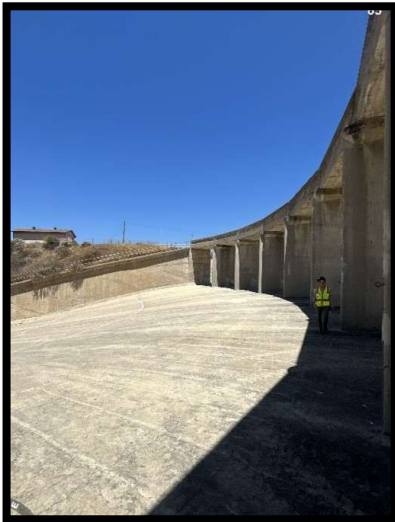
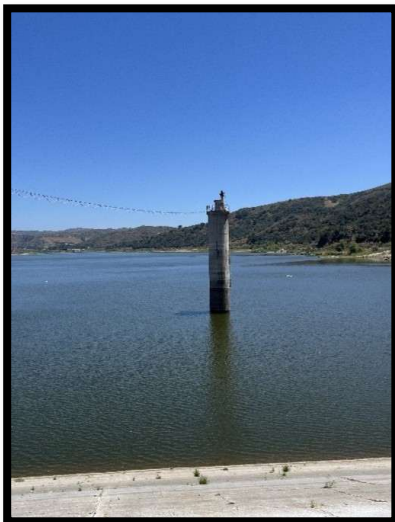


Annual Surveillance Report January 2025 to December 2025 for Santiago Creek Dam DSOD Dam No. 1029-006

Unincorporated Orange County, California



Submitted to:
Irvine Water District
Dams & Storage
15600 Sand Canyon Avenue
Irvine, CA 92618



Prepared by:
GEI Consultants Inc.
10301 Meanley Drive, Suite 200
San Diego, CA 92131
(760) 613-1429



May 1, 2026
GEI Project No. 2305575



Consulting May 1, 2026
Engineers and GEI Project No. 2305575
Scientists

Mr. Jacob Moeder,
Engineering Manager – Dams & Storage
Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618

**Re: Santiago Creek Dam, DSOD Dam No. 1029-006,
Annual Surveillance Report from January 2025 to December 2025**

Dear Mr. Moeder:

GEI Consultants, Inc. (GEI) is pleased to submit this Annual Surveillance Report for Santiago Creek Dam covering the period from January 2025 to December 2025. This report is part of the scope of work described under our Professional Service Agreement between Irvine Ranch Water District (District) and GEI Consultants Inc. (GEI) dated October 25, 2023.

We appreciate this opportunity to provide the District with our services. Please contact Nichole Tollefson at ntollefson@geiconsultants.com or Rich Sanchez at rsanchez@geiconsultants.com with any questions.

Sincerely,

GEI CONSULTANTS, INC.

A handwritten signature in blue ink, appearing to be "Richard Sanchez". A date stamp "04/2026" is visible over the signature.

Richard Sanchez, P.E.
Principal Engineer

A handwritten signature in blue ink, appearing to be "Nichole Tollefson".

Nichole Tollefson, P.M.P.
Senior Engineer

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Acronyms and Abbreviations

AF	acre-feet
BM	Bench Mark
District	Irvine Ranch Water District
Districts	Irvine Ranch Water District and Serrano Water District
DSOD	State of California, Department of Water Resources, Division of Safety of Dams
CNC	CNC Engineering
El, EL, Elev	elevation
E(+)/W(-)	East-West
ft	feet
GEI	GEI Consultants, Inc.
gpm	gallons per minute
H:V	horizontal to vertical
ILP	Irvine Lake Pipeline
NAVD 88	National American Vertical Datum of 1988
NGS	National Geodetic Survey
NGVD 29	National Geodetic Vertical Datum of 1929
No.	number
NOAA	National Oceanic and Atmospheric Administration
N(+)/S(-)	North-South
P.E.	Professional Engineer
Piez	Piezometer
Ref.	Reference
W.S.	Water Surface
YR	year

1.0 Introduction and Background

1.1 General

This report presents the results of the dam safety monitoring and surveillance program for Santiago Creek Dam, conducted by the Irvine Ranch Water District (IRWD) and GEI Consultants, Inc. (GEI) from January 2025 to December 2025. This report includes a review of previous surveillance reports, a compilation of field measurements, maintenance reports, observations, and conclusions related to the general condition and safety of the dam. In addition, recommendations are provided for continued operation, surveillance, and monitoring of the dam. This report is submitted as part of the jurisdictional requirements of the State of California, Department of Water Resources, Division of Safety of Dams (DSOD).

Santiago Creek Dam is currently going through a design phase for a dam enlargement and outlet/spillway improvement project. Project construction is scheduled to begin in 2027. IRWD submitted an enlargement application to DSOD on December 17, 2021 and a separate application in October 2025 for embankment improvements. The project consists of constructing a new inclined outlet intake structure, a new spillway, new monitoring instrumentation, and embankment improvements that include adding a filter drain system and berm on the downstream side of the dam.

Table 2 presents field measurements of piezometer water levels and reservoir water surface elevations since 2007. Table 3 presents elevations of Benchmark BM-0 and Survey Monuments BM-1 through BM-5 since 1989. Table 4 presents net horizontal displacements since 1994 for Survey Monuments BM-1 through BM-5, both in the North-South and East-West Directions.

Figures 2 through 7 are graphs representing piezometer levels and reservoir water surface elevations for the 2-year period between January 2024 and December 2025. Figures 8 through 13 are graphs representing the historical (10-year) piezometer levels and reservoir water surface elevations. Figures 14 and 15 represent the elevations of the survey monuments at the dam. Figure 16 represents the historical net horizontal displacements for the survey monuments in the North-South direction, while Figure 17 represents the historical net horizontal displacements for the survey monuments in the East-West direction. The historical plots reflect long-term trends and overall performance of the dam and reservoir. The use of long-term and short-term plots help to identify any adverse trends or significant deviations more easily in the data.

In July 2002, a survey was performed to determine the vertical conversion factor from the original construction datum to the National American Vertical Datum of 1988 (NAVD 88). That survey showed that a vertical conversion factor of 1.90 feet is to be added to elevations from the original construction datum to obtain NAVD 88 elevations. Although the original construction

datum had been assumed to be North Geodetic Vertical Datum of 1929 (NGVD 29), the 1.90-foot vertical conversion factor is to be used in place of the National Oceanic and Atmospheric Administration (NOAA) National Geodetic Survey (NGS) online program "VERTCON" used previously to convert elevations, since there is no confirmation that the original construction datum was NGVD 29. Therefore, elevations referenced to the original construction datum are indicated simply as "construction datum" (AECOM, 2016).

In July 2023, IRWD developed a Dam Safety Program (IRWD, 2023) that includes principles and guidelines for Risk Informed Decision Making (RIDM) for its portfolio of dams. This report has been updated to follow the guidelines in the Dam Safety Program.

1.2 Dam and Reservoir

Santiago Creek Dam is a rolled-and-compacted earthfill dam that was completed in 1933 on Santiago Creek and Limestone Wash. The dam is 136 feet high with a dam crest length of 1,425 feet and a crest width of 10 feet. The crest of the dam is at Elevation 810.0 ft (construction datum) or Elevation 811.9 ft (NAVD 88). All elevations presented in this report are referenced to NAVD 88 unless "construction datum" is noted. Figure 1A depicts the general plan view of the dam, spillway, and outlet tower. The upstream face has a slope of 1.5H:1V (Horizontal:Vertical) above Elevation of 799.4 ft, and 2.5H:1V below Elevation of 799.4 ft. The downstream face has a slope of 1.5H:1V above Elevation 791.9 ft, and 2H:1V below Elevation of 791.9 ft. As used in this report, the left and right designations are as viewed looking downstream.

The dam is reported as being founded on bedrock for the upstream one-third of the dam, beneath the impervious upstream zone, and on alluvium under the central and downstream shell area (Figures 1B through 1D).

As documented in *"Dams within the Jurisdiction of the State of California"* (DSOD, 2000), the reservoir has a drainage area of 63.1 square miles, a reservoir area of 650 acres, and a storage capacity of 25,000 acre-feet at the spillway crest.

Currently the District is operating the reservoir under an interim winter seasonal restriction at Elevation 762.5 ft (construction datum), 27.5 feet below the existing spillway crest, to mitigate the potential of future spillway flows and prevent spillway damage prior to fixing the spillway.

A reservoir caretaker's house is located immediately above and away from the right abutment of the dam promoting regular monitoring of the dam and associated facilities but has recently left unoccupied. A rain gauge is located near the caretaker's house that is to collect rainfall data.

1.3 Spillway

The open-channel spillway is located on the left abutment of the dam. The spillway crest is at Elevation of 790.0 ft (construction datum) or Elevation 791.9 ft (NAVD 88), providing 20 feet of total freeboard. The reinforced-concrete spillway consists of an approach apron, control ogee structure, chute, and flip-bucket. According to a report by AECOM (2016), the spillway was extensively modified in late 1969 and/or early 1970 after being damaged by high spillway discharges from the February 1969 flood event. The original waste channel and lower chute were removed due to damage, and the flip-bucket was added at the end of the remaining chute. A portion of the left wall of the original spillway channel was left in place immediately downstream of the flip-bucket on the left abutment.

There is an 8-foot-deep concrete cutoff wall at the upstream end of the spillway (Spillway Station 0+00), and shallower cutoffs at Spillway Stations 1+05, 2+00, 2+75, and 3+10. A subdrain system consisting of a tile drain surrounded by stone was placed downstream of the cutoff at Spillway Station 0+00, upstream of the other cutoffs, and was daylighted through the spillway chute at Spillway Station 3+14.

1.4 Outlet Works

The outlet works consist of a 135-foot-high circular reinforced concrete outlet tower with gated intakes at eight different elevations spaced at 10-foot intervals, a reinforced concrete-encased 60-inch welded steel outlet conduit, and a downstream control house where reservoir discharges can be released in the event of an emergency. The lower four intake gates have been inoperable due to siltation for more than 30 years, while the remaining intake gates are operable. The outlet conduit is 592 feet long and it splits near the downstream toe of the dam into a 36-inch diameter main pipe and a 30-inch diameter emergency release pipe (blowoff). Water moving through the outlet conduit is controlled by the main valve located in the control house which is normally kept open to supply water through the Irvine Lake Pipeline (ILP) to the District's customers. The emergency release pipe (blowoff) is controlled by a diverter valve, which is normally kept closed. It can be opened in an emergency to release water into the streambed immediately downstream of the control house.

The District operated the outlet gate valves at the outlet tower, and downstream valves at the control house and emergency blowoff valve during the DSOD inspection on May 6, 2025. The District provided a Dam Outlet Valve Exercising Log which states the outlet gate valves at elevations 750, 740, 730 and 720 feet and downstream outlet valves were exercised on March 26, 2024. The exercising log is contained in Table B-1 in Appendix B of this report.

2.0 Field Measurements

2.1 General

There are currently 22 open-well piezometers, one benchmark and five survey monuments being monitored at Santiago Creek Dam. District personnel measure the piezometric levels in the piezometers and the reservoir water level weekly and immediately following significant seismic events (significant defined as producing a peak ground acceleration of 0.3g or greater). The benchmark and survey monuments have been typically surveyed annually by a licensed surveyor under contract with the District. Precipitation is measured at the on-site rain gauge located near the caretaker's house. Any seepage through the dam or its foundation are through the sub-surface alluvial materials and not measured. No seepage has ever been observed on the downstream slope face or toe area of the dam. A Site and Instrumentation Plan showing the layout of the dam and appurtenances, as well as the locations of the piezometers and survey monuments, is shown in Figure 1A. Throughout this report, instrumentation measurements and readings that remained within historical limits and followed historical trends will be classified as normal. Historical limit is classified as the range between maximum and minimum water levels within the past ten years.

Based on the ten-year historical data from January 2015 through December 2025, the reservoir water surface elevation varied from a minimum Elevation of 735.6 feet to a maximum Elevation of 779.9 feet. During the 2025 review period, the reservoir water surface elevation varied from a minimum Elevation of 746.8 feet to a maximum Elevation of 759.0 feet (32.9 feet below the spillway crest). The reservoir elevations that were read on the same dates as the piezometers are included in Table 2 that covers the period from January 2007 to December 2025. Rainfall data is included in Table 2 and Figures 2 through 13.

All piezometers and survey monuments will be replaced during the upcoming dam modification project scheduled to begin during 2027.

2.2 Piezometers

An open-well piezometer is a small-diameter well used mainly to measure piezometric water levels within subgrades. It is typically installed as a casing in a vertical borehole and has a discrete perforated zone near its bottom to enable monitoring of changes in groundwater levels within that zone. The borehole is filled with permeable sandy material across the vertical zone corresponding to the sensing zone of the piezometer. More than one piezometer can be installed within a single, larger-diameter borehole. These groups of piezometers are often referred to as multi-stage or nested piezometers. The tip of each piezometer is placed at its own discrete depth interval.

The 22 open-well piezometers being monitored at Santiago Creek Dam are labeled as R-1 Upper-Middle-Lower, R-2 Upper-Middle-Lower, R-3 Upper-Middle-Lower, R-4 Upper-Lower, R-5 Upper-Lower, R-6 Upper-Lower, R-7 Upper-Lower, No. 1, No. 2, No. 3, No. 4, and No. 5. The seven piezometers R-1 through R-7 with an "Upper," "Middle," or "Lower" designation are nested piezometers. Piezometers No. 1 and No. 2 were installed in 1964, while Piezometers No. 3, No. 4, and No. 5 were installed in 2011. Piezometers R-1 through R-6 were installed in 1969, while Piezometer R-7 was installed in 1990.

The piezometers at the site were most recently cleaned in June 2023, when IRWD contracted Genterra Consultants, Inc. A copy of the cleaning report is included as Appendix D.

The piezometric water levels in the piezometers were generally measured on a weekly basis during the current 2025 review period. Figures 2 through 7 are plots representing the piezometer levels and reservoir water surface levels during the past two years (January 2024 through December 2025), while Figures 8 through 13 are plots representing the historical piezometer water levels and reservoir levels since 2015. Table 2 lists piezometer water levels data since 2007. The top elevations of the monitored piezometers were surveyed on May 21, 2012, and Table 2 lists the pre- and post-May 2012 survey of the top elevations and the new total depth of each piezometer.

Table 1 shows the maximum and minimum water levels recorded during the current review period, as well as the historical range for each piezometer. Outlier readings with isolated spikes or drops were omitted and were not included in the maximum and minimum water level range. Per IRWD’s Dam Safety Program (DSP) guidelines Section 3.1.2, Threshold and Action Levels for Santiago Creek Dam will be updated upon completion of the ongoing dam modification engineering studies, therefore Alarm Levels were not included in the DSP at this time.

Table 1. Piezometers – Maximum and Minimum Water Level Ranges

Piezometer	Tip Elevation (ft)	2015-2025 Range (ft)	2025 Range (ft)	Comment
R-1 Upper	733.4	733.4 – 735.9	733.6 – 733.9	
R-1 Middle	701.4	701.5 – 702.5	701.5 – 702.5	New historical max.
R-1 Lower	669.9	674.2 – 692.2	674.2 – 692.1	New historical min.
R-2 Upper	711.7	710.7 - 713.7	711.4 – 711.7	Dry
R-2 Middle	670.2	670.8 – 673.3	670.8 – 672.5	
R-2 Lower	654.7	655.7 – 667.2	655.7 – 666.7	New historical min.
R-3 Upper	737.5	736.1 – 738.6	738.1 – 738.3	
R-3 Middle	690.0	750.3 – 752.3	751.0 – 751.7	
R-3 Lower	676.0	673.0 – 676.9	676.0 – 676.5	
R-4 Upper	667.1	684.9 – 698.8	687.1 – 687.4	
R-4 Lower	655.6	661.4 – 665.6	664.6 – 665.6	
R-5 Upper	676.9	676.8 – 678.2	677.3 – 677.6	
R-5 Lower	654.4	696.9 – 726.8	708.3 – 712.0	
R-6 Upper	700.0	698.7 – 714.0	710.2 – 714.0	
R-6 Lower	674.5	672.7 – 681.7	672.7 – 679.4	New historical min.
R-7 Upper	677.2	676.9 – 680.7	678.9 – 680.7	
R-7 Lower	664.7	663.4 – 669.8	667.6 – 668.1	
No. 1	695.3	700.8 – 706.5	703.8 – 705.2	

Piezometer	Tip Elevation (ft)	2015-2025 Range (ft)	2025 Range (ft)	Comment
No. 2	677.7	678.1 – 680.9	678.5 – 680.4	
No. 3	654.0	657.6 – 664.8	657.6 – 659.2	
No. 4	654.0	659.1 – 664.0	659.9 – 660.4	
No. 5	655.5	663.3 – 665.1	664.1 – 664.7	

Piezometer R-1 is located on the dam crest near Station 6+00. Figures 2 and 8 represent the 2-year and the historical water levels measured in piezometers R-1 Upper, R-1 Middle, and R-1 Lower. Piezometer R-1 Upper, installed in the pervious shell material, had slight fluctuations but readings mostly stayed near the tip elevation. Piezometer R-1 Middle has its tip near the base of the pervious shell material, while piezometer R-1 Lower was installed in the underlying bedrock. Piezometer R-1 Middle had a slight response to reservoir water levels during the review period but generally remained near the tip elevation. R-1 Middle reached a historical maximum of 702.5 ft in February 2025, however the maximum was still measured about 1 foot above the tip elevation. Piezometer R-1 Lower fluctuated slightly with reservoir water level changes during the review period with a potentially erroneous reading on October 23 when the water elevation dropped about 10 feet.

