

Kern Fan Groundwater Storage Project Proposed Projects and Capital Budget for 2022-23 through 2024-25

SCOPE OF WORK

A capital outlay program has been prepared for the next three years and is outlined below. It primarily involves the development of two recharge and recovery properties referred to as the:

- 1) **Bolthouse Property** – Approximately 200 acres located on the west side of Enos Lane and north of the Goose Lake Channel in Section 26, T29S, R25E also being APN's 104-240-22, 104-240-30, and 104-240-31.
- 2) **Diamond Property** – Approximately 160 acres located north of Stockdale Hwy and east of the Rosedale Intake Canal in Section 35, T29S, R25E also being APN 104-291-07.

The development work includes, but is not limited to, recharge basins, recovery wells (two per property), well conveyance pipelines, interconnection with the Central Intake Pipeline for the Bolthouse property, interconnection with the Strand Ranch North CVC Turnout for the Diamond property, interconnection with the RRBWSD-CVC intertie pipeline for the Diamond property return flows, a potential conveyance facility in the Goose Lake Channel to either property, and a SCADA and PLC communication system.

Fiscal Year 2022-23

The work to be completed in FY2022-23 is anticipated to include the following:

- Land Acquisition for each property
- Environmental work for each property including CEQA and NEPA
- Engineering Design including field surveying, geotechnical work, preliminary engineering design, plans, specifications, cost estimates, bid documents, permitting, and electrical service applications.
- SCADA and PLC system design and software purchase
- Bid Phase Administration for the Bolthouse Property Recharge Basin Earthwork Project
- Bid Phase Administration for the Bolthouse Property Conveyance Facilities including well conveyance pipelines, Enos Lane road crossing, interconnection with the Central Intake Pipeline and potential Goose Lake Channel pump station facility
- Bid Phase Administration for the Bolthouse Property Well Drilling and Well Equipping for two recovery wells

- Bid Phase Administration for the Diamond Property Recharge Basin Earthwork Project
- Construction of the Bolthouse Property Recharge Basin Earthwork Project. Estimating completion of the project this fiscal year.
- Construction of the Bolthouse Property Conveyance Facilities including well conveyance pipelines, Enos Lane road crossing, interconnection with the Central Intake Pipeline and potential Goose Lake Channel pump station facility. Estimating completion of approximately fifty-percent (50%) of the project this fiscal year.
- Construction of the Bolthouse Property Well Drilling and Well Equipping for two recovery wells. Estimating completion of the drilling of one recovery well.
- Construction Management and Inspection for the above referenced projects including construction staking, daily field inspection, materials testing, and project management.

Total Estimated Budget for FY2022-23 is \$21,252,706.25.

Fiscal Year 2023-24

The work to be completed in FY2023-24 is anticipated to include the following:

- Completion of Engineering Design, Electrical Service Applications, and Permitting
- Completion of SCADA and PLC system design and hardware purchase
- Bid Phase Administration for the Diamond Property Well Drilling and Well Equipping for two recovery wells
- Bid Phase Administration for the Diamond Property interconnection pipeline to the RRBWSD-CVC Intertie Pipeline
- Bid Phase Administration for the Diamond Property water supply conveyance from the Strand Ranch North CVC Turnout including Stockdale Hwy road crossing
- Bid Phase Administration for the SCADA and PLC Programming project
- Completion of the Bolthouse Property Conveyance Facilities including well conveyance pipelines, Enos Lane road crossing, interconnection with the Central Intake Pipeline and potential Goose Lake Channel pump station facility.
- Completion of the Bolthouse Property Well Drilling and Well Equipping project.
- Construction of the Diamond Property Recharge Basin Earthwork Project. Estimating completion of this project this fiscal year.
- Construction of the Diamond Property Conveyance Facilities including well conveyance pipelines with a road crossing at Stockdale Hwy and a connection to the existing RRBWSD-CVC Intertie pipeline for return flows from the Diamond Property. Estimating completion of approximately 20% of the project this fiscal year.
- Construction of the Diamond Property Well Drilling and Well Equipping for two recovery wells. Estimating completion of the drilling for two wells this fiscal year.

- Construction of the Diamond Property water supply conveyance from the Strand Ranch North CVC Turnout including Stockdale Hwy road crossing. Estimating completion of approximately thirty-percent (30%) of the project this fiscal year.
- Construction Management and Inspection for the above referenced projects including construction staking, daily field inspection, materials testing, and project management.

Total Estimated Budget for FY2023-24 is \$14,747,221.45.

Fiscal Year 2024-25

The work to be completed in FY2024-25 is anticipated to include the following:

- Completion of the Diamond Property Conveyance Facilities including well conveyance pipelines with a road crossing at Stockdale Hwy and a connection to the existing RRBWSD-CVC Intertie pipeline for return flows from the Diamond Property.
- Completion of the Diamond Property Well Drilling and Well Equipping for two recovery wells. Estimating completion of the well equipping for two wells this fiscal year.
- Completion of the Diamond Property water supply conveyance from the Strand Ranch North CVC Turnout including Stockdale Hwy road crossing.
- Construction of the SCADA and PLC Programming System

Total Estimated Budget for FY2024-25 is \$8,557,839.30.

