



Monthly Progress Report –November 2021

Terrace Lakes Water Company

Project Name: *Terrace Lakes ECWAG Project*

Progress Date: *Through November 19, 2021*

Project No.: *245.0040*

Contract: *\$219,900*

Prepared By: *Tim Farrell, P.E., Sam Nieslanik, E.I.T.*

Purpose: *Discuss project progress and expenses to date*

General Project Status

This project report reviews the Terrace Lakes ECWAG Project monthly progress and outlines action items required to meet overall project objectives. Budgetary and financial analysis on the project will be presented to Terrace Lakes Water Company (TLWC) Board on a routine basis. The progress report will be sent to Dennis Largent monthly and presented to TLWC Board as requested.

Project Objectives: Drill and equip a new groundwater source of supply to replace declining capacity in Well No. 5 associated with March 2020 earthquake.

Project Phasing:

The project will be completed in-line with the following phases:

Phase 1: Obtain Regulatory Approvals

- Complete IDWR Transfer Application to add new POD to existing water rights.
- Obtain Easement/Lease Agreement with Terrace Lakes Recreation Ranch LLC
- Idaho Power Company Agreement for Service Upgrades
- Execution of Easement/Lease Agreement (legal counsel approval)

Phase 2: Well and Facility Design

- Complete IDEQ Well Site Evaluation and Well Preliminary Engineering Report
- Complete IDEQ Facilities, Transmission, and Controls Preliminary Engineering Report
- Obtain IDEQ Construction Approval for Well No. 7 and associated Facilities

Phase 3: Facility Construction

- Phase 3a: Well Drilling, Production Testing, Water Quality Sampling
- Phase 3b: Facility Construction - Commissioning, Startup and Testing

Phase 4: Project Closeout

- Well Completion Report
- Operation and Maintenance Manual
- As-built Drawings
- Engineer of Record Certification
- IDEQ Request to Serve Public

Work Completed To Date (Since Last Progress Report)

A summary of work completed by Mountain Waterworks through the month of November 2021 is provided below.

- Century West Engineering (Trindera) was put under contract November 8th.
- Project kickoff with Givens Pursley LLP, Michael Lawrence (Thomas Dvorak unable to attend), on November 9th.
- IDEQ issued construction approval on Well No. 7 Plans and Specifications on November 9th.
 - o Cannot bid well without water right transfer approval and well site easement.
- Base civil and mechanical files sent to Keltic Engineering and Century West Engineering November 12th.
 - o Civil and mechanical design is approximately 90-95% complete.
- Sawtooth Land Survey conducted field work on November 15th.
- The Well No. 7 Facilities PER was submitted to IDEQ on November 18th.
- Idaho Department of Water Resources reviewed the Water Right Transfer and was put on public notice December 1st.
 - o December 20th is the last day for public protest.

Work In Progress:

- Water right transfer
- Well site easement.
 - o Waiting on metes and bounds from Sawtooth (mid-December)
 - o Tim Farrell and Rolly Woolsey to meet with Terrace Lakes Recreation Ranch.
- Send Well No. 7 out for quotations pending approval of water right transfer and well site easement.
- IDEQ review of Well No. 7 Facilities, Transmission, and Controls PER.
- Well No. 7 Facilities, Transmission, and Controls Structural design.
 - o To be ready for MWW review end of December.
- Well No. 7 Facilities, Transmission, and Controls Electrical design.
 - o 75% complete by end of December

Engineering Budget

Description	Budget	To Date Budget Spent	Remaining Budget	Percent Complete
Basic Engineering Services	\$152,400	\$58,325	\$94,075	38%
Inspection Services (RPR):	\$50,000	\$0	\$50,000	0%
Additional Services:	\$17,500	\$12,731	\$4,219	73%
Engineering Services Total	\$219,900	\$71,057	\$148,843	32%

Mountain WATERWORKS

Project Budget:

Item No.	Description	Budget	Forecast	Billed To Date	Remaining
CONSTRUCTION ESTIMATE					
1	Land Acquisition, Legal, Easements	\$ 25,000	\$ 25,000	\$ -	\$ 25,000
2	Test Well (300 ft 6-inch)	\$ 50,000	\$ -	\$ -	\$ -
3	Idaho Power Electrical Service	\$ 25,000	\$ 25,000	\$ -	\$ 25,000
4	Production Well Drilling	\$ 200,000	\$ 250,000	\$ -	\$ 250,000
5	Well Pump, Motor, and Pitless Unit	\$ 50,000	\$ 50,000	\$ -	\$ 50,000
6	Mechanical Piping (4-inch DI)	\$ 35,000	\$ 35,000	\$ -	\$ 35,000
7	Transmission Piping (4-inch C900 PVC)	\$ 75,000	\$ 75,000	\$ -	\$ 75,000
8	Well House and Site Work	\$ 125,000	\$ 125,000	\$ -	\$ 125,000
9	Communication and Controls System	\$ 50,000	\$ 50,000	\$ -	\$ 50,000
10	Electrical Programming & Integration (Owner Provided Service)	\$ 25,000	\$ 25,000	\$ -	\$ 25,000
11	Survey (Owner Provided Service)	\$ 15,000	\$ 15,000	\$ 338	\$ 14,663
12	Well Production & Water Quality Testing (Owner Provided Service)	\$ 20,000	\$ 20,000	\$ -	\$ 20,000
Construction Subtotal		\$ 695,000	\$ 695,000	\$ 338	\$ 694,663
13	Construction Contingency	\$ 112,000	\$ 112,000	\$ -	\$ 112,000
Construction Total		\$ 807,000	\$ 807,000	\$ 338	\$ 807,000
ENGINEERING					
14	Basic Engineering Services	\$ 152,400	\$ 152,400	\$ 58,325	\$ 94,075
15	Inspection Services (RPR)	\$ 50,000	\$ 50,000	\$ -	\$ 50,000
16	Additional Services	\$ 17,500	\$ 17,500	\$ 12,731	\$ 4,769
Engineering Subtotal		\$ 219,900	\$ 219,900	\$ 71,057	\$ 148,843
PROJECT ESTIMATE					
PROJECT TOTAL		\$1,026,900	\$1,026,900	\$ 71,394	\$ 955,506

Engineering and Construction Schedule

Engineering Schedule

Engineering Deliverables	Completion Date
Well No. 7 PER, WSE, Plans and Specs	Dec 2021
Additional Point of Diversion	Jan 2022
Well No. 7 Facilities, Transmission, and Controls PER	Jan 2022
Well No. 7 Facilities, Transmission, and Controls Plans and Specs	Apr 2022
Well Completion Report	Aug 2022
As-built Drawings	Aug 2023
Operation and Maintenance Manual	Aug 2023
Engineering Certification	Aug 2023

Construction Schedule

Construction Activity	Start Date	End Date
Idaho Power Service	Aug 2021	Jun 2022
<u>Well Drilling</u>	<u>Jun 2022</u>	<u>Aug 2022</u>
Well No. 7 Facilities, Transmission, and Controls	Jun 2022	Jun 2023
Startup & Testing	Jun 2023	Jun 2023
Programming and Integration	Jun 2023	Jul 2023
Funding Closeout	Jun 2023	Sep 2023

Action Item Log:

ACTION ITEMS	RESPONSIBLE PARTY	DATE RESOLVED
Review and Sign Survey and Structural Engineering Proposal	Terrace Lakes Water Company	10/29/2021
Review and Sign Idaho Power Consent Form	Terrace Lakes Water Company	10/27/2021
Review Well No. 7 Well Site Evaluation, Preliminary Engineering Report, Plans and Specifications	Terrace Lakes Water Company	10/27/2021
Hire third party attorney to approve Easement/Lease language.	Terrace Lakes Water Company	11/9/2021
Submit Well No. 7 Facilities, Transmission, and Controls PER to IDEQ.	Mountain Waterworks	11/18/2021
Execute Electrical Engineering Contract	Mountain Waterworks	11/8/2021
Finalize Well No. 7 Bid Package	Mountain Waterworks	
Finalize Well No. 7 Facilities, Transmission, and Controls Plans and Specifications	Mountain Waterworks	
Tim Farrell and Rolly Woolsey to meet with Terrace Lakes Recreation Ranch to discuss well site easement	Mountain Waterworks.	
Discuss electrical programming and integration with DC Engineers.	Mountain Waterworks	