Piezometer R-2 is located on the dam crest near Station 2+50. Figures 3 and 9 represent the 2-year and the historical piezometric levels measured in Piezometers R-2 Upper, R-2 Middle, and R-2 Lower. Piezometer R-2 Upper was installed in the pervious shell material and was dry during the review period. Piezometer R-2 Middle was installed in the alluvium foundation; the water level during the 2025 period was consistent with past historic levels. Piezometer R-2 Lower was installed in the foundation bedrock; the water level for this during the 2025 period was consistent with past historic levels other than reaching a 10-year low in December, likely due to the consistently low reservoir levels.

Piezometer R-3 is located on the dam crest near the right abutment at approximately Station 9+50. Figures 4 and 10 represent the 2-year and the historical piezometric levels measured in piezometers R-3 Upper, R-3 Middle, and R-3 Lower. The 2012 R-3 Upper readings that were recorded above the reservoir level are considered erroneous; this piezometer has been dry or providing readings close to the tip historically. Piezometer R-3 Upper is installed in terrace materials in the right abutment and had a slight response to reservoir water levels during the review period. Piezometer R-3 Middle was also installed in terrace materials and its water level generally remained essentially at Elevation 751 ft throughout the review period which is within historic levels, however during the review period the levels in R-3 lower increased slightly since September despite the reservoir elevation lowering. This piezometer has historically recorded levels above the reservoir stage. Genterra attempted to clean out the piezometer during the 2022 review period and stated that they believe the slotted section is clogged (Appendix D). Based on the recent cleaning and the readings during the review period, we believe that piezometer R-3 Middle has some blockage or a bend in the standpipe. Further details are provided in section 2.2.1. It is recommended that the District stop reading R-3 Middle until it is replaced in the dam modification project. Piezometer R-3 Lower was installed in the foundation bedrock; the level

for this piezometer varied from dry to 0.5 ft throughout the review period and was within historic measurements.

Piezometer R-4 is located on the downstream bench of the dam, downstream of piezometer R-2. Figures 3 and 9 represent the 2-year and the historical water levels measured in piezometers R-4 Upper and R-4 Lower. Piezometer R-4 Upper was installed in foundation alluvium and was cleaned in July 2015, resulting in the water levels in this piezometer dropping by approximately 10 ft. After the cleaning, the water levels in piezometer R-4 Upper remained between an elevation of 682 ft and 688 ft. The piezometer had a slight response to the reservoir water level and remained within historical ranges during the review period. Piezometer R-4 Lower is installed in the underlying bedrock and had a slight fluctuation and remained within historical ranges.

Piezometer R-5 is located on the downstream bench of the dam, downstream of piezometer R-1. Figures 2 and 8 represent the 2-year and the historical water levels measured in piezometers R-5 Upper and R-5 Lower. Piezometer R-5 Upper was installed in the alluvium foundation and only fluctuated 0.3 ft during the review period. Piezometer R-5 Lower was installed in bedrock. Based on a review of historical data, R-5 Lower is showing reaction to changes in the reservoir level. This piezometer has been bailed in the past due to potential blockage and for the last ten years the levels have been fluctuating above and below elevation 710 ft depending on the reservoir level (Figure 8). More details of the maintenance work is provided in section 2.2.1.

Piezometer R-6 is located on the dam crest near Station 5+00. Figures 5 and 11 represent the 2-year and the historical water levels measured in piezometers R-6 Upper and R-6 Lower. Piezometer R-6 Upper is installed in the pervious shell material. After the 2015 cleaning of this piezometer, the levels were consistently near elevation 700 ft until May 2023. R-6 Upper water levels have increased in response to the increase in reservoir water level between 2023 and 2024 and has stayed at elevated level throughout the 2025 review period with a slight downward trend. The water levels in R-6 Upper appear to start leveling out starting in July 2024 due to the lowering of the reservoir water level. Piezometer R-6 Lower was installed in the alluvial bedrock foundation interface. The water level fluctuated within historical ranges other than a potentially erroneous reading in May 2025.

Piezometer R-7 is located on the downstream bench of the dam at approximately Station 3+50. Figures 6 and 12 represent the 2-year and the historical piezometric levels measured in Piezometers R-7 Upper and R-7 Lower. Piezometer R-7 Upper was installed in the pervious shell alluvial foundation interface. It was reported that the Districts performed maintenance cleaning and re-sounded the bottom of piezometer R-7 Upper to confirm the bottom elevation in 2017. Genterra also cleaned out piezometer R-7 Upper in 2022 and restored functionality. The water level in R-7 Upper fluctuated 1.8 feet between maximum and minimum during the 2025 review period. These levels and variation are consistent with past measurements for this piezometer.

Piezometer R-7 Lower was installed in the underlying bedrock. The water level in piezometer R-7 Lower only fluctuated 0.5 ft during the 2025 review period. Historically, measured levels in this piezometer showed slight fluctuations in relation to changes in the reservoir.

Piezometer No. 1 is located on the dam crest near Station 4+00, while piezometer No. 2 is located at the downstream toe of the dam, downstream of piezometer No. 1. Piezometer No. 1 was installed in the lower section of the pervious shell material, while piezometer No. 2 was installed in the foundation alluvium. Figures 6 and 12 represent the 2-year and the historical water levels measured in piezometers No. 1 and No. 2. The piezometric level in piezometer No. 1 responded slightly to the reservoir water surface elevation during the 2025 review period. The level in piezometer No. 2 remained at approximately near elevation 680 feet during the 2025 report and historically has shown slight response to the reservoir water surface elevation changes.

Piezometers No. 3, No. 4, and No. 5 are 2-inch-diameter piezometers that were installed along the downstream toe of the dam in 2011 in boreholes that had been drilled during the investigation into the alluvial deposits below the dam's foundation as part of the liquefaction evaluation performed by the District's consultant engineers. Figures 7 and 13 represent the 2-year and the historical water levels measured in piezometers No. 3, No. 4 and No. 5. During the 2025 review period, all three piezometers showed a slight response to the changes in the reservoir water surface elevation. All of these piezometers were within historical (Figure 13). The Districts performed maintenance cleaning of Piezometer No. 3 in 2017 resulting in no significant changes to the post 2017 piezometric levels.

Based on GEI's review, the piezometers responded to the increase in reservoir water surface level and based on the 2023 and 2024 rainfall and the reduced reservoir water surface level in 2025. Though many piezometers had slight increases, the water levels remained normal and consistent with historical levels. There are no indications of any adverse conditions at the dam embankment, abutments, or foundation. The data confirms the well-drained conditions within the dam which is also confirmed by the lack of any evidence of seepage at the dam.

2.2.1 Maintenance

Genterra performed maintenance cleaning of piezometers R-5 Lower, R-7 Upper, and R-3 Middle on October 19 and 20, 2022 (Appendix D). Genterra provided the following conclusions:

- Genterra believes that the maintenance cleaning was not successful in restoring the functionality of Piezometer R-5 Lower. Based on an existing bend in the standpipe and a significant amount of accumulated sediment inside the standpipe, it would be very challenging to remove accumulated sediment. It was recommended the piezometer be abandoned or readings should stop being taken to avoid misleading data.
- Piezometer R-7 Upper cleaning was successful and restored functionality. The piezometer was dry.

- Piezometer R-3 Middle was bailed and flushed multiple times and water in the standpipe continued to drain very slowly. Genterra believes the slotted section in Piezometer R-3 Middle is clogged to some extent. The District should stop reading R-3 Middle until it is replaced in the dam modification project.

Details of the instrumentation maintenance work are provided in Appendix D.

2.3 Survey Movements

There is a total of five survey monuments (BM-1 through BM-5) and one benchmark (BM-0) being monitored at Santiago Creek Dam. The survey monuments' elevations and net horizontal displacements are typically measured annually. Benchmark BM-0 is located on the right abutment of the dam. Survey Monuments BM-1, BM-2, and BM-3 are located along the crest of the dam. Survey Monument BM-4 is located on the right side of the bridge walkway over the spillway. Survey Monument BM-5 is located on the left side of the bridge walkway over the spillway. Figure 1A shows the locations of the survey monuments and benchmark.

GEI developed threshold and action levels, based on the analysis of historical data, in the horizontal direction (North-South and East-West) and vertical direction for all survey monuments. A threshold level of 0.36 inches and an action level of 0.6 inches were established for relative horizontal movement in the North-South (Downstream-Upstream) direction and for relative vertical movement between surveys. A threshold level of 0.6 inches and an action level of 0.84 inches were established for relative horizontal movement in the East-West (Right-Left) direction between surveys. An additional threshold level of 1-inch total horizontal displacement was included for BM-5 in the North-South (Downstream/Upstream) direction. The Green Alarm, Yellow, and Red Alarm levels were used for the survey monuments. The survey data during the 2025 review period was assessed using these alarm levels. The required response for each alarm level follows the guidelines outlined in Table 2 of Guideline No. 4 (Seepage & Piezometer Monitoring) and Table 2 of Guideline No. 6 (Movement Monitoring) in the Dam Safety Program.

Surveys of the monuments' elevations along with a determination of the net horizontal displacements of the survey monuments for the 2025 review period were performed on October 10, 2025. The survey report is provided in the Appendix of this report. Graphical plots representing the survey monuments' elevations since 1989 are presented in Figures 14 and 15. Table 3 lists the elevation data of the survey monuments since 1989.

Surveys to measure the net horizontal displacements of the survey monuments began in 1994. Graphical plots representing the monuments' net horizontal displacements since 1994 are presented in Figures 16 and 17. Table 4 lists the monuments' net horizontal displacement data since 1994.

The vertical movement data (Table 3) of the survey monuments indicate movement has all been within Alarm Level I. The horizontal movement in the north-south and west-east directions for BM-1 through BM-4 were all in Green Alarm during the review period. Based on the data it appears ambient temperatures and the different reservoir water levels during the surveys could be contributing to the slight variations in the survey measurements. The net horizontal displacement for BM-5 is up to approximately 0.8 inches in the upstream direction since 1994, which places it at Yellow Alarm. The horizontal movement in the East-West direction for BM-5 was in Red Alarm during the review period. Based on the historical graph (Figure 17) there is a small incremental trend of movement for BM-5 in the upstream direction. This small movement could be partially attributed to the left abutment sloughing of weathered material in the vicinity of this monument. This small amount of movement will be monitored and is not considered a problem at this time, especially considering the Districts are moving forward with plans for a major rehabilitation of the spillway, including addressing the left abutment sloughing, in the coming years.

Based on GEI's review of the historical data, the horizontal and vertical movements are minimal and within acceptable tolerances. There are no significant movements or signs of instability.

2.4 Dam Crest Crack

On October 7, 2024, IRWD staff provided a tour of Santiago Creek Dam and noticed a crack along the dam crest. The District reviewed previous annual surveillance reports by GEI, DSOD inspection reports, Serrano Water District monthly inspection reports, and the Revised deformation Analysis: *Cracking Study Using 2D Nonlinear Numerical Modeling, Santiago Creek Dam*, and confirmed the following: that the crack might have developed between October 3 and October 7, 2024, and that the change in dam crest direction that occurs between Station 6+00 and 8+00 (Crack Location 1) is in an area identified for potential cracking. In October, no seismic events occurred that met IRWD's seismic response criteria, as described in Dam Safety Program Guidelines, Guideline No. 3.

On October 17, 2024, IRWD staff and AECOM visited the dam in the late afternoon and walked the entire dam crest. Two crack locations were observed, and the extents of the cracks were exposed with a broom and measured. The two crack locations are as shown in the memorandum provided in the Appendices of this report. IRWD staff and AECOM took the following measurements:

Location 1:

- The crack length is approximately 25 feet long and longitudinal.
- The greatest width is approximately ½ inch.
- The depth at the greatest width is approximately 1.5 feet.

Location 2:

- The crack length is approximately 24 feet long and longitudinal.
- The greatest width is approximately $\frac{1}{4}$ inch.
- The depth at the greatest width is approximately 8 inches.

Based on the site assessment, the memorandum made the following recommendations:

- The two crack locations should be regularly monitored. The length, width, and depth should be recorded as part of the monitoring program. Monitoring should occur at least once a month and every two weeks if rain events have occurred within 2-weeks.
- The cracks should be preserved and barricaded to prevent material from entering the cracks.
- The dam crest should be closed to regular vehicle traffic and limited to vehicle access that is required for urgent maintenance or operations.

IRWD has provided documentation stating that the cracks have not worsened since their initial discovery and during GEI' inspection were observed to have essentially sealed, therefore IRWD has discontinued monitoring of the cracks.

3.0 Field Evaluations

3.1 Field Evaluation on June 16, 2025

A field evaluation and inspection were performed by Emerson Revolorio, Santiago Martinez-Granata, and Adam Snyder of GEI, and Christian Wimenta, Anthony Zaragoza, Nick Pizanie, and Steve Habiger of the District on June 16, 2025. The reservoir level was reported to be at Elevation 758.1—33.8 feet below the spillway crest. Weather conditions were sunny with temperature in the mid-80s. Photos taken by GEI are included in the Appendix of this report.

3.1.1 Dam

The crest of dam, downstream toe area, sections of the upstream and downstream slopes, right abutment area, and groin areas were walked and appeared to be similar to the conditions observed during the March 2024 inspection except for the dam crest cracks identified by IRWD in October 2024, see Photos 1-8. The dam crest, slopes, right abutment area, and groin areas did not have any unusual signs of instability or movement. The upstream slope concrete lining has long standing temperature shrinkage cracking and needs to be monitored annually. During the previous year's inspection, GEI observed that the vegetation growing in the cracks and between the panel joints of the upstream slope concrete liner were removed, but have since grown back slightly, see Photos 7 and 8. The District has continued to mow the grass cover and remove the brush and small trees along the dam downstream face and right abutment area, see Photos 2-6. The right abutment area and both downstream groin areas were inspected, and no unusual conditions were seen. The downstream toe area of the dam was walked, and no unusual signs were seen. The downstream face and toe of the dam did not have any signs of seepage or wet spots. GEI did not observe rodent activity on the dam. IRWD operations staff reported that the new pest control company has been successful in lowering rodent activity. The rock knob between the dam and spillway had no signs of movement or instability. The sloughing sediment from the left abutment at the spillway had been cleared, see Photo 9.

GEI observed previously completed concrete patch work by the District on the spillway approach and upstream dam face concrete panels, see Photos 10 and 11. DSOD staff conducted a site visit of Santiago Creek Dam on March 26, 2024, and identified a crack in the concrete liner on the upstream face, located between Piezometers R1 and R6. GEI identified the same crack on the upstream concrete liner, see Photo 12.

GEI inspected the existing cracks along the crest of the dam, see Photos 13 and 14. The cracks appeared to have been partially filled in and no signs of progression were seen.

3.1.2 Spillway

The reinforced concrete spillway bridge, approach, and chute were walked and inspected, see Photos 11 and 15-17. The spillway was clear. A design project is currently underway to build a new spillway. The new spillway will address the overall concerns with the aging structure. There are various localized concrete areas especially on the bridge parapets and approach that require concrete repairs. Several temperature related cracks were observed along the dams' upstream slope concrete liner, see Photo 13. The District is operating the reservoir under an interim winter restriction (Elevation 762.5 ft) to mitigate the potential of future spillway spills and the potential of spillway damage prior to constructing the new spillway. During their 2024 annual inspection, DSOD also identified concrete spalls with exposed rebar and a damaged section of concrete in the spillway. GEI located and identified the damaged locations during the 2025 inspection, see Photo 17.

3.1.3 Outlet Works

The energy dissipator structure was clear, see Photo 18. GEI observed minor concrete spalling and exposed rebar within the dissipator structure, see Photos 19 and 20. The outlet tower was not accessed during this inspection, so an evaluation was not conducted. No unusual conditions were seen as viewed from the spillway, see Photo 21. The outlet gate valves, downstream valves, and emergency blowoff valves were not exercised during the inspection. The Dam Outlet Valve Exercising Log provided by the District, noted the valves were last exercised on May 6, 2026 (Appendix B).