LIST OF EXHIBITS

- Exhibit A: Proposed Capital Budget
Exhibit B: Preliminary Project Schedule

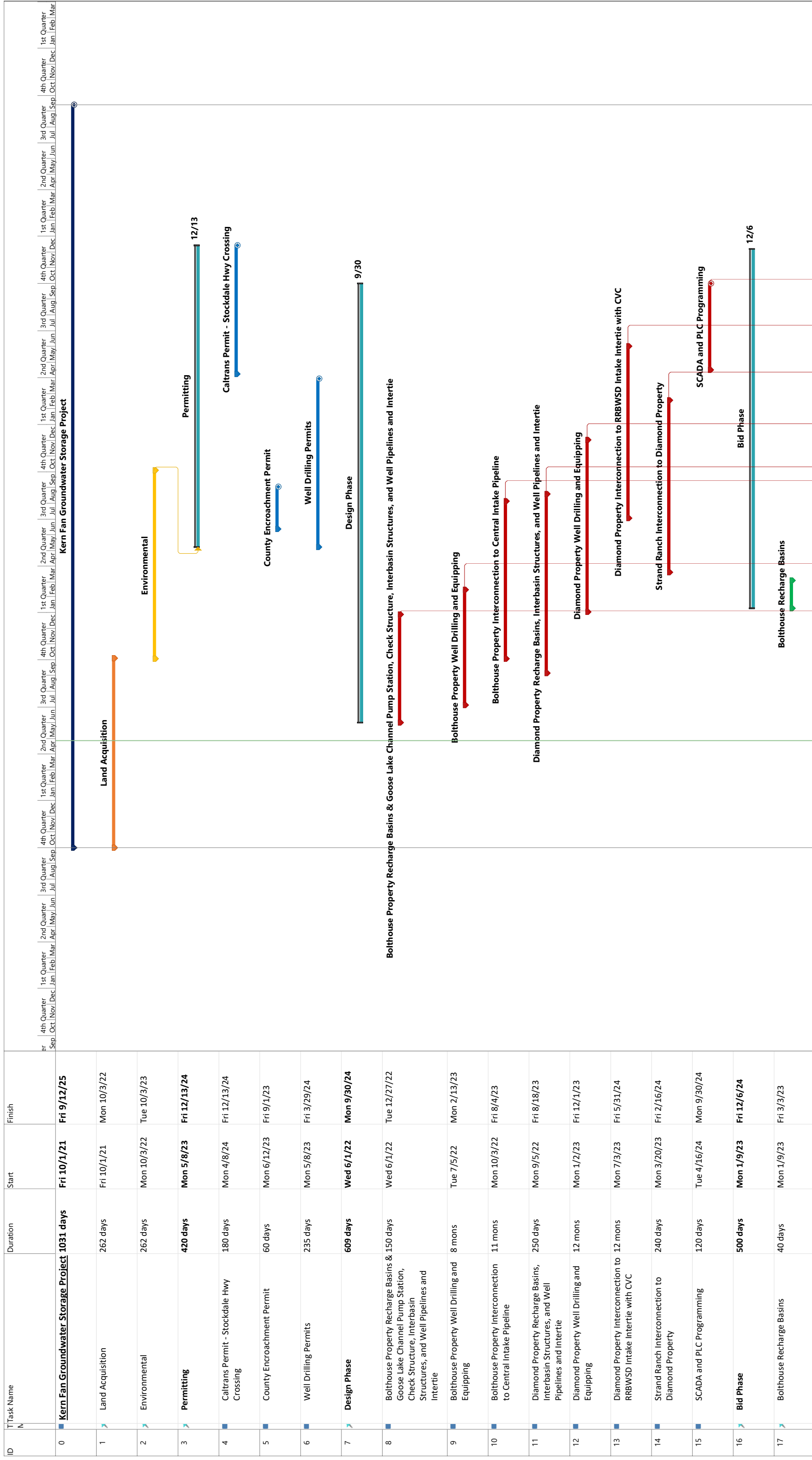
EXHIBIT A
Proposed Capital Budget

Groundwater Banking Joint Powers Authority

Proposed Capital Budget

Task No.	Task Description	Project Capital Cost	FY2022-23	FY2023-24	FY2024-25
1	Land Acquisition	\$13,000,000.00	\$13,000,000.00		
2	Engineering Design and Environmental Work	\$1,752,350.00	\$1,402,350.00	\$350,000.00	
3	Construction Management and Inspection	\$2,170,000.00	\$613,668.75	\$1,295,201.95	\$261,129.30
4	Communications Design	\$250,000.00	\$100,000.00	\$150,000.00	
5	Bolthouse Property 200 acre Recharge Earthwork	\$2,563,950.00	\$2,563,950.00		
6	Bolthouse Property 200 acre Conveyance Facilities	\$5,145,475.00	\$2,572,737.50	\$2,572,737.50	
7	Bolthouse Property 200 acre Well Drilling (Two Wells)	\$2,297,475.00	\$1,000,000.00	\$1,297,475.00	
8	Bolthouse Property 200 acre Well Equipping (Two Wells)	\$3,048,710.00		\$3,048,710.00	
9	Diamond Property 160 acre Recharge Earthwork	\$1,898,622.00		\$1,898,622.00	
10	Diamond Property 160 acre Conveyance Facilities	\$2,435,000.00		\$487,000.00	\$1,948,000.00
11	Diamond Property 160 acre Well Drilling (Two Wells)	\$2,297,475.00		\$2,297,475.00	
12	Diamond Property 160 acre Well Equipping (Two Wells)	\$3,048,710.00			\$3,048,710.00
13	Strand Ranch Intertie with Stockdale Hwy Crossing	\$4,500,000.00		\$1,350,000.00	\$3,150,000.00
14	SCADA and PLC Programming	\$150,000.00			\$150,000.00
	Total Budget:	\$44,557,767.00	\$21,252,706.25	\$14,747,221.45	\$8,557,839.30

EXHIBIT B
Preliminary Project Schedule



ID	Task Name	Duration	Start	Finish
18	Bolthouse Goose Lake Channel Pump Station, Check Structure, Interbasin Structures, and Well Pipelines and Intertie	40 days	Mon 1/9/23	Fri 3/3/23
19	Bolthouse Well Drilling and Equipping	40 days	Tue 4/11/23	Mon 6/5/23
20	Bolthouse Interconnection Pipeline with Central Intake	40 days	Tue 9/19/23	Mon 11/13/23
21	Diamond Recharge Basins, Interbasin Structures, and Well Pipelines	40 days	Mon 10/16/23	Fri 12/8/23
