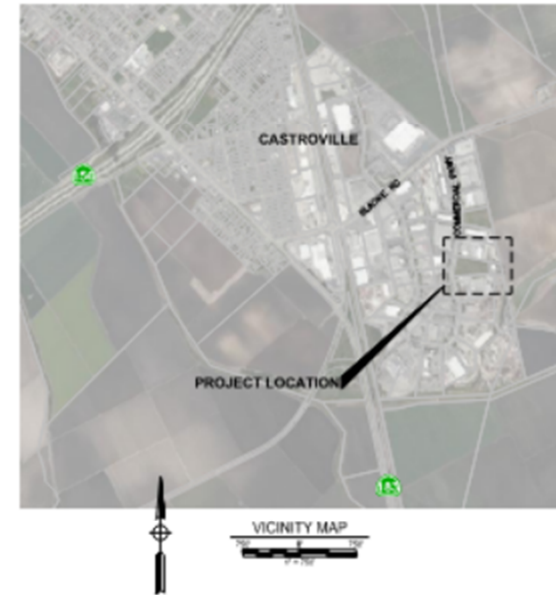
CASTROVILLE COMMUNITY SERVICES DISTRICT

EMERGENCY DEEP AQUIFER SUPPLY AND STORAGE TANK PROJECT

OCTOBER 2022



SHEET INDEX		
SHEET NO.	DRAWING NO.	TITLE
1	G-01	TITLE SHEET, VICINITY MAP, LOCATION MAP, AND SHEET INDEX
2	G-02	GENERAL NOTES AND SITE PLAN
3	C-01	DEMOLITION PLAN
4	C-02	SITE PLAN
5	C-03	GRADING AND DRAINAGE PLAN
6	C-04	SITE PAVING PLAN
7	C-05	SITE PAVING DETAILS 1
8	C-06	SITE PAVING DETAILS 2
9	C-07	440,000 GALLON TANK PLAN AND SECTIONS
10	C-08	440,000 GALLON TANK DETAILS 1
11	C-09	440,000 GALLON TANK DETAILS 2
12	C-10	HYDRO-PNEUMATIC TANK PLAN AND SECTIONS
13	C-11	NOT USED
14	C-12	NOT USED
15	C-13	CARL DETAILS 1
16	C-14	CARL DETAILS 2
17	C-15	CARL DETAILS 3
18	C-16	STORMWATER BMP PLAN AND DETAILS
19	S-01	STRUCTURAL NOTES
20	S-02	SPECIAL INSPECTION
21	S-03	STRUCTURAL SITE PLAN
22	S-04	STRUCTURAL DETAILS
23	S-05	SYMBOLS & ABBREVIATIONS
24	E-1.1	ELECTRICAL SPECIFICATIONS
25	E-2.1	SITE PLAN
26	E-3.1	SINGLE LINE DIAGRAM
27	E-4.1	ELECTRICAL DETAILS



***30% DESIGN - NOT FOR CONSTRUCTION**

**EMERGENCY DEEP AQUIFER SUPPLY
AND STORAGE TANK**
CASTROVILLE COMMUNITY SERVICES DISTRICT
**TITLE SHEET, VICINITY MAP,
LOCATION MAP, AND SHEET INDEX**

PROJECT NUMBER
DICVL-200738.01
DRAWING NUMBER
G-01
SHEET NUMBER
1 OF 27



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DESIGNED BY
NCP
CHECKED BY
JAO
PROJECT NO.
TNN

APPROVED BY: 



SCALE
AS SHOWN



	PROJECT NUMBER	DICVL-200738.01
	DRAWING NUMBER	C-04
	SHEET NUMBER	6 37

Recommended Infrastructure

- Mechanical Improvements
 - Well Pump
 - Site Piping
 - Blending w/ Continuous Sampling
 - Hydropneumatic Tank
 - Connections for Future Tank
- Electrical
 - Well Electrical / Instrumentation and Controls
 - Generator Replacement
 - Lighting
- Site Improvements
 - Grading/Drainage
 - Lighting
 - Paving
 - Security

Next Steps

- Scope
 - Detailed Planning and Design: Mechanical, Civil, Structural, Electrical, I&C
 - DDW Permitting
 - Bid/Construction Support
 - Construction Management/Inspection
- Schedule
 - Design: 8 months
 - Bid: 2 months
 - Construction: 14 months
- Budget/Funding

Thank you!