3.1.4 Seepage

No seepage or wet spots were seen on the downstream slope or toe area of the dam. There is no seepage collection system for this dam. The alluvium foundation acts as a drain blanket for the dam.

4.0 Conclusions and Recommendations

4.1 Conclusions

- 1) Based on the review of available instrumentation data and GEI's field inspection, the dam did not have signs of structural deficiencies, seepage, and instability.
- 2) Based on GEI's review, the piezometers responded to reservoir water surface levels—the water levels remained normal and consistent with historical levels.
- 3) The overgrown vegetation growing in the cracks of the dam's upstream slope concrete liner and between the concrete panel joints was recently removed. Sparse vegetation still grows in between the concrete panel joints.
- 4) The upstream slope concrete lining had long standing temperature shrinkage cracking. The upper 15 feet of the dam as well the entire spillway and approach are to be replaced with the upcoming dam modification project.
- 5) GEI did not observe rodent activity throughout the downstream face of the dam as we had in previous inspections. IRWD is continuing with rodent control measures. IRWD is currently utilizing carbon monoxide as an effective treatment for ground squirrel control. IRWD still has black feeder control stations for rats and mice near the dam caretaker house and other IRWD facilities.
- 6) The sloughing sediment from the left abutment at the spillway had been cleared.
- 7) In 2024, DSOD identified a crack in the concrete panel on the dam's upstream face, located between Piezometers R1 and R6. As of 2025, the crack is still present and has not appeared to worsen. The crack will be repaired in the upcoming dam modification project.
- 8) The two dam crest cracks have been partially filled with surrounding material and did not show signs of progression. IRWD confirmed that the cracks have not appeared to worsen and that they have discontinued monitoring of the cracks.
- 9) There are longstanding erosion rills on the downstream face of the dam, but they do not pose a dam safety concern. The rills will be addressed with the upcoming dam modification project.

- 10) Based on the recent cleaning and the readings during the review period, we believe that piezometer R-3 Middle has some blockage or a bend in the standpipe. However, all piezometers will be replaced during the upcoming dam modification project.
- 11) Genterra was unsuccessful in cleaning out piezometer R-5 and was not able to restore the functionality of the piezometer. Based on an existing bend in the standpipe and a significant amount of accumulated sediment inside the standpipe, it would be very challenging to remove accumulated sediment. However, all piezometers will be replaced during the upcoming dam modification project.
- 12) The energy dissipator structure was clear. Minor concrete spalling and exposed rebar was observed during the inspection, and repairs are not recommended due to the planned outlet works replacement during the upcoming dam modification project in 2027.
- 13) The exposed portions of outlet tower appeared to be in adequate condition. No significant or unusual conditions were seen. The outlet tower access ladder is corroded, as seen in previous year's inspections. It is noted the outlet tower will be removed as part of the spillway and outlet works improvement project.
- 14) GEI observed concrete patch work at the spillway approach and upstream dam face concrete panels, with some areas needing further patching. However, the concrete panels in the spillway approach and the upper 15 feet of the dam will be replaced.
- 15) Horizontal and vertical movements appear to be minimal and consistent with historical data and trends, except for BM-5. Since 1994, BM-5 has experienced a net horizontal displacement of approximately 0.8 inches in the upstream direction, which reaches the Yellow Alarm level. Additionally, during the review period, horizontal movement in the East-West direction for BM-5 was at the Red Alarm level. This movement is considered to be related to the sloughing of the left abutment material despite cleanup of the material.
- 16) There is sediment and vegetation at the left side of the spillway approach.
- 17) There are spalls with exposed concrete and damaged section of concrete in the spillway. Also, minor undercutting of the flip bucket has been identified in previous inspections. Despite potential for significant rainfall during the upcoming winter seasons prior to the spillway replacement, the damage to the spillway is not considered a significant safety concern. If the replacement project is to be significantly delayed, the District should repair the damaged portion of the spillway.
- 18) The spillway is considered to be in poor to fair condition requiring several repairs that the District is aware of and is in the process of implementing the dam, spillway, and outlet tower modification project.

4.2 Recommendations

- 1) The District should continue collaborating with pest management companies to determine most effective treatment options in controlling rodent activity. In addition, the District should continue collapsing, backfilling, and compacting rodent holes with surrounding material as an ongoing maintenance item throughout the dam.
- 2) Continue to monitor the cracking in the upstream slope concrete liner annually and continue to remove vegetation in the cracks and panel joints. The District should also patch the concrete as only the concrete liner near the spillway as well as the top 15 feet of the dam will be replaced during the upcoming modification project.
- 3) Continue to cut down all small trees and brush growing on the downstream slope and toe area of the dam before they become overgrown.
- 4) The District should continue with localized repairs of spillway concrete cracks and spalled areas as required considering the District is moving forward with the dam modification project. The project would also include the left abutment sloughing next to the spillway approach and the undercutting/erosion at the downstream end of the spillway chute.
- 5) The District should stop taking readings at Piezometer R-3 Middle since it is providing unreliable data and cleaning attempts have been unsuccessful. The piezometer will be replaced during the upcoming dam modification project.
- 6) The District should stop taking readings at piezometer R-5 Lower since it is providing unreliable data and cannot be abandoned because R-5 Upper is in the same hole. The piezometer will be replaced during the upcoming dam modification project.
- 7) The District should monitor the concrete spalling and exposed rebar locations within the outlet blowoff structure until the structure is replaced in the upcoming project.
- 8) The outlet tower access ladder is corroded and needs to be repaired if personnel will use it prior to the planned dam modification project.
- 9) The District should continue to monitor BM-5 and surrounding area until it is replaced during the new dam modification project.
- 10) During normal inspection and operation, the District personnel should continue to observe the condition of the dam and appurtenances, looking for any signs of distress, instability, or movement, increased seepage, or other unusual conditions, and continue ensuring the Santiago Creek Dam facilities are fully functional. Any unusual observations should be reported immediately to the Dam Safety Engineer.

- 11) GEI recommends following IRWD's 2026 Dam Safety Program Guideline No. 3 (Seismic Monitoring) post-earthquake when a peak ground acceleration of $>0.3g$ is observed at the site.

Santiago Creek Dam Action Item Summary

Item	Location	Maintenance	Measures
Rodent activity	Throughout dam	Continued rodent prevention.	The District should continue collaborating with pest management companies to determine most effective treatment options in controlling rodent activity. In addition, the District should continue collapsing, backfilling, and compacting rodent holes with surrounding material as an ongoing maintenance item throughout the dam.
Movement Surveys*	BM-5	Red Alarm	Continue to monitor survey monument and inspect surrounding area.
Small trees and brush	Downstream Face	Vegetation	Continue to remove.
Piezometer R-3 Middle*	Dam crest	Unreliable readings	Discontinue piezometer reading.
Piezometer R-5 Lower*	Downstream Bench	Unreliable readings	Stop taking readings.
Concrete lining	Upstream slope	Long standing temperature shrinkage cracking with vegetation in cracks	Monitor annually and remove vegetation.
Outlet Tower	Access Ladder	Corroded ladder	If personnel will continue to access the ladder, the ladder should be repaired.
Spillway*	Downstream left wall	Monitor damaged concrete	The District should continue to monitor the damaged concrete. If the upcoming project is to be delayed, repair the damaged portion of the concrete within the spillway.
Outlet Blowoff Structure*	Concrete surrounding blowoff	Monitor damaged concrete	The District should continue to monitor the damaged concrete. If the upcoming project is to be delayed, repair the damaged portion of the concrete within the blowoff structure.

* The construction of Santiago Creek Dam Outlet Tower and Spillway Improvement project is anticipated to start in Summer 2027. Project scopes include improvements on the dam, outlet tower replacement, and spillway, along with replacement of all piezometers and survey monuments.

5.0 Limitations

This report was prepared exclusively for the use of Irvine Ranch Water District. The findings and conclusions, if any provided by GEI in this report, are based solely on the information reported to GEI as of the date of this report. Future investigations or additional information not provided to GEI at the time of this report may result in modification of this report. GEI's scope of work did not include verifying the completeness or accuracy of information provided by others. Accordingly, GEI shall not be liable for any damages, costs, or other consequences resulting from reliance on such information if it is later determined to be inaccurate or incomplete. GEI's professional services for this project have been performed in a manner consistent with that degree of skill and care ordinarily exercised by members of the same profession currently practicing in the same locality, performing similar services under similar conditions. GEI makes no other representations and no warranties, express or implied.

This report presents observations made, conclusions drawn, and opinions formed from (1) a visual inspection of Santiago Creek Dam and its appurtenant structures, and (2) a review of instrumentation data, including piezometer levels, survey data and seepage rates, collected by the Districts. The purpose of the inspection and review is to assess the safety of the structure for continuing operation. Reuse of this report for any other purposes, in part or in whole, is at the sole risk of the user.

In the context intended above, the term "safety" is interpreted to be restricted specifically to major structural and control features of the project in regard to their adequacy against possible catastrophic failure due to natural or operational events. No consideration is given herein to those public safety aspects related to voluntary occupancy or use of project features in such manner as to result in personal mishaps.

The undersigned who performed the inspection and reviewed the instrumentation data and prepared this report, desire that it be clearly understood that the conclusions regarding the condition and safety of the dam and related facilities are not guaranteed but do represent our best judgment. Inevitably, such judgment must be recognized to be affected to an uncertain degree by the practical limitations that affect all dam evaluations, relative principally to approximate knowledge of the existing properties of the structures and their foundations, the potential for storm or seismic damage, and the uncertainties that are known to exist in estimating margins of report represents the results of our surveillance program for Santiago Creek Dam, covering safety.

6.0 References

AECOM, 2016, 2015 Annual Surveillance Report for Santiago Creek Dam, No. 75-000, Orange County, California; by AECOM; dated April 21, 2016.

California Department of Water Resources, Division of Safety of Dams (DSOD), 200, Dams Within Jurisdiction of the State of California, Bulletin 17-00; by DSOD; date July 2000.

DSOD, Inspection of Dam and Reservoir in Certified Status October 20, 2020.

Irvine Ranch Water District (IRWD), Dam Safety Program Guidelines & Governance, July 2023.

Tables

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number		R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower		
Top Ref. Elev. (ft)		811.500		811.500		811.500		811.900		811.900		811.900		
Top Ref. Elev. (ft) After 5/21/2012		811.405		811.425		811.380		811.675		811.675		811.675		
Tip Elev. (ft)		733.405		701.425		669.880		711.675		670.175		654.675		
Total Depth (ft)		78.0		110.0		141.5		100.0		141.5		157.0		
Total Depth (ft) After 5/21/2012		78.0		110.0		141.5		100.0		141.5		157.0		
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
1/10/2007	749.70		77.50	734.00	109.20	702.30	117.40	694.10	100.00	711.90	140.30	671.60	144.90	667.00
1/19/2007	749.40		77.50	734.00	109.20	702.30	117.40	694.10	100.00	711.90	140.30	671.60	144.90	667.00
1/29/2007	749.60		77.50	734.00	109.20	702.30	117.40	694.10	100.00	711.90	140.30	671.60	144.90	667.00
2/7/2007	750.00		77.50	734.00	109.20	702.30	117.60	693.90	100.00	711.90	140.30	671.60	144.90	667.00
2/16/2007	750.20		77.50	734.00	109.20	702.30	117.70	693.80	100.00	711.90	140.30	671.60	144.90	667.00
2/26/2007	750.60		77.50	734.00	109.20	702.30	118.00	693.50	100.00	711.90	140.30	671.60	144.90	667.00
3/6/2007	751.70		77.50	734.00	109.20	702.30	118.10	693.40	100.00	711.90	140.30	671.60	144.90	667.00
3/17/2007	755.10		77.50	734.00	109.20	702.30	118.40	693.10	100.00	711.90	140.30	671.60	144.90	667.00
3/25/2007	756.30		77.50	734.00	109.20	702.30	118.40	693.10	100.00	711.90	140.30	671.60	145.00	666.90
4/6/2007	760.00		77.50	734.00	109.20	702.30	118.50	693.00	100.00	711.90	140.30	671.60	145.00	666.90
4/16/2007	762.90		77.50	734.00	109.20	702.30	118.50	693.00	100.00	711.90	140.30	671.60	145.00	666.90
4/27/2007	767.10		77.50	734.00	109.20	702.30	118.50	693.00	100.00	711.90	140.30	671.60	145.00	666.90
5/9/2007	766.80		77.50	734.00	109.20	702.30	118.50	693.00	100.00	711.90	140.30	671.60	145.00	666.90
5/19/2007	764.80		77.50	734.00	109.20	702.30	118.60	692.90	100.00	711.90	140.30	671.60	145.00	666.90
5/29/2007	762.80		77.50	734.00	109.20	702.30	118.70	692.80	100.00	711.90	140.30	671.60	145.00	666.90
6/8/2007	761.20		77.50	734.00	109.20	702.30	118.60	692.90	100.00	711.90	140.30	671.60	145.00	666.90
6/18/2007	759.90		77.50	734.00	109.20	702.30	118.60	692.90	100.00	711.90	140.30	671.60	145.00	666.90
6/28/2007	758.10		77.50	734.00	109.20	702.30	118.80	692.70	100.00	711.90	140.30	671.60	145.00	666.90
7/10/2007	756.70		77.50	734.00	109.20	702.30	119.00	692.50	100.00	711.90	140.30	671.60	145.00	666.90
7/19/2007	755.80		77.50	734.00	109.20	702.30	119.10	692.40	100.00	711.90	140.30	671.60	145.00	666.90
7/30/2007	754.90		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
8/11/2007	754.40		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
8/22/2007	753.80		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
8/30/2007	753.30		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
9/7/2007	753.20		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
9/18/2007	753.00		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
9/27/2007	753.60		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
10/8/2007	754.90		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
10/17/2007	756.20		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
10/30/2007	757.80		77.50	734.00	109.20	702.30	119.40	692.10	100.00	711.90	140.30	671.60	145.00	666.90
11/9/2007	759.60		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
11/19/2007	763.60		77.50	734.00	109.20	702.30	119.20	692.30	100.00	711.90	140.30	671.60	145.00	666.90
11/28/2007	766.50		77.50	734.00	109.20	702.30	119.40	692.10	100.00	711.90	140.30	671.60	145.00	666.90
12/8/2007	768.70		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90	140.30	671.60	145.00	666.90
12/18/2007	768.50		77.50	734.00	109.20	702.30	119.70	691.80	100.00	711.90	140.30	671.60	145.00	666.90
12/28/2007	769.30		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.30	671.60	145.00	666.90
1/9/2008	770.50		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.30	671.60	145.00	666.90
1/19/2008	770.30		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.30	671.60	145.00	666.90
1/29/2008	772.70		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.30	671.60	145.00	666.90
2/9/2008	774.10		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.30	671.60	145.00	666.90
2/19/2008	774.40		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.30	671.60	145.00	666.90
2/27/2008	775.00		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.30	671.60	145.00	666.90