22	Diamond Well Drilling and Equipping	40 days	Mon 1/8/24	Fri 3/1/24
23	Diamond Interconnection to RRBWSD-CVC Intertie Pipeline	40 days	Wed 7/17/24	Tue 9/10/24
24	Strand Ranch Interconnection to Diamond Property	40 days	Wed 4/17/24	Tue 6/11/24
25	SCADA and PLC Programming	40 days	Mon 10/14/24	Fri 12/6/24
26	Construction Phase	618 days	Wed 5/3/23	Fri 9/12/25
27	Bolthouse Recharge Basins	180 days	Wed 5/3/23	Tue 1/9/24
28	Bolthouse Goose Lake Channel Pump Station, Check Structure, Interbasin Structures, and Well Pipelines and Intertie	270 days	Wed 5/3/23	Tue 5/14/24
29	Bolthouse Well Drilling and Equipping	365 days	Mon 9/4/23	Fri 1/24/25
30	Bolthouse Interconnection Pipeline with Central Intake	270 days	Mon 1/15/24	Fri 1/24/25
31	Diamond Recharge Basins	180 days	Mon 3/4/24	Fri 11/8/24
32	Diamond Well Drilling and Equipping	330 days	Mon 6/3/24	Fri 9/5/25
33	Diamond Interconnection to RRBWSD-CVC Intertie Pipeline	180 days	Mon 12/30/24	Fri 9/5/25
34	Strand Ranch Interconnection to Diamond Property	250 days	Mon 9/23/24	Fri 9/5/25
35	SCADA and PLC Programming	180 days	Mon 10/30/24	Fri 9/5/25

Bolthouse Goose Lake Channel Pump Station, Check Structure, Interbasin Structures, and Well Pipelines and Intertie

Legend:

- Task: Blue bar
- Split: Dotted line
- Milestone: Diamond
- Summary: Blue bar with diamond
- Project Summary: Blue bar with diamond
- Inactive Task: Grey bar
- Inactive Milestone: Grey diamond
- Inactive Summary: Grey bar with diamond
- Inactive Manual Task: Grey bar
- Manual Summary: Blue bar with diamond
- Manual Summary Rollup: Blue bar with diamond
- Duration-only: Blue bar
- Manual Summary: Blue bar with diamond
- Manual Task: Blue bar
- Start-only: Blue bar
- Finish-only: Blue bar
- External Tasks: Blue bar
- External Milestone: Blue diamond
- Deadline: Blue bar with diamond
- Path Successor Milestone Task: Blue bar with diamond
- Path Successor Normal Task: Blue bar
- Critical: Red bar
- Path Successor Summary Task: Blue bar with diamond
- Critical Split: Red bar with diamond
- Progress: Green bar
- Manual Progress: Blue bar

Project: Kern Fan Groundwater
Date: Wed 4/27/22