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number		R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower		
Top Ref. Elev. (ft)		811.500		811.500		811.500		811.900		811.900		811.900		
Top Ref. Elev. (ft) After 5/21/2012		811.405		811.425		811.380		811.675		811.675		811.675		
Tip Elev. (ft)		733.405		701.425		669.880		711.675		670.175		654.675		
Total Depth (ft)		78.0		110.0		141.5		100.0		141.5		157.0		
Total Depth (ft) After 5/21/2012		78.0		110.0		141.5		100.0		141.5		157.0		
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
3/7/2008	775.00		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.30	671.60	145.00	666.90
3/18/2008	775.00		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.30	671.60	145.00	666.90
3/29/2008	774.90		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.30	671.60	145.00	666.90
4/10/2008	775.00		77.50	734.00	109.20	702.30	119.70	691.80	100.00	711.90	140.30	671.60	145.00	666.90
4/20/2008	774.80		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90	140.30	671.60	145.00	666.90
5/5/2008	774.65		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90	140.30	671.60	145.00	666.90
5/13/2008	773.90		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90	140.30	671.60	145.00	666.90
5/21/2008	772.85		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90	140.30	671.60	145.00	666.90
5/31/2008	772.10		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90	140.30	671.60	145.00	666.90
6/9/2008	771.20		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90	140.30	671.60	145.00	666.90
6/18/2008	770.50		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90	140.30	671.60	144.90	667.00
6/26/2008	769.60		77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90	140.30	671.60	144.80	667.10
7/8/2008	768.10		77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90	140.00	671.90	144.80	667.10
7/19/2008	766.60		77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90	140.00	671.90	144.80	667.10
7/29/2008	765.50	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90	140.00	671.90	144.80	667.10
8/4/2008	764.60	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90	140.00	671.90	144.80	667.10
8/9/2008	764.25	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90	140.00	671.90	144.80	667.10
8/19/2008	763.20	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90	140.00	671.90	144.70	667.20
8/28/2008	762.25	0.00	77.50	734.00	109.20	702.30	119.50	692.00	100.00	711.90	140.00	671.90	144.80	667.10
9/6/2008	761.00	0.00	77.50	734.00	109.20	702.30	119.70	691.80	100.00	711.90	140.00	671.90	144.80	667.10
9/17/2008	760.10	0.00	77.50	734.00	109.20	702.30	119.70	691.80	100.00	711.90	140.00	671.90	144.80	667.10
9/29/2008	759.20	0.00	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.00	671.90	144.50	667.40
10/8/2008	759.00	0.00	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.00	671.90	144.80	667.10
10/18/2008	758.90	0.00	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.00	671.90	144.80	667.10
10/29/2008	761.30	0.00	77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.00	671.90	144.80	667.10
11/8/2008	764.30	0.00	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.00	671.90	144.80	667.10
11/17/2008	766.90	0.00	77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.00	671.90	144.80	667.10
11/25/2008	769.90	1.71	77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.00	671.90	144.80	667.10
12/4/2008	773.90		77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.00	671.90	144.80	667.10
12/13/2008	777.30		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90	140.00	671.90	144.90	667.00
12/21/2008	779.10		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90	140.00	671.90	144.90	667.00
12/30/2008	779.40	3.99	77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90	140.00	671.90	144.90	667.00
1/8/2009	779.30		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90	140.00	671.90	144.80	667.10
1/19/2009	778.50		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90	140.00	671.90	144.70	667.20
1/29/2009	778.30	0.38	77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90	140.00	671.90	144.70	667.20
2/12/2009	779.80		77.50	734.00	109.20	702.30	120.00	691.50	100.00	711.90	140.00	671.90	144.70	667.20
2/19/2009	781.30		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.00	671.90	144.70	667.20
2/27/2009	782.20	4.33	77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.00	671.90	144.70	667.20
3/10/2009	782.70		77.50	734.00	109.20	702.30	119.60	691.90	100.00	711.90	140.00	671.90	144.70	667.20
3/20/2009	782.40		77.50	734.00	109.20	702.30	119.80	691.70	100.00	711.90	140.00	671.90	144.70	667.20
3/25/2009	782.20	0.43	77.50	734.00	109.20	702.30	119.90	691.60	100.00	711.90	140.00	671.90	144.70	667.20
4/4/2009	785.30		77.50	734.00	109.20	702.30	119.70	691.80	100.00	711.90	140.00	671.90	144.70	667.20

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
4/13/2009	788.50		77.50	734.00	109.20	702.30	119.60	691.90	99.00	712.90	140.00	671.90	144.70	667.20
4/21/2009	790.50		77.50	734.00	109.20	702.30	119.30	692.20	95.90	716.00	140.00	671.90	144.70	667.20
4/26/2009	791.20	0.00	77.50	734.00	109.20	702.30	119.30	692.20	94.80	717.10	140.00	671.90	144.70	667.20
5/4/2009	791.30		77.50	734.00	109.20	702.30	118.80	692.70	92.10	719.80	140.00	671.90	144.70	667.20
5/13/2009	790.60		77.50	734.00	109.20	702.30	118.50	693.00	91.80	720.10	140.00	671.90	144.70	667.20
5/21/2009	789.90		77.50	734.00	109.20	702.30	118.30	693.20	90.80	721.10	140.00	671.90	144.70	667.20
5/30/2009	789.30	0.00	77.50	734.00	109.20	702.30	118.20	693.30	89.00	722.90	140.00	671.90	144.70	667.20
6/8/2009	788.70		77.50	734.00	109.20	702.30	118.00	693.50	88.80	723.10	140.00	671.90	144.70	667.20
6/17/2009	788.20		77.50	734.00	109.20	702.30	117.70	693.80	88.70	723.20	140.00	671.90	144.70	667.20
6/27/2009	787.60	0.00	77.50	734.00	109.20	702.30	117.40	694.10	88.50	723.40	140.00	671.90	144.70	667.20
7/7/2009	786.80		77.50	734.00	109.20	702.30	117.40	694.10	88.60	723.30	140.00	671.90	144.50	667.40
7/15/2009	786.10		77.50	734.00	109.20	702.30	117.40	694.10	88.70	723.20	140.00	671.90	143.40	668.50
7/22/2009	785.50		77.50	734.00	109.20	702.30	117.40	694.10	88.70	723.20	140.00	671.90	143.40	668.50
7/30/2009	784.70	0.00	77.50	734.00	109.20	702.30	117.50	694.00	88.90	723.00	140.00	671.90	143.40	668.50
8/8/2009	783.90		77.50	734.00	109.20	702.30	116.90	694.60	89.30	722.60	140.00	671.90	143.50	668.40
8/15/2009	783.30		77.50	734.00	109.20	702.30	116.60	694.90	89.70	722.20	140.00	671.90	143.60	668.30
8/26/2009	782.30	0.00	77.50	734.00	109.20	702.30	116.20	695.30	90.10	721.80	140.00	671.90	143.60	668.30
9/5/2009	781.50		77.50	734.00	109.20	702.30	116.20	695.30	90.90	721.00	140.00	671.90	143.70	668.20
9/12/2009	780.80		77.50	734.00	109.20	702.30	116.30	695.20	91.60	720.30	140.00	671.90	143.80	668.10
9/19/2009	780.20		77.50	734.00	109.20	702.30	116.00	695.50	91.80	720.10	140.00	671.90	143.80	668.10
9/28/2009	779.50	0.00	77.50	734.00	109.20	702.30	115.90	695.60	92.10	719.80	140.00	671.90	143.80	668.10
10/8/2009	778.50		77.50	734.00	109.20	702.30	115.90	695.60	92.90	719.00	140.00	671.90	143.80	668.10
10/19/2009	777.80		77.50	734.00	109.20	702.30	116.00	695.50	93.60	718.30	140.00	671.90	143.80	668.10
10/30/2009	776.80	0.24	77.50	734.00	109.20	702.30	116.00	695.50	94.10	717.80	140.00	671.90	143.80	668.10
11/9/2009	776.10		77.50	734.00	109.20	702.30	116.00	695.50	94.70	717.20	140.00	671.90	143.90	668.00
11/20/2009	775.40		77.50	734.00	109.20	702.30	116.00	695.50	95.00	716.90	140.00	671.90	144.00	667.90
11/28/2009	774.90	0.00	77.50	734.00	109.20	702.30	116.00	695.50	95.60	716.30	140.00	671.90	143.00	668.90
12/9/2009	774.60		77.50	734.00	109.20	702.30	116.20	695.30	96.20	715.70	140.00	671.90	143.00	668.90
12/18/2009	774.60		77.50	734.00	109.20	702.30	116.20	695.30	96.70	715.20	140.00	671.90	143.00	668.90
12/29/2009	774.30	3.56	77.50	734.00	109.20	702.30	116.40	695.10	97.00	714.90	140.00	671.90	143.00	668.90
1/9/2010	773.90		77.50	734.00	109.20	702.30	116.50	695.00	97.10	714.80	140.00	671.90	143.10	668.80
1/17/2010	773.60		77.50	734.00	109.20	702.30	116.50	695.00	97.20	714.70	140.00	671.90	143.20	668.70
1/28/2010	779.90	7.84	77.50	734.00	109.20	702.30	116.50	695.00	97.20	714.70	140.00	671.90	143.00	668.90
2/4/2010	780.15		77.50	734.00	109.20	702.30	116.50	695.00	96.90	715.00	140.00	671.90	143.90	668.00
2/12/2010	783.40		77.50	734.00	109.20	702.30	116.50	695.00	96.60	715.30	140.00	671.90	143.80	668.10
2/19/2010	784.00		77.50	734.00	109.20	702.30	116.60	694.90	96.20	715.70	140.00	671.90	143.80	668.10
2/26/2010	784.45	2.69	77.50	734.00	109.20	702.30	116.60	694.90	95.90	716.00	140.00	671.90	143.80	668.10
3/6/2010	785.60		77.50	734.00	109.20	702.30	116.60	694.90	95.80	716.10	140.00	671.90	143.70	668.20
3/15/2010	786.20		77.50	734.00	109.20	702.30	116.50	695.00	94.80	717.10	140.00	671.90	143.70	668.20
3/16/2010	786.30		77.50	734.00	109.20	702.30	116.40	695.10	94.80	717.10	140.00	671.90	143.70	668.20
3/24/2010	786.20	2.03	77.50	734.00	109.20	702.30	116.30	695.20	93.80	718.10	140.00	671.90	143.70	668.20
4/2/2010	785.80		77.50	734.00	109.10	702.40	116.00	695.50	92.20	719.70	140.00	671.90	143.60	668.30

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
4/4/2010	785.80		77.50	734.00	109.10	702.40	116.00	695.50	92.10	719.80	140.00	671.90	143.60	668.30
4/12/2010	787.40		77.50	734.00	109.10	702.40	116.00	695.50	91.60	720.30	140.00	671.90	143.50	668.40
4/20/2010	790.10		77.50	734.00	109.10	702.40	115.90	695.60	90.80	721.10	140.00	671.90	143.50	668.40
4/28/2010	792.60	1.19	77.50	734.00	109.10	702.40	115.90	695.60	90.10	721.80	140.00	671.90	143.40	668.50
5/6/2010	792.90		77.50	734.00	109.10	702.40	115.90	695.60	88.70	723.20	140.00	671.90	143.20	668.70
5/14/2010	792.40		77.50	734.00	109.10	702.40	115.70	695.80	86.00	725.90	140.00	671.90	143.10	668.80
5/21/2010	792.10		77.50	734.00	109.10	702.40	115.50	696.00	84.50	727.40	140.00	671.90	143.00	668.90
5/29/2010	791.70	0.00	77.50	734.00	109.10	702.40	115.20	696.30	82.70	729.20	140.00	671.90	142.90	669.00
6/8/2010	791.00		77.50	734.00	109.00	702.50	114.70	696.80	81.90	730.00	140.00	671.90	142.90	669.00
6/15/2010	790.60		77.50	734.00	109.00	702.50	114.40	697.10	81.60	730.30	140.00	671.90	142.80	669.10
6/22/2010	790.10		77.50	734.00	109.00	702.50	114.20	697.30	81.20	730.70	140.00	671.90	142.80	669.10
6/29/2010	789.70	0.00	77.50	734.00	109.00	702.50	113.80	697.70	80.90	731.00	140.00	671.90	142.80	669.10
7/8/2010	789.20		77.50	734.00	109.00	702.50	113.70	697.80	80.90	731.00	140.00	671.90	143.00	668.90
7/16/2010	788.70		77.50	734.00	109.00	702.50	113.50	698.00	80.90	731.00	140.00	671.90	143.00	668.90
7/23/2010	788.30		77.50	734.00	109.00	702.50	113.40	698.10	80.90	731.00	140.00	671.90	143.10	668.80
7/31/2010	787.70	0.00	77.50	734.00	109.00	702.50	113.40	698.10	80.80	731.10	140.00	671.90	143.10	668.80
8/7/2010	787.30		77.50	734.00	109.20	702.30	113.30	698.20	81.20	730.70	140.00	671.90	143.00	668.90
8/15/2010	786.70		77.50	734.00	109.20	702.30	113.20	698.30	81.80	730.10	140.00	671.90	143.10	668.80
8/23/2010	786.10		77.50	734.00	109.20	702.30	113.10	698.40	82.30	729.60	140.00	671.90	143.10	668.80
8/29/2010	785.60	0.00	77.50	734.00	109.20	702.30	113.00	698.50	82.80	729.10	140.00	671.90	143.10	668.80
9/8/2010	784.90		77.50	734.00	109.20	702.30	113.00	698.50	83.30	728.60	140.00	671.90	143.10	668.80
9/17/2010	784.20		77.50	734.00	109.20	702.30	113.00	698.50	83.60	728.30	140.00	671.90	143.10	668.80
9/27/2010	783.50	0.00	77.50	734.00	109.20	702.30	113.00	698.50	84.70	727.20	140.00	671.90	143.20	668.70
10/8/2010	782.80		77.50	734.00	109.20	702.30	113.00	698.50	84.60	727.30	140.00	671.90	143.20	668.70
10/18/2010	782.20		77.50	734.00	109.20	702.30	113.00	698.50	85.10	726.80	140.00	671.90	143.20	668.70
10/28/2010	782.00	1.76	77.50	734.00	109.20	702.30	113.00	698.50	85.70	726.20	140.00	671.90	143.30	668.60
11/4/2010	781.70		77.50	734.00	109.20	702.30	113.00	698.50	86.00	725.90	140.00	671.90	143.30	668.60
11/15/2010	781.10		77.50	734.00	109.20	702.30	113.00	698.50	86.40	725.50	140.00	671.90	143.30	668.60
11/26/2010	780.80	1.33	77.50	734.00	109.20	702.30	113.00	698.50	86.80	725.10	140.00	671.90	143.30	668.60
12/8/2010	780.50		77.50	734.00	109.20	702.30	113.00	698.50	86.90	725.00	140.00	671.90	143.30	668.60
12/16/2010	780.40		77.50	734.00	109.20	702.30	113.00	698.50	87.20	724.70	140.00	671.90	143.30	668.60
12/30/2010	792.60	11.72	77.50	734.00	109.10	702.40	113.20	698.30	83.70	728.20	139.90	672.00	142.90	669.00
1/6/2011	792.20		77.50	734.00	107.10	704.40	113.20	698.30	81.80	730.10	140.00	671.90	143.10	668.80
1/7/2011	792.20		77.50	734.00	107.30	704.20	113.20	698.30	81.80	730.10	140.00	671.90	143.10	668.80
1/17/2011	792.00		77.50	734.00	106.70	704.80	112.70	698.80	79.80	732.10	139.00	672.90	143.10	668.80
1/27/2011	791.80	1.11	77.50	734.00	106.50	705.00	112.50	699.00	78.90	733.00	139.10	672.80	143.10	668.80
2/5/2011	791.80		77.50	734.00	106.00	705.50	112.30	699.20	78.90	733.00	139.00	672.90	143.10	668.80
2/15/2011	791.80		77.50	734.00	105.80	705.70	112.10	699.40	78.90	733.00	139.00	672.90	143.10	668.80
2/23/2011	792.20	2.87	77.50	734.00	105.60	705.90	112.00	699.50	78.70	733.20	139.00	672.90	143.10	668.80
3/8/2011	792.10		77.50	734.00	105.10	706.40	111.60	699.90	78.00	733.90	139.00	672.90	143.10	668.80
3/19/2011	791.80		77.50	734.00	104.60	706.90	111.40	700.10	77.60		139.00	672.90	143.10	668.80
3/30/2011	791.50	3.23	77.50	734.00	104.30	707.20	111.20	700.30	77.10		139.00	672.90	143.10	668.80

- Notes:
1. Readings in red are classified as erroneous.
 2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
4/7/2011	792.10		77.50	734.00	104.00	707.50	110.90	700.60	77.10	734.80	139.00	672.90	143.00	668.90
4/16/2011	792.50		77.50	734.00	103.80	707.70	110.70	700.80	77.20	734.70	139.00	672.90	143.70	668.20
4/23/2011	792.60		77.50	734.00	103.60	707.90	110.50	701.00	77.20	734.70	139.70	672.20	143.40	668.50
4/30/2011	792.60	0.00	77.50	734.00	103.40	708.10	110.40	701.10	77.20	734.70	139.90	672.00	142.80	669.10
5/9/2011	792.40		77.50	734.00	103.20	708.30	110.40	701.10	77.20	734.70	139.90	672.00	142.80	669.10
5/16/2011	792.40		77.50	734.00	103.00	708.50	110.30	701.20	77.20	734.70	139.90	672.00	142.80	669.10
5/24/2011	792.40		77.50	734.00	102.80	708.70	110.10	701.40	77.30	734.60	139.90	672.00	142.80	669.10
5/31/2011	792.40	0.81	77.50	734.00	102.60	708.90	110.00	701.50	77.30	734.60	139.90	672.00	142.80	669.10
6/8/2011	792.10		77.50	734.00	102.30	709.20	111.00	700.50	77.30	734.60	140.00	671.90	142.80	669.10
6/16/2011	791.90		77.50	734.00	102.30	709.20	109.90	701.60	77.30	734.60	140.00	671.90	142.80	669.10
6/23/2011	791.80		77.50	734.00	102.30	709.20	109.60	701.90	77.30	734.60	140.00	671.90	142.80	669.10
6/30/2011	791.60	0.00	77.50	734.00	102.20	709.30	109.40	702.10	77.30	734.60	140.00	671.90	142.80	669.10
7/8/2011	791.40		77.50	734.00	102.20	709.30	109.20	702.30	77.60	734.30	140.00	671.90	142.90	669.00
7/14/2011	791.20		77.50	734.00	102.20	709.30	109.20	702.30	77.90	734.00	140.00	671.90	142.90	669.00
7/21/2011	790.90		77.50	734.00	102.20	709.30	109.00	702.50	78.10	733.80	140.00	671.90	142.90	669.00
7/30/2011	790.40	0.00	77.50	734.00	102.20	709.30	108.80	702.70	78.50	733.40	140.00	671.90	142.90	669.00
8/9/2011	789.90		77.50	734.00	102.20	709.30	109.00	702.50	79.10	732.80	140.00	671.90	142.90	669.00
8/15/2011	789.70		77.50	734.00	102.20	709.30	108.80	702.70	79.30	732.60	140.00	671.90	143.00	668.90
8/24/2011	789.00		77.50	734.00	102.20	709.30	109.00	702.50	79.60	732.30	140.00	671.90	143.00	668.90
9/1/2011	788.65	0.00	77.50	734.00	102.20	709.30	109.60	701.90	80.00	731.90	140.00	671.90	143.00	668.90
9/9/2011	787.90		77.50	734.00	102.40	709.10	109.70	701.80	81.40	730.50	140.00	671.90	143.00	668.90
9/16/2011	787.30		77.50	734.00	102.50	709.00	109.80	701.70	81.60	730.30	140.00	671.90	143.00	668.90
9/23/2011	787.00		77.50	734.00	102.60	708.90	109.80	701.70	81.80	730.10	140.00	671.90	143.00	668.90
9/29/2011	786.80	0.08	77.50	734.00	102.70	708.80	109.90	701.60	82.00	729.90	140.00	671.90	143.00	668.90
10/8/2011	786.60		77.50	734.00	102.80	708.70	110.20	701.30	82.70	729.20	140.00	671.90	143.10	668.80
10/15/2011	786.40		77.50	734.00	103.00	708.50	110.30	701.20	83.10	728.80	140.00	671.90	143.30	668.60
10/26/2011	786.00	1.29	77.50	734.00	103.10	708.40	110.30	701.20	83.50	728.40	140.00	671.90	143.40	668.50
11/5/2011	785.50		77.50	734.00	103.20	708.30	110.30	701.20	83.80	728.10	140.00	671.90	143.40	668.50
11/14/2011	785.40		77.50	734.00	103.20	708.30	110.30	701.20	84.30	727.60	140.00	671.90	143.40	668.50
11/22/2011	785.10		77.50	734.00	103.50	708.00	110.00	701.50	84.50	727.40	140.00	671.90	143.40	668.50
11/30/2011	785.10	1.79	77.50	734.00	103.80	707.70	110.00	701.50	84.70	727.20	140.00	671.90	143.50	668.40
12/9/2011	784.80		77.50	734.00	104.10	707.40	110.00	701.50	84.90	727.00	140.00	671.90	143.50	668.40
12/17/2011	784.60		77.50	734.00	104.30	707.20	111.00	700.50	84.90	727.00	140.10	671.80	143.50	668.40
12/22/2011	784.50		77.50	734.00	104.20	707.30	111.10	700.40	85.10	726.80	140.10	671.80	143.30	668.60
12/30/2011	784.30	0.45	77.50	734.00	104.30	707.20	111.20	700.30	85.20	726.70	140.20	671.70	143.30	668.60
1/7/2012	784.00		77.50	734.00	104.30	707.20	111.20	700.30	85.40	726.50	140.20	671.70	143.50	668.40
1/14/2012	783.80		77.50	734.00	104.40	707.10	111.20	700.30	85.70	726.20	140.10	671.80	143.50	668.40
1/21/2012	783.60		77.50	734.00	104.50	707.00	111.30	700.20	85.90	726.00	140.10	671.80	143.60	668.30
1/28/2012	783.60	1.72	77.50	734.00	104.60	706.90	111.30	700.20	86.00	725.90	140.10	671.80	143.60	668.30
2/7/2012	783.40		77.50	734.00	104.60	706.90	111.30	700.20	86.10	725.80	140.10	671.80	143.70	668.20
2/15/2012	783.40		77.50	734.00	104.60	706.90	111.30	700.20	86.10	725.80	140.10	671.80	143.70	668.20
2/25/2012	783.40	0.62	77.50	734.00	104.70	706.80	111.30	700.20	86.10	725.80	140.10	671.80	143.60	668.30

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
3/5/2012	783.20		77.50	734.00	105.00	706.50	111.70	699.80	86.40	725.50	140.10	671.80	143.60	668.30
3/15/2012	782.70		77.50	734.00	105.20	706.30	111.90	699.60	86.70	725.20	140.10	671.80	143.60	668.30
3/22/2012	782.60	2.01	77.50	734.00	105.40	706.10	111.90	699.60	86.90	725.00	140.10	671.80	143.70	668.20
4/3/2012	782.50		77.50	734.00	105.50	706.00	111.90	699.60	86.90	725.00	140.10	671.80	143.60	668.30
4/12/2012	782.10		77.50	734.00	105.60	705.90	111.90	699.60	87.00	724.90	140.10	671.80	143.60	668.30
4/21/2012	782.00		77.50	734.00	105.70	705.80	112.00	699.50	87.00	724.90	140.10	671.80	143.60	668.30
4/23/2012	781.90	1.32	77.50	734.00	105.70	705.80	112.00	699.50	87.20	724.70	140.10	671.80	143.60	668.30
5/1/2012	781.70		77.50	734.00	105.70	705.80	112.10	699.40	87.00	724.90	140.10	671.80	143.90	668.00
5/7/2012	781.30		77.50	734.00	105.60	705.90	112.10	699.40	87.10	724.80	140.10	671.80	143.60	668.30
5/21/2012	780.90		77.50	734.00	105.20	706.30	112.10	699.40	87.30	724.60	140.10	671.80	143.60	668.30
5/25/2012	780.00	0.06	77.50	733.91	105.90	705.53	112.10	699.28	87.50	724.18	140.10	671.58	143.70	667.98
6/4/2012	779.60		77.50	733.91	105.90	705.53	112.40	698.98	87.50	724.18	140.10	671.58	143.70	667.98
6/13/2012	778.70		77.50	733.91	105.90	705.53	112.40	698.98	88.20	723.48	140.10	671.58	143.70	667.98
6/20/2012	778.00		77.50	733.91	106.20	705.23	112.40	698.98	88.20	723.48	140.10	671.58	143.70	667.98
6/25/2012	777.30	0.00	77.50	733.91	106.30	705.13	112.50	698.88	88.60	723.08	140.10	671.58	143.70	667.98
7/4/2012	776.30		77.50	733.91	106.30	705.13	112.50	698.88	89.30	722.38	140.10	671.58	143.80	667.88
7/13/2012	775.70		77.50	733.91	106.50	704.93	112.50	698.88	89.80	721.88	140.10	671.58	144.00	667.68
7/20/2012	775.20		77.50	733.91	106.60	704.83	112.70	698.68	90.60	721.08	140.10	671.58	144.00	667.68
7/30/2012	775.00	0.10	77.50	733.91	106.90	704.53	112.90	698.48	91.00	720.68	140.10	671.58	144.00	667.68
8/8/2012	773.00		77.50	733.91	107.00	704.43	113.00	698.38	92.60	719.08	140.10	671.58	144.10	667.58
8/9/2012	772.90		77.50	733.91	107.10	704.33	113.00	698.38	92.70	718.98	140.10	671.58	144.10	667.58
8/18/2012	772.00		77.50	733.91	107.30	704.13	113.20	698.18	93.50	718.18	140.20	671.48	144.10	667.58
8/27/2012	771.10		77.50	733.91	107.40	704.03	113.30	698.08	94.60	717.08	140.20	671.48	144.10	667.58
8/29/2012	770.90	0.00	77.50	733.91	107.40	704.03	113.30	698.08	94.60	717.08	140.20	671.48	144.10	667.58
9/8/2012	769.80		77.50	733.91	107.60	703.83	113.70	697.68	97.00	714.68	140.20	671.48	144.10	667.58
9/15/2012	768.90		77.50	733.91	107.80	703.63	113.80	697.58			140.20	671.48	144.10	667.58
9/29/2012	767.80	0.00	77.50	733.91	108.00	703.43	113.80	697.58	98.00	713.68	140.20	671.48	144.10	667.58
10/11/2012	766.80		77.50	733.91	108.30	703.13	114.00	697.38	99.00	712.68	140.30	671.38	144.20	667.48
10/23/2012	765.90	1.10	77.50	733.91	108.50	702.93	114.20	697.18	99.00	712.68	140.30	671.38	144.30	667.38
11/12/2012	764.60		77.50	733.91	109.00	702.43	114.80	696.58	99.00	712.68	140.30	671.38	144.30	667.38
11/23/2012	764.30	0.16	77.50	733.91	109.00	702.43	114.80	696.58	99.00	712.68	140.30	671.38	144.30	667.38
12/12/2012	764.50	2.46	77.50	733.91	109.00	702.43	114.80	696.58	99.00	712.68	140.30	671.38	144.30	667.38
12/27/2012	769.10		77.50	733.91	109.00	702.43	115.00	696.38	99.80	711.88	140.30	671.38	144.30	667.38
1/16/2013	770.40		77.50	733.91	109.00	702.43	115.00	696.38	100.00	711.68	140.30	671.38	144.30	667.38
1/28/2013	769.90	1.82	77.50	733.91	109.00	702.43	115.00	696.38	100.00	711.68	140.30	671.38	144.40	667.28
2/15/2013	769.60		77.50	733.91	109.10	702.33	113.00	698.38	100.00	711.68	140.30	671.38	144.40	667.28
2/26/2013	769.40	0.68	77.50	733.91	109.20	702.23	115.40	695.98	100.00	711.68	140.30	671.38	144.40	667.28
3/13/2013	768.80		77.50	733.91	109.20	702.23	116.00	695.38	99.10	712.58	140.30	671.38	144.40	667.28
3/26/2013	768.60	0.66	77.50	733.91	109.20	702.23	116.00	695.38	99.10	712.58	140.30	671.38	144.40	667.28
4/10/2013	771.10		77.50	733.91	109.20	702.23	116.00	695.38	99.10	712.58	140.30	671.38	144.40	667.28
4/30/2013	772.20	0.00	77.50	733.91	109.20	702.23	116.00	695.38	99.80	711.88	140.30	671.38	144.40	667.28
5/9/2013	771.90		77.60	733.81	109.20	702.23	116.40	694.98	99.10	712.58	140.20	671.48	144.60	667.08

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
5/15/2013	771.70		77.60	733.81	109.20	702.23	116.40	694.98	99.10	712.58	140.20	671.48	144.60	667.08
5/22/2013	771.40		77.60	733.81	109.20	702.23	116.40	694.98	99.10	712.58	140.20	671.48	144.60	667.08
5/30/2013	771.00	0.00	77.60	733.81	109.20	702.23	116.40	694.98	99.20	712.48	140.20	671.48	144.60	667.08
6/6/2013	770.80		77.50	733.91	109.10	702.33	116.50	694.88	99.20	712.48	140.30	671.38	144.60	667.08
6/13/2013	769.30		77.50	733.91	109.10	702.33	116.50	694.88	99.20	712.48	140.30	671.38	144.60	667.08
6/20/2013	769.00		77.50	733.91	109.10	702.33	116.50	694.88	99.20	712.48	140.30	671.38	144.60	667.08
6/26/2013	768.60	0.00	77.50	733.91	109.10	702.33	116.50	694.88	99.20	712.48	140.30	671.38	144.60	667.08
7/2/2013	767.80		77.50	733.91	109.10	702.33	116.50	694.88	99.20	712.48	140.30	671.38	144.60	667.08
7/10/2013	766.90		77.50	733.91	109.10	702.33	116.60	694.78	99.20	712.48	140.30	671.38	144.60	667.08
7/16/2013	766.50		77.50	733.91	109.10	702.33	116.70	694.68	99.20	712.48	140.30	671.38	144.60	667.08
7/29/2013	765.20	0.00	77.50	733.91	109.10	702.33	116.70	694.68	99.20	712.48	140.30	671.38	144.60	667.08
8/5/2013	764.50		77.50	733.91	109.10	702.33	116.50	694.88	99.20	712.48	140.30	671.38	144.60	667.08
8/12/2013	763.80		77.50	733.91	109.10	702.33	116.90	694.48	99.20	712.48	140.30	671.38	144.60	667.08
8/19/2013	763.30		77.50	733.91	109.10	702.33	116.90	694.48	99.20	712.48	140.30	671.38	144.60	667.08
8/26/2013	762.40	0.00	77.50	733.91	109.10	702.33	116.90	694.48	99.40	712.28	140.30	671.38	144.60	667.08
9/2/2013	761.50		77.50	733.91	109.10	702.33	116.90	694.48	99.20	712.48	140.30	671.38	144.60	667.08
9/10/2013	760.70		77.50	733.91	109.30	702.13	117.20	694.18	99.50	712.18	140.30	671.38	144.60	667.08
9/17/2013	759.90		77.50	733.91	109.30	702.13	117.20	694.18	99.50	712.18	140.30	671.38	144.60	667.08
9/23/2013	759.40		77.50	733.91	109.30	702.13	117.20	694.18	99.50	712.18	140.30	671.38	144.60	667.08
9/30/2013	758.70	0.00	77.50	733.91	109.30	702.13	117.20	694.18	99.20	712.48	140.30	671.38	144.60	667.08
10/7/2013	758.30		77.50	733.91	109.40	702.03	117.30	694.08	99.20	712.48	140.30	671.38	144.60	667.08
10/14/2013	757.60		77.50	733.91	109.40	702.03	117.30	694.08	99.20	712.48	140.30	671.38	144.60	667.08
10/21/2013	756.60		77.50	733.91	109.40	702.03	117.50	693.88	99.20	712.48	140.30	671.38	144.60	667.08
10/28/2013	756.00	0.00	77.50	733.91	109.40	702.03	117.50	693.88	99.20	712.48	140.30	671.38	144.60	667.08
11/4/2013	755.70		77.50	733.91	109.40	702.03	117.90	693.48	99.20	712.48	140.30	671.38	144.70	666.98
11/11/2013	756.10		77.50	733.91	109.40	702.03	117.80	693.58	99.20	712.48	140.40	671.28	144.70	666.98
11/18/2013	755.70		77.50	733.91	109.40	702.03	117.90	693.48	99.20	712.48	140.40	671.28	144.70	666.98
11/25/2013	755.40	0.55	77.50	733.91	109.40	702.03	117.90	693.48	99.30	712.38	140.30	671.38	144.70	666.98
12/2/2013	755.30		77.50	733.91	109.40	702.03	117.90	693.48	99.20	712.48	140.30	671.38	144.80	666.88
12/10/2013	755.40		77.50	733.91	109.40	702.03	118.00	693.38	99.60	712.08	140.30	671.38	144.90	666.78
12/16/2013	755.20		77.50	733.91	109.40	702.03	118.00	693.38	99.40	712.28	140.30	671.38	144.90	666.78
12/23/2013	755.20		77.50	733.91	109.40	702.03	118.20	693.18	99.30	712.38	140.30	671.38	144.90	666.78
12/30/2013	754.80	0.83	77.50	733.91	109.40	702.03	118.20	693.18	99.20	712.48	140.30	671.38	144.90	666.78
1/6/2014	754.50		77.50	733.91	109.20	702.23	118.20	693.18	100.20	711.48	140.40	671.28	145.00	666.68
1/13/2014	755.00		77.50	733.91	109.20	702.23	118.40	692.98	99.80	711.88	140.40	671.28	145.00	666.68
1/20/2014	754.60		77.50	733.91	109.20	702.23	118.40	692.98	99.60	712.08	140.40	671.28	145.00	666.68
1/27/2014	754.30	0.00	77.50	733.91	109.20	702.23	118.40	692.98	99.30	712.38	140.40	671.28	145.00	666.68
2/3/2014	754.10		77.50	733.91	109.20	702.23	118.60	692.78	100.30	711.38	140.30	671.38	145.00	666.68
2/10/2014	754.70		77.50	733.91	109.20	702.23	118.60	692.78	100.00	711.68	140.20	671.48	145.00	666.68
2/17/2014	754.50		77.50	733.91	109.20	702.23	118.60	692.78	99.90	711.78	140.20	671.48	145.00	666.68
2/24/2014	754.20	0.83	77.50	733.91	109.20	702.23	118.70	692.68	99.80	711.88	140.40	671.28	145.00	666.68
3/3/2014	754.50		77.50	733.91	109.20	702.23	118.80	692.58	99.80	711.88	140.40	671.28	145.00	666.68

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
3/10/2014	755.20		77.50	733.91	109.20	702.23	118.70	692.68	99.70	711.98	140.30	671.38	145.00	666.68
3/19/2014	755.90		77.50	733.91	109.20	702.23	118.80	692.58	99.90	711.78	140.30	671.38	145.00	666.68
3/25/2014	758.80		77.50	733.91	109.20	702.23	118.80	692.58	99.90	711.78	140.30	671.38	145.00	666.68
3/29/2014	760.50		77.50	733.91	109.20	702.23	118.80	692.58	99.90	711.78	140.30	671.38	145.00	666.68
3/31/2014	761.60	1.85	77.50	733.91	109.20	702.23	118.80	692.58	99.80	711.88	140.30	671.38	145.00	666.68
4/1/2014	762.00		77.50	733.91	109.20	702.23	118.90	692.48	99.90	711.78	140.30	671.38	145.00	666.68
4/8/2014	764.70		77.50	733.91	109.20	702.23	118.90	692.48	99.90	711.78	140.30	671.38	145.00	666.68
4/15/2014	766.60		77.50	733.91	109.20	702.23	118.90	692.48	99.90	711.78	140.30	671.38	145.00	666.68
4/22/2014	768.60		77.50	733.91	109.20	702.23	119.10	692.28	99.90	711.78	140.30	671.38	145.00	666.68
4/29/2014	770.40	0.88	77.50	733.91	109.20	702.23	119.10	692.28	99.90	711.78	140.30	671.38	145.00	666.68
5/5/2014	769.70		77.50	733.91	109.20	702.23	119.20	692.18	99.90	711.78	140.30	671.38	145.00	666.68
5/12/2014	769.00		77.50	733.91	109.20	702.23	119.20	692.18	99.90	711.78	140.30	671.38	145.00	666.68
5/19/2014	768.00		77.50	733.91	109.20	702.23	119.20	692.18	99.90	711.78	140.30	671.38	145.00	666.68
5/26/2014	767.10	0.00	77.50	733.91	109.20	702.23	119.20	692.18	99.90	711.78	140.30	671.38	145.00	666.68
6/2/2014	766.20		77.50	733.91	109.20	702.23	119.30	692.08	99.90	711.78	140.30	671.38	144.90	666.78
6/9/2014	765.40		77.50	733.91	109.20	702.23	119.30	692.08	99.90	711.78	140.30	671.38	144.90	666.78
6/16/2014	764.30		77.50	733.91	109.20	702.23	119.30	692.08	99.90	711.78	140.30	671.38	144.90	666.78
6/23/2014	763.10		77.50	733.91	109.20	702.23	119.30	692.08	99.90	711.78	140.30	671.38	144.90	666.78
6/27/2014	762.30	0.00	77.50	733.91	109.20	702.23	119.30	692.08	99.90	711.78	140.30	671.38	144.90	666.78
7/7/2014	760.90		77.50	733.91	109.20	702.23	119.40	691.98	99.90	711.78	140.30	671.38	144.90	666.78
7/14/2014	760.00		77.50	733.91	109.20	702.23	119.40	691.98	99.90	711.78	140.30	671.38	144.90	666.78
7/21/2014	759.10		77.50	733.91	109.20	702.23	119.40	691.98	99.90	711.78	140.30	671.38	144.90	666.78
7/28/2014	757.90	0.06	77.50	733.91	109.20	702.23	119.40	691.98	99.90	711.78	140.30	671.38	144.90	666.78
8/4/2014	756.80		77.50	733.91	109.20	702.23	119.50	691.88	99.90	711.78	140.30	671.38	144.90	666.78
8/11/2014	755.60		77.50	733.91	109.20	702.23	119.50	691.88	99.90	711.78	140.30	671.38	144.90	666.78
8/18/2014	754.70		77.50	733.91	109.20	702.23	119.50	691.88	99.90	711.78	140.30	671.38	144.90	666.78
8/25/2014	753.30	0.05	77.50	733.91	109.20	702.23	119.50	691.88	99.90	711.78	140.30	671.38	144.90	666.78
9/2/2014	751.60		77.50	733.91	109.20	702.23	119.60	691.78	99.90	711.78	140.30	671.38	144.90	666.78
9/8/2014	750.50		77.50	733.91	109.20	702.23	119.60	691.78	99.90	711.78	140.30	671.38	144.90	666.78
9/15/2014	749.40		77.50	733.91	109.20	702.23	119.60	691.78	99.90	711.78	140.30	671.38	144.90	666.78
9/22/2014	748.30		77.50	733.91	109.20	702.23	119.60	691.78	99.90	711.78	140.30	671.38	144.90	666.78
9/29/2014	747.20	0.00	77.50	733.91	109.20	702.23	119.60	691.78	99.90	711.78	140.30	671.38	144.90	666.78
10/6/2014	745.70		77.50	733.91	109.20	702.23	119.80	691.58	99.90	711.78	140.30	671.38	144.90	666.78
10/13/2014	746.70		77.50	733.91	109.20	702.23	119.80	691.58	99.90	711.78	140.30	671.38	144.90	666.78
10/20/2014	746.60		77.50	733.91	109.20	702.23	119.90	691.48	100.00	711.68	140.30	671.38	144.90	666.78
10/27/2014	745.80	0.00	77.50	733.91	109.20	702.23	119.90	691.48	100.00	711.68	140.30	671.38	145.00	666.68
11/3/2014	746.40		77.50	733.91	109.20	702.23	119.90	691.48	100.00	711.68	140.30	671.38	145.00	666.68
11/10/2014	747.20		77.50	733.91	109.20	702.23	119.90	691.48	100.00	711.68	140.30	671.38	145.00	666.68
11/17/2014	747.70		77.50	733.91	109.20	702.23	119.90	691.48	100.00	711.68	140.30	671.38	145.00	666.68
11/24/2014	748.80	0.61	77.50	733.91	109.20	702.23	119.90	691.48	100.00	711.68	140.30	671.38	145.00	666.68
12/1/2014	748.30		77.50	733.91	109.20	702.23	120.10	691.28	100.00	711.68	140.30	671.38	145.00	666.68
12/8/2014	749.10		77.50	733.91	109.20	702.23	120.10	691.28	100.00	711.68	140.00	671.68	145.00	666.68

- Notes:
1. Readings in red are classified as erroneous.
 2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
12/15/2014	749.80		77.50	733.91	109.20	702.23	120.10	691.28	100.00	711.68	140.00	671.68	145.10	666.58
12/29/2014	750.90	5.37	77.50	733.91	109.20	702.23	120.20	691.18	100.00	711.68	140.40	671.28	145.20	666.48
1/5/2015	751.30		77.50	733.91	109.20	702.23	120.20	691.18	100.00	711.68	140.40	671.28	145.20	666.48
1/12/2015	751.80		77.50	733.91	109.20	702.23	120.30	691.08	99.90	711.78	140.20	671.48	145.20	666.48
1/19/2015	752.30		77.50	733.91	109.20	702.23	120.30	691.08	99.90	711.78	140.20	671.48	145.20	666.48
1/26/2015	752.60	1.48	77.50	733.91	109.20	702.23	120.30	691.08	99.90	711.78	140.20	671.48	145.20	666.48
2/4/2015	753.10		77.50	733.91	109.20	702.23	120.20	691.18	100.00	711.68	140.40	671.28	145.20	666.48
2/9/2015	753.30		77.50	733.91	109.20	702.23	120.30	691.08	100.00	711.68	140.40	671.28	145.20	666.48
2/16/2015	753.80		77.50	733.91	109.20	702.23	120.40	690.98	100.00	711.68	140.40	671.28	145.20	666.48
2/23/2015	753.90	0.44	77.50	733.91	109.20	702.23	120.40	690.98	100.00	711.68	140.40	671.28	145.20	666.48
3/2/2015	754.50		77.50	733.91	109.20	702.23	120.40	690.98	100.00	711.68	140.40	671.28	145.20	666.48
3/9/2015	755.00		77.50	733.91	109.20	702.23	120.40	690.98	100.00	711.68	140.40	671.28	145.20	666.48
3/16/2015	755.30		77.50	733.91	109.20	702.23	120.40	690.98	100.00	711.68	140.20	671.48	145.20	666.48
3/23/2015	755.50		77.50	733.91	109.20	702.23	120.40	690.98	100.00	711.68	140.20	671.48	145.20	666.48
3/30/2015	755.70	0.57	77.50	733.91	109.20	702.23	120.50	690.88	100.00	711.68	140.20	671.48	145.20	666.48
4/6/2015	755.60		77.50	733.91	109.20	702.23	120.50	690.88	100.00	711.68	140.20	671.48	145.20	666.48
4/13/2015	755.80		77.50	733.91	109.20	702.23	120.60	690.78	100.00	711.68	140.20	671.48	145.20	666.48
4/20/2015	755.90		77.50	733.91	109.20	702.23	120.60	690.78	100.00	711.68	140.20	671.48	145.20	666.48
4/27/2015	755.90	0.20	77.50	733.91	109.20	702.23	120.60	690.78	100.00	711.68	140.20	671.48	145.20	666.48
5/4/2015	755.60		77.50	733.91	109.20	702.23	120.60	690.78	100.00	711.68	140.20	671.48	145.20	666.48
5/11/2015	755.30		77.50	733.91	109.20	702.23	120.60	690.78	100.00	711.68	140.20	671.48	145.20	666.48
5/18/2015	755.20		77.50	733.91	109.20	702.23	120.60	690.78	100.00	711.68	140.20	671.48	145.20	666.48
5/26/2015	755.30	0.95	77.50	733.91	109.20	702.23	120.60	690.78	100.00	711.68	140.20	671.48	145.20	666.48
6/1/2015	755.20		77.50	733.91	109.20	702.23	120.60	690.78	100.00	711.68	140.20	671.48	145.20	666.48
6/8/2015	755.10		77.50	733.91	109.20	702.23	120.60	690.78	100.00	711.68	140.20	671.48	145.20	666.48
6/15/2015	755.20		77.50	733.91	109.20	702.23	120.70	690.68	100.00	711.68	140.20	671.48	145.20	666.48
6/22/2015	754.80		77.50	733.91	109.20	702.23	120.80	690.58	100.00	711.68	140.20	671.48	145.20	666.48
6/29/2015	754.20	0.00	77.50	733.91	109.20	702.23	120.80	690.58	100.00	711.68	140.20	671.48	145.20	666.48
7/10/2015	753.30		77.50	733.91	109.20	702.23	120.90	690.48	100.00	711.68	140.10	671.58	145.50	666.18
7/15/2015	753.00		77.50	733.91	109.20	702.23	120.90	690.48	100.00	711.68	140.10	671.58	145.20	666.48
7/21/2015	752.80		77.50	733.91	109.20	702.23	120.90	690.48	100.00	711.68	140.40	671.28	145.00	666.68
7/28/2015	752.40	0.00	77.50	733.91	109.20	702.23	120.90	690.48	100.30	711.38	140.70	670.98	145.20	666.48
8/4/2015	752.00		77.50	733.91	109.20	702.23	120.90	690.48	100.30	711.38	140.70	670.98	145.20	666.48
8/11/2015	751.60		77.50	733.91	109.20	702.23	120.90	690.48	100.30	711.38	140.30	671.38	145.20	666.48
8/18/2015	751.10		77.50	733.91	109.20	702.23	120.90	690.48	100.30	711.38	140.30	671.38	145.20	666.48
8/25/2015	750.60	0.00	77.50	733.91	109.20	702.23	120.90	690.48	100.00	711.68	140.30	671.38	145.20	666.48
9/1/2015	749.90		77.50	733.91	109.20	702.23	120.90	690.48	100.00	711.68	140.30	671.38	145.20	666.48
9/8/2015	749.00		77.50	733.91	109.20	702.23	121.00	690.38	100.00	711.68	140.20	671.48	145.20	666.48
9/15/2015	748.70		77.50	733.91	109.20	702.23	121.00	690.38	100.00	711.68	140.20	671.48	145.20	666.48
9/22/2015	748.40		77.50	733.91	109.20	702.23	121.00	690.38	100.00	711.68	140.20	671.48	145.20	666.48
9/29/2015	748.00	2.27	77.50	733.91	109.20	702.23	121.10	690.28	100.00	711.68	140.20	671.48	145.20	666.48
10/6/2015	747.60		77.50	733.91	109.20	702.23	121.10	690.28	100.00	711.68	140.20	671.48	145.20	666.48

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
10/13/2015	747.10		77.50	733.91	109.20	702.23	121.20	690.18	100.00	711.68	140.20	671.48	145.20	666.48
10/20/2015	746.70		77.50	733.91	109.20	702.23	121.20	690.18	100.00	711.68	140.20	671.48	145.20	666.48
10/27/2015	746.00	0.56	77.50	733.91	109.20	702.23	121.10	690.28	100.00	711.68	140.20	671.48	145.20	666.48
11/4/2015	745.70		77.50	733.91	109.20	702.23	121.30	690.08	100.00	711.68	140.20	671.48	145.20	666.48
11/11/2015	745.20		77.50	733.91	109.20	702.23	121.30	690.08	100.00	711.68	140.20	671.48	145.20	666.48
11/18/2015	744.80		77.50	733.91	109.20	702.23	121.40	689.98	99.80	711.88	140.20	671.48	145.20	666.48
11/25/2015	744.20	0.12	77.50	733.91	109.20	702.23	121.30	690.08	100.00	711.68	140.20	671.48	145.20	666.48
12/1/2015	743.70		77.50	733.91	109.20	702.23	121.40	689.98	100.00	711.68	140.20	671.48	145.20	666.48
12/8/2015	743.10		77.50	733.91	109.20	702.23	121.40	689.98	100.00	711.68	140.20	671.48	145.20	666.48
12/15/2015	742.70		77.50	733.91	109.20	702.23	121.50	689.88	100.00	711.68	140.20	671.48	145.20	666.48
12/22/2015	742.30		77.50	733.91	109.20	702.23	121.50	689.88	100.00	711.68	140.20	671.48	145.20	666.48
12/29/2015	742.10	1.29	77.50	733.91	109.20	702.23	121.50	689.88	100.00	711.68	140.20	671.48	145.20	666.48
1/5/2016	741.70		77.50	733.91	109.20	702.23	121.50	689.88	100.00	711.68	140.20	671.48	145.30	666.38
1/12/2016	742.30		77.50	733.91	109.20	702.23	121.50	689.88	100.00	711.68	140.20	671.48	145.40	666.28
1/19/2016	742.00		77.50	733.91	109.20	702.23	121.50	689.88	100.00	711.68	140.20	671.48	145.30	666.38
1/26/2016	741.80	3.51	77.50	733.91	109.20	702.23	121.60	689.78	100.00	711.68	140.20	671.48	145.40	666.28
2/2/2016	741.40		77.50	733.91	109.20	702.23	121.50	689.88	100.00	711.68	140.20	671.48	145.40	666.28
2/9/2016	741.00		77.50	733.91	109.20	702.23	121.70	689.68	100.00	711.68	140.20	671.48	145.40	666.28
2/16/2016	740.50		77.50	733.91	109.20	702.23	121.60	689.78	100.00	711.68	140.20	671.48	145.40	666.28
2/23/2016	740.20	0.35	77.50	733.91	109.20	702.23	121.70	689.68	100.00	711.68	140.20	671.48	145.40	666.28
3/1/2016	739.70		77.50	733.91	109.20	702.23	121.70	689.68	100.00	711.68	140.20	671.48	145.40	666.28
3/9/2016	739.40		77.50	733.91	109.20	702.23	121.70	689.68	100.00	711.68	140.20	671.48	145.40	666.28
3/17/2016	739.30		77.50	733.91	109.20	702.23	121.70	689.68	100.00	711.68	140.20	671.48	145.40	666.28
3/23/2016	739.10		77.50	733.91	109.20	702.23	121.80	689.58	100.00	711.68	140.20	671.48	145.50	666.18
3/30/2016	738.50	1.59	77.50	733.91	109.20	702.23	121.80	689.58	100.00	711.68	140.20	671.48	145.50	666.18
4/6/2016	738.00		77.50	733.91	109.20	702.23	121.80	689.58	100.00	711.68	140.20	671.48	145.50	666.18
4/13/2016	737.60		77.50	733.91	109.20	702.23	121.90	689.48	98.00	713.68	140.20	671.48	145.50	666.18
4/20/2016	736.90		77.50	733.91	109.20	702.23	121.90	689.48	98.00	713.68	140.20	671.48	145.50	666.18
4/27/2016	736.20	0.07	77.50	733.91	109.20	702.23	121.90	689.48	98.00	713.68	140.20	671.48	145.50	666.18
5/4/2016	736.90		77.50	733.91	109.20	702.23	121.80	689.58	100.00	711.68	140.20	671.48	145.50	666.18
5/11/2016	737.50		77.50	733.91	109.20	702.23	122.00	689.38	100.00	711.68	140.20	671.48	145.50	666.18
5/18/2016	737.00		77.50	733.91	109.20	702.23	122.00	689.38	100.00	711.68	140.20	671.48	145.50	666.18
5/25/2016	737.60	1.21	77.50	733.91	109.20	702.23	122.00	689.38	100.00	711.68	140.20	671.48	145.50	666.18
6/1/2016	737.60		77.50	733.91	109.20	702.23	122.00	689.38	100.00	711.68	140.20	671.48	145.50	666.18
6/8/2016	737.90		77.50	733.91	109.20	702.23	122.00	689.38	100.00	711.68	140.20	671.48	145.50	666.18
6/15/2016	738.00		77.30	734.11	109.20	702.23	122.00	689.38	100.00	711.68	140.20	671.48	145.50	666.18
6/23/2016	737.70		77.30	734.11	109.20	702.23	122.00	689.38	100.00	711.68	140.20	671.48	145.50	666.18
6/29/2016	737.50	0.00	77.30	734.11	109.20	702.23	122.00	689.38	100.00	711.68	140.20	671.48	145.50	666.18
7/6/2016	737.40		77.50	733.91	109.20	702.23	122.10	689.28	100.00	711.68	140.20	671.48	145.50	666.18
7/15/2016	737.40		77.50	733.91	109.20	702.23	122.10	689.28	100.00	711.68	140.20	671.48	145.50	666.18
7/20/2016	737.10		77.50	733.91	109.20	702.23	122.10	689.28	99.80	711.88	140.20	671.48	145.50	666.18
7/27/2016	736.70	0.00	77.50	733.91	109.20	702.23	122.10	689.28	99.90	711.78	140.20	671.48	145.50	666.18

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
8/3/2016	736.90		77.50	733.91	109.20	702.23	122.30	689.08	100.00	711.68	140.20	671.48	145.50	666.18
8/10/2016	737.10		77.50	733.91	109.20	702.23	122.30	689.08	100.00	711.68	140.20	671.48	145.50	666.18
8/17/2016	736.60		77.50	733.91	109.20	702.23	122.30	689.08	100.30	711.38	140.30	671.38	145.50	666.18
8/24/2016	736.70		77.50	733.91	109.20	702.23	122.30	689.08	100.30	711.38	140.30	671.38	145.50	666.18
8/30/2016	736.70	0.00	77.50	733.91	109.20	702.23	122.30	689.08	100.30	711.38	140.50	671.18	145.50	666.18
9/7/2016	737.30		77.50	733.91	109.20	702.23	122.30	689.08	100.30	711.38	140.30	671.38	145.50	666.18
9/14/2016	737.90		77.50	733.91	109.20	702.23	122.40	688.98	100.10	711.58	140.30	671.38	145.50	666.18
9/21/2016	738.80		77.50	733.91	109.20	702.23	122.40	688.98	100.10	711.58	140.30	671.38	145.50	666.18
9/28/2016	739.60	0.00	77.50	733.91	109.20	702.23	122.40	688.98	100.10	711.58	140.30	671.38	145.50	666.18
10/5/2016	739.50		77.50	733.91	109.20	702.23	122.30	689.08	100.10	711.58	140.30	671.38	145.50	666.18
10/12/2016	739.20		77.50	733.91	109.20	702.23	122.50	688.88	100.10	711.58	140.30	671.38	145.60	666.08
10/19/2016	739.30		77.50	733.91	109.20	702.23	122.50	688.88	100.10	711.58	140.30	671.38	145.60	666.08
10/26/2016	740.00	0.89	77.50	733.91	109.20	702.23	122.50	688.88	100.10	711.58	140.30	671.38	145.60	666.08
11/2/2016	741.80		77.50	733.91	109.20	702.23	122.50	688.88	100.10	711.58	140.30	671.38	145.60	666.08
11/9/2016	741.80		77.50	733.91	109.20	702.23	122.60	688.78	100.10	711.58	140.30	671.38	145.60	666.08
11/16/2016	744.00		77.50	733.91	109.20	702.23	122.60	688.78	100.10	711.58	140.30	671.38	145.60	666.08
11/23/2016	747.60		77.50	733.91	109.20	702.23	122.60	688.78	100.10	711.58	140.30	671.38	145.60	666.08
11/29/2016	750.90	1.62	77.50	733.91	109.20	702.23	122.60	688.78	100.10	711.58	140.30	671.38	145.60	666.08
12/7/2016	753.40		77.50	733.91	109.20	702.23	122.60	688.78	100.10	711.58	140.30	671.38	145.60	666.08
12/14/2016	753.70		77.50	733.91	109.20	702.23	122.60	688.78	100.10	711.58	140.30	671.38	145.60	666.08
12/21/2016	755.60		77.50	733.91	109.20	702.23	122.60	688.78	100.10	711.58	140.00	671.68	145.50	666.18
12/28/2016	757.00	4.37	77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	139.60	672.08	145.50	666.18
1/4/2017	757.50		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	139.60	672.08	145.50	666.18
1/13/2017	758.10		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.10	671.58	145.50	666.18
1/18/2017	758.30		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	139.60	672.08	145.50	666.18
1/25/2017	758.00	6.73	77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	138.40	673.28	145.60	666.08
2/1/2017	769.10		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	138.40	673.28	145.60	666.08
2/8/2017	769.70		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.30	671.38	145.40	666.28
2/15/2017	770.10		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.30	671.38	145.50	666.18
2/22/2017	771.80	4.17	77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.30	671.38	145.20	666.48
3/1/2017	771.90		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.30	671.38	145.20	666.48
3/8/2017	771.20		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.30	671.38	145.20	666.48
3/15/2017	770.60		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.20	671.48	145.20	666.48
3/22/2017	769.60		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.10	671.58	145.20	666.48
3/29/2017	768.40	0.13	77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.20	671.48	145.20	666.48
4/5/2017	769.10		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.20	671.48	145.20	666.48
4/12/2017	768.00		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.20	666.48
4/19/2017	767.90		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.00	666.68
4/26/2017	767.70	0.07	77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
5/1/2017	767.40		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
5/10/2017	766.50		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
5/17/2017	765.90		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
5/24/2017	765.70		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
5/30/2017	765.50	0.36	77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
6/7/2017	765.30		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
6/14/2017	765.10		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
6/21/2017	764.80		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
6/28/2017	764.70	0.05	77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
7/5/2017	764.20		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
7/12/2017	763.80		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
7/19/2017	763.20		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
7/26/2017	762.70	0.00	77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
8/2/2017	761.90		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
8/9/2017	761.60		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
8/16/2017	761.20		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
8/23/2017	760.60		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
8/30/2017	759.80	0.05	77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
9/6/2017	758.90		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.10	666.58
9/13/2017	758.70		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.10	671.58	145.10	666.58
9/20/2017	758.30		77.50	733.91	109.20	702.23	122.70	688.68	100.30	711.38	140.20	671.48	145.10	666.58
9/27/2017	757.80	0.00	77.50	733.91	109.20	702.23	122.70	688.68	100.30	711.38	140.20	671.48	145.10	666.58
10/4/2017	757.60		77.50	733.91	109.20	702.23	122.70	688.68	100.30	711.38	140.20	671.48	145.10	666.58
10/10/2017	757.10		77.50	733.91	109.20	702.23	122.70	688.68	100.30	711.38	140.20	671.48	145.10	666.58
10/18/2017	756.90		77.50	733.91	109.20	702.23	122.70	688.68	100.20	711.48	140.20	671.48	145.20	666.48
10/25/2017	756.60	0.00	77.50	733.91	109.20	702.23	122.70	688.68	100.10	711.58	140.20	671.48	145.20	666.48
11/1/2017	755.70		77.50	733.91	109.20	702.23	122.70	688.68	100.10	711.58	140.20	671.48	145.20	666.48
11/8/2017	755.30		77.50	733.91	109.20	702.23	122.70	688.68	100.10	711.58	140.20	671.48	145.20	666.48
11/15/2017	755.10	0.29	77.50	733.91	109.20	702.23	122.70	688.68	100.10	711.58	140.20	671.48	145.20	666.48
12/6/2017	754.20		77.50	733.91	109.20	702.23	122.70	688.68	100.20	711.48	140.20	671.48	145.20	666.48
12/13/2017	753.90		77.50	733.91	109.20	702.23	122.70	688.68	100.20	711.48	140.20	671.48	145.20	666.48
12/20/2017	753.60		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.20	671.48	145.20	666.48
12/27/2017	753.30	0.00	77.50	733.91	109.20	702.23	122.70	688.68	100.10	711.58	140.20	671.48	145.20	666.48
1/3/2018	753.10		77.50	733.91	109.20	702.23	122.70	688.68	100.10	711.58	140.20	671.48	145.20	666.48
1/10/2018	753.10		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.20	671.48	145.20	666.48
1/17/2018	753.00		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.20	671.48	145.20	666.48
1/24/2018	752.80		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.20	671.48	145.20	666.48
1/30/2018	752.60	1.79	77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.20	671.48	145.20	666.48
2/7/2018	752.30		77.50	733.91	109.20	702.23	122.70	688.68	100.00	711.68	140.20	671.48	145.20	666.48
2/14/2018	751.80		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.20	666.48
2/21/2018	750.20		77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.20	666.48
2/27/2018	750.30	0.60	77.50	733.91	109.20	702.23	122.80	688.58	100.00	711.68	140.20	671.48	145.20	666.48
3/7/2018	750.20		77.50	733.91	109.30	702.13	122.80	688.58	100.00	711.68	140.20	671.48	145.20	666.48
3/15/2018	750.10		77.50	733.91	109.30	702.13	122.80	688.58	100.10	711.58	140.30	671.38	145.30	666.38
3/21/2018	750.80		77.50	733.91	109.30	702.13	122.80	688.58	100.10	711.58	140.30	671.38	145.30	666.38

- Notes:
1. Readings in red are classified as erroneous.
 2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
3/28/2018	750.90	0.56	77.50	733.91	109.30	702.13	122.80	688.58	100.10	711.58	140.30	671.38	145.30	666.38
4/4/2018	751.70		77.50	733.91	109.30	702.13	122.80	688.58	100.10	711.58	140.30	671.38	145.30	666.38
4/11/2018	751.70		77.50	733.91	109.30	702.13	122.90	688.48	100.20	711.48	140.30	671.38	145.30	666.38
4/18/2018	750.80		77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38	140.30	671.38	145.30	666.38
4/25/2018	749.50	0.05	77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38	140.30	671.38	145.30	666.38
5/1/2018	750.50		77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38	140.30	671.38	145.30	666.38
5/8/2018	749.40		77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38	140.30	671.38	145.30	666.38
5/15/2018	748.30		77.50	733.91	109.30	702.13	122.90	688.48	100.20	711.48	140.10	671.58	145.30	666.38
5/22/2018	747.00		77.50	733.91	109.30	702.13	122.90	688.48	100.20	711.48	140.10	671.58	145.30	666.38
5/29/2018	745.60	0.32	77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38	140.20	671.48	145.40	666.28
6/6/2018	744.70		77.50	733.91	109.30	702.13	122.90	688.48	100.30	711.38	140.20	671.48	145.40	666.28
6/13/2018	743.70		77.50	733.91	109.30	702.13	123.00	688.38	100.30	711.38	140.30	671.38	145.40	666.28
6/20/2018	742.50		77.50	733.91	109.30	702.13	123.00	688.38	100.30	711.38	140.20	671.48	145.40	666.28
6/27/2018	741.20	0.00	77.50	733.91	109.30	702.13	123.00	688.38	100.30	711.38	140.20	671.48	145.40	666.28
7/5/2018	739.80		77.50	733.91	109.30	702.13	123.10	688.28	100.30	711.38	140.20	671.48	145.50	666.18
7/11/2018	738.70		77.50	733.91	109.30	702.13	123.10	688.28	100.30	711.38	140.20	671.48	145.50	666.18
7/18/2018	738.50		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38	140.20	671.48	145.50	666.18
7/25/2018	738.40	0.00	77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38	140.20	671.48	145.50	666.18
8/1/2018	738.10		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38	140.20	671.48	145.50	666.18
8/8/2018	737.80		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38	140.30	671.38	145.50	666.18
8/15/2018	737.70		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38	140.30	671.38	145.50	666.18
8/22/2018	737.90		77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38	140.30	671.38	145.50	666.18
8/29/2018	737.90	0.00	77.50	733.91	109.30	702.13	123.20	688.18	100.30	711.38	140.30	671.38	145.50	666.18
9/5/2018	738.00		77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48	140.30	671.38	145.50	666.18
9/12/2018	737.90		77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48	140.30	671.38	145.50	666.18
9/19/2018	737.60		77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48	140.30	671.38	145.50	666.18
9/26/2018	737.30	0.00	77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48	140.30	671.38	145.50	666.18
10/3/2018	737.50		77.50	733.91	109.30	702.13	123.20	688.18	100.20	711.48	140.30	671.38	145.50	666.18
10/10/2018	737.70		77.50	733.91	109.30	702.13	123.30	688.08	100.20	711.48	140.30	671.38	145.50	666.18
10/17/2018	738.20		77.50	733.91	109.30	702.13	123.30	688.08	100.20	711.48	140.30	671.38	145.50	666.18
10/24/2018	738.60		77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48	140.30	671.38	145.50	666.18
10/30/2018	738.50	0.69	77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48	140.30	671.38	145.50	666.18
11/7/2018	738.40		77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48	140.30	671.38	145.60	666.08
11/16/2018	737.70		77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48	140.30	671.38	145.60	666.08
11/21/2018	737.50		77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48	140.30	671.38	145.60	666.08
11/28/2018	737.20	1.66	77.50	733.91	109.30	702.13	123.40	687.98	100.20	711.48	140.30	671.38	145.60	666.08
12/5/2018	737.60		75.50	735.91	109.30	702.13	123.40	687.98	100.10	711.58	140.30	671.38	145.60	666.08
12/12/2018	737.70		75.50	735.91	109.30	702.13	123.40	687.98	100.10	711.58	140.30	671.38	145.60	666.08
12/19/2018	737.60		75.50	735.91	109.30	702.13	123.60	687.78	100.10	711.58	140.30	671.38	145.60	666.08
12/27/2018	737.40	2.05	75.50	735.91	109.30	702.13	123.70	687.68	100.20	711.48	140.30	671.38	145.60	666.08
1/2/2019	737.10		75.50	735.91	109.30	702.13	123.70	687.68	100.20	711.48	140.30	671.38	145.60	666.08
1/9/2019	738.40		75.50	735.91	109.30	702.13	123.70	687.68	100.20	711.48	140.30	671.38	145.70	665.98

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
1/16/2019	738.50		75.50	735.91	109.30	702.13	123.70	687.68	100.20	711.48	140.30	671.38	145.70	665.98
1/23/2019	740.80		75.50	735.91	109.30	702.13	123.70	687.68	100.10	711.58	140.30	671.38	145.70	665.98
1/30/2019	740.70	5.18	75.50	735.91	109.30	702.13	123.70	687.68	100.10	711.58	140.30	671.38	145.70	665.98
2/6/2019	745.80		75.50	735.91	109.30	702.13	123.70	687.68	100.10	711.58	140.30	671.38	145.70	665.98
2/13/2019	747.80		75.50	735.91	109.30	702.13	123.70	687.68	100.10	711.58	140.30	671.38	145.70	665.98
2/20/2019	764.70		75.50	735.91	109.30	702.13	123.50	687.88	100.10	711.58	140.30	671.38	145.70	665.98
2/27/2019	766.80	8.65	75.50	735.91	109.20	702.23	123.60	687.78	100.10	711.58	140.30	671.38	145.70	665.98
3/6/2019	769.50		75.50	735.91	109.20	702.23	123.50	687.88	100.10	711.58	140.30	671.38	145.40	666.28
3/13/2019	772.00		75.50	735.91	109.20	702.23	123.50	687.88	100.20	711.48	140.30	671.38	145.40	666.28
3/20/2019	773.30		75.50	735.91	109.20	702.23	123.50	687.88	100.20	711.48	140.30	671.38	145.40	666.28
3/27/2019	774.30	2.49	75.50	735.91	109.20	702.23	123.50	687.88	100.20	711.48	140.30	671.38	145.40	666.28
4/3/2019	774.50		75.50	735.91	109.20	702.23	123.50	687.88	100.20	711.48	140.30	671.38	145.40	666.28
4/10/2019	774.70		75.50	735.91	109.20	702.23	123.40	687.98	100.30	711.38	140.30	671.38	145.40	666.28
1/17/2019	774.80		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48	140.30	671.38	145.20	666.48
4/24/2019	774.90	0.10	75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48	140.30	671.38	145.20	666.48
5/1/2019	774.90		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48	140.30	671.38	145.20	666.48
5/8/2019	774.90		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48	140.30	671.38	145.20	666.48
5/15/2019	774.60		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48	140.30	671.38	145.10	666.58
5/22/2019	773.90		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48	140.20	671.48	145.00	666.68
5/29/2019	773.10	1.07	75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48	140.20	671.48	145.00	666.68
6/5/2019	772.10		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48	140.20	671.48	145.00	666.68
6/12/2019	770.80		75.50	735.91	109.20	702.23	123.40	687.98	100.20	711.48	140.20	671.48	145.10	666.58
6/19/2019	769.50		75.50	735.91	109.20	702.23	123.40	687.98	99.90	711.78	140.20	671.48	145.10	666.58
6/26/2019	768.10	0.03	75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18	140.20	671.48	145.00	666.68
7/3/2019	766.70		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18	140.20	671.48	145.00	666.68
7/5/2019	766.20		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18	140.20	671.48	145.00	666.68
7/10/2019	765.10		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18	140.30	671.38	145.00	666.68
7/17/2019	763.40		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18	140.30	671.38	145.00	666.68
7/24/2019	761.70		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18	140.30	671.38	145.00	666.68
7/30/2019	760.50	0.00	75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18	140.30	671.38	145.00	666.68
8/7/2019	759.60		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18	140.30	671.38	145.00	666.68
8/14/2019	758.80		75.50	735.91	109.20	702.23	123.40	687.98	99.50	712.18	140.20	671.48	145.00	666.68
8/21/2019	757.80		75.50	735.91	109.20	702.23	123.30	688.08	99.50	712.18	140.20	671.48	145.00	666.68
8/28/2019	757.20	0.00	75.50	735.91	109.20	702.23	123.30	688.08	99.50	712.18	140.20	671.48	145.00	666.68
9/4/2019	756.70		75.50	735.91	109.20	702.23	123.30	688.08	99.50	712.18	140.20	671.48	145.00	666.68
9/11/2019	756.30		75.50	735.91	109.20	702.23	123.10	688.28	99.40	712.28	140.20	671.48	145.00	666.68
9/18/2019	755.90		75.50	735.91	109.20	702.23	123.00	688.38	99.40	712.28	140.20	671.48	145.00	666.68
9/25/2019	755.20	0.00	75.50	735.91	109.20	702.23	122.90	688.48	99.40	712.28	140.30	671.38	145.00	666.68
10/2/2019	754.60		77.50	733.91	109.20	702.23	122.90	688.48	99.40	712.28	140.30	671.38	145.00	666.68
10/10/2019	754.30		77.50	733.91	109.20	702.23	122.90	688.48	99.40	712.28	140.30	671.38	145.10	666.58
10/16/2019	753.90		77.50	733.91	109.20	702.23	122.90	688.48	99.40	712.28	140.30	671.38	145.10	666.58
10/26/2019	752.70		77.50	733.91	109.20	702.23	122.90	688.48	99.40	712.28	140.30	671.38	145.10	666.58

- Notes:
1. Readings in red are classified as erroneous.
 2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
10/30/2019	752.30	0.00	77.60	733.81	109.20	702.23	122.80	688.58	99.40	712.28	140.30	671.38	145.10	666.58
11/6/2019	751.70		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28	140.30	671.38	145.10	666.58
11/13/2019	751.30		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28	140.30	671.38	145.10	666.58
11/20/2019	751.20		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28	140.30	671.38	145.10	666.58
11/27/2019	751.10	2.38	77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28	140.30	671.38	145.10	666.58
12/4/2019	751.20		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28	140.30	671.38	145.10	666.58
12/11/2019	751.40		77.50	733.91	109.20	702.23	122.80	688.58	99.40	712.28	140.20	671.48	145.20	666.48
12/18/2019	751.30		77.50	733.91	109.20	702.23	122.60	688.78	99.40	712.28	140.20	671.48	145.20	666.48
12/26/2019	751.60	4.61	77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28	140.20	671.48	145.20	666.48
1/2/2020	751.80		77.50	733.91	109.20	702.23	122.70	688.68	99.40	712.28	140.20	671.48	145.20	666.48
1/8/2020	751.90		77.50	733.91	109.20	702.23	122.50	688.88	100.20	711.48	140.20	671.48	145.20	666.48
1/15/2020	751.90		77.50	733.91	109.20	702.23	122.50	688.88	9.00		140.30	671.38	145.30	666.38
1/22/2020	751.90		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.10	671.58	145.30	666.38
1/29/2020	752.00	0.15	77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.30	666.38
2/5/2020	751.90		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.30	666.38
2/12/2020	751.90		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.30	666.38
2/19/2020	751.90		77.50	733.91	109.20	702.23	122.40	688.98	100.30	711.38	140.30	671.38	145.30	666.38
2/26/2020	751.90	0.53	77.50	733.91	109.20	702.23	122.40	688.98	100.30	711.38	140.30	671.38	145.30	666.38
3/4/2020	751.80		77.50	733.91	109.20	702.23	122.40	688.98	100.00	711.68	140.20	671.48	145.30	666.38
3/11/2020	751.80		77.50	733.91	109.20	702.23	122.40	688.98	99.70	711.98	140.20	671.48	145.30	666.38
3/18/2020	752.10		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.30	666.38
3/25/2020	753.30	4.31	77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.30	666.38
4/1/2020	753.60		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.30	666.38
4/8/2020	755.80		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.30	671.38	145.30	666.38
4/15/2020	760.50		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.30	671.38	145.20	666.48
4/22/2020	761.50		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.20	671.48	145.20	666.48
4/29/2020	761.90	3.88	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.20	671.48	145.20	666.48
5/6/2020	761.20		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.20	671.48	145.20	666.48
5/13/2020	762.10		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
5/20/2020	762.20		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
5/27/2020	762.10	0.03	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
6/3/2020	761.90		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
6/10/2020	761.80		77.50	733.91	109.20	702.23	122.20	689.18	99.50	712.18	140.10	671.58	145.20	666.48
6/19/2020	760.10		77.50	733.91	109.20	702.23	122.20	689.18	99.50	712.18	140.10	671.58	145.20	666.48
6/24/2020	759.00	0.00	77.50	733.91	109.20	702.23	122.20	689.18	99.50	712.18	140.10	671.58	145.20	666.48
7/1/2020	757.30		77.50	733.91	109.20	702.23	122.20	689.18	99.50	712.18	140.10	671.58	145.20	666.48
7/8/2020	755.80		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
7/15/2020	754.40		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
7/22/2020	752.90		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
7/29/2020	751.40	0.00	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
8/5/2020	749.90		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
8/12/2020	749.60		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48

- Notes:
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 2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
8/19/2020	749.10		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
8/26/2020	747.90	0.00	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
9/2/2020	746.40		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.20	666.48
9/9/2020	745.70		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.30	666.38
9/16/2020	745.20		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.30	666.38
9/19/2020	747.80		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.30	666.38
9/23/2020	749.40		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.30	666.38
9/30/2020	743.50	0.00	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.30	666.38
10/7/2020	742.70		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.40	666.28
10/14/2020	741.60		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.40	666.28
10/21/2020	740.30		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.20	671.48	145.40	666.28
10/28/2020	739.90	0.00	77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.40	666.28
11/4/2020	739.40		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.40	666.28
11/10/2020	739.20		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.40	666.28
11/18/2020	739.00		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.20	671.48	145.40	666.28
11/25/2020	738.80	0.54	77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.10	671.58	145.50	666.18
12/2/2020	738.50		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.10	671.58	145.50	666.18
12/9/2020	738.20		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.10	671.58	145.50	666.18
12/16/2020	738.00		77.50	733.91	109.20	702.23	122.40	688.98	100.00	711.68	140.10	671.58	145.50	666.18
12/23/2020	738.20	1.72	77.50	733.91	109.20	702.23	122.40	688.98	100.30	711.38	140.10	671.58	145.50	666.18
1/6/2021	742.10		77.50	733.91	109.20	702.23	122.40	688.98	100.30	711.38	140.10	671.58	145.50	666.18
1/13/2021	742.10		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08	140.10	671.58	145.60	666.08
1/20/2021	741.80		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.10	671.58	145.60	666.08
1/27/2021	741.70	1.36	77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.30	671.38	145.70	665.98
2/3/2021	741.80		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.30	671.38	145.70	665.98
2/10/2021	741.60		77.50	733.91	109.20	702.23	122.30	689.08	99.60	712.08	140.10	671.58	145.60	666.08
2/17/2021	741.40		77.50	733.91	109.20	702.23	122.30	689.08	99.50	712.18	140.10	671.58	145.60	666.08
2/24/2021	741.00	0.14	77.50	733.91	109.20	702.23	122.30	689.08	99.60	712.08	140.20	671.48	145.60	666.08
3/3/2021	740.80		77.50	733.91	109.20	702.23	122.30	689.08	100.10	711.58	140.20	671.48	145.60	666.08
3/10/2021	740.60		77.50	733.91	109.20	702.23	122.40	688.98	99.90	711.78	140.20	671.48	145.60	666.08
3/17/2021	741.00		77.50	733.91	109.20	702.23	122.40	688.98	99.70	711.98	140.20	671.48	145.60	666.08
3/24/2021	740.90		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08	140.30	671.38	145.60	666.08
3/31/2021	740.60	1.53	77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08	140.20	671.48	145.60	666.08
4/7/2021	740.80		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08	140.20	671.48	145.60	666.08
4/14/2021	740.70		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08	140.20	671.48	145.60	666.08
4/21/2021	741.30		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08	140.10	671.58	145.60	666.08
4/28/2021	742.00	0.00	77.50	733.91	109.20	702.23	122.40	688.98	99.70	711.98	140.20	671.48	145.60	666.08
5/5/2021	741.90		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.30	671.38	145.60	666.08
5/15/2021	740.80		77.50	733.91	109.20	702.23	122.40	688.98	99.60	712.08	140.30	671.38	145.60	666.08
5/19/2021	740.40		77.50	733.91	109.20	702.23	122.40	688.98	99.50	712.18	140.30	671.38	145.60	666.08
5/26/2021	740.10	0.05	77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18	140.20	671.48	145.60	666.08
6/2/2021	739.60		77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18	140.30	671.38	145.60	666.08

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
6/9/2021	738.30		77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18	140.30	671.38	145.60	666.08
6/16/2021	737.20		77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18	140.30	671.38	145.60	666.08
6/23/2021	736.00		77.40	734.01	109.20	702.23	122.50	688.88	99.50	712.18	140.20	671.48	145.60	666.08
6/30/2021	736.40	0.00	77.40	734.01	109.20	702.23	122.50	688.88	99.50	712.18	140.20	671.48	145.60	666.08
7/7/2021	737.00		77.50	733.91	109.20	702.23	122.50	688.88	99.50	712.18	140.30	671.38	145.60	666.08
7/14/2021	737.40		77.50	733.91	109.20	702.23	122.60	688.78	99.50	712.18	140.30	671.38	145.60	666.08
7/21/2021	737.80		77.50	733.91	109.20	702.23	122.60	688.78	99.50	712.18	140.30	671.38	145.60	666.08
7/28/2021	736.40	0.05	77.50	733.91	109.20	702.23	122.60	688.78	99.50	712.18	140.30	671.38	145.60	666.08
8/4/2021	736.30		77.40	734.01	109.20	702.23	122.70	688.68	99.50	712.18	140.30	671.38	145.60	666.08
8/11/2021	735.90		77.30	734.11	109.20	702.23	122.70	688.68	99.50	712.18	140.30	671.38	145.60	666.08
8/18/2021	735.90		77.20	734.21	109.20	702.23	122.70	688.68	99.50	712.18	140.30	671.38	145.60	666.08
8/25/2021	735.70	0.00	77.00	734.41	109.20	702.23	122.70	688.68	99.60	712.08	140.30	671.38	145.60	666.08
9/1/2021	735.60		77.00	734.41	109.20	702.23	122.70	688.68	99.50	712.18	140.30	671.38	145.60	666.08
9/8/2021	736.00		77.00	734.41	109.20	702.23	122.70	688.68	99.50	712.18	140.30	671.38	145.70	665.98
9/15/2021	737.00		77.00	734.41	109.20	702.23	122.70	688.68	99.50	712.18	140.30	671.38	145.70	665.98
9/22/2021	737.50		77.00	734.41	109.20	702.23	122.70	688.68	99.50	712.18	140.20	671.48	145.70	665.98
9/29/2021	738.00	0.00	76.90	734.51	109.20	702.23	122.70	688.68	99.50	712.18	140.30	671.38	145.70	665.98
10/6/2021	738.20		76.90	734.51	109.20	702.23	122.70	688.68	100.30	711.38	140.10	671.58	145.70	665.98
10/13/2021	738.70		77.50	733.91	109.20	702.23	122.70	688.68	100.30	711.38	140.10	671.58	145.70	665.98
10/22/2021	738.80		77.60	733.81	109.20	702.23	122.70	688.68	100.30	711.38	140.10	671.58	145.70	665.98
10/27/2021	739.00	0.46	77.40	734.01	109.20	702.23	122.70	688.68	100.30	711.38	140.20	671.48	145.70	665.98
11/3/2021	739.60		77.40	734.01	109.20	702.23	122.90	688.48	100.30	711.38	140.40	671.28	145.70	665.98
11/10/2021	740.20		77.40	734.01	109.20	702.23	122.90	688.48	100.30	711.38	140.40	671.28	145.70	665.98
11/17/2021	740.20		77.50	733.91	109.20	702.23	122.90	688.48	100.30	711.38	140.30	671.38	145.70	665.98
11/24/2021	739.90	0.00	77.50	733.91	109.20	702.23	122.90	688.48	100.30	711.38	140.30	671.38	145.70	665.98
12/1/2021	739.50		77.50	733.91	109.20	702.23	123.00	688.38	100.30	711.38	140.30	671.38	145.70	665.98
12/8/2021	739.40		77.50	733.91	109.20	702.23	123.00	688.38	100.30	711.38	140.30	671.38	145.70	665.98
12/15/2021	740.00		77.50	733.91	109.20	702.23	123.00	688.38	99.70	711.98	140.30	671.38	145.70	665.98
12/22/2021	740.00		77.50	733.91	109.20	702.23	123.00	688.38	99.60	712.08	140.30	671.38	145.70	665.98
12/29/2021	743.00	7.24	77.50	733.91	109.20	702.23	123.00	688.38	100.20	711.48	140.20	671.48	145.70	665.98
1/6/2022	744.20		77.50	733.91	109.20	702.23	123.00	688.38	99.60	712.08	140.20	671.48	145.70	665.98
1/12/2022	744.20		77.50	733.91	109.20	702.23	123.00	688.38	99.60	712.08	140.30	671.38	145.70	665.98
1/19/2022	744.10		77.50	733.91	109.20	702.23	123.00	688.38	100.30	711.38	140.30	671.38	145.70	665.98
1/26/2022	744.00	0.05	77.50	733.91	109.20	702.23	123.00	688.38	99.60	712.08	140.30	671.38	145.60	666.08
2/2/2022	743.80		77.50	733.91	109.20	702.23	123.10	688.28	99.60	712.08	140.20	671.48	145.70	665.98
2/9/2022	743.70		77.50	733.91	109.20	702.23	123.10	688.28	99.60	712.08	140.40	671.28	145.70	665.98
2/16/2022	743.60		77.50	733.91	109.20	702.23	123.10	688.28	99.60	712.08	140.30	671.38	145.70	665.98
2/28/2022	743.40	0.04	77.50	733.91	109.20	702.23	123.10	688.28	100.30	711.38	140.40	671.28	145.70	665.98
3/2/2022	743.30		77.50	733.91	109.20	702.23	123.10	688.28	99.60	712.08	140.40	671.28	145.70	665.98
3/9/2022	743.10		77.50	733.91	109.20	702.23	123.10	688.28	99.60	712.08	140.40	671.28	145.70	665.98
3/16/2022	743.00		77.50	733.91	109.20	702.23	123.20	688.18	99.60	712.08	140.40	671.28	145.70	665.98
3/23/2022	742.80		77.50	733.91	109.20	702.23	123.30	688.08	99.60	712.08	140.30	671.38	145.70	665.98

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
3/30/2022	742.10	1.28	77.50	733.91	109.20	702.23	123.40	687.98	99.60	712.08	140.20	671.48	145.70	665.98
4/6/2022	741.90		77.50	733.91	109.20	702.23	123.40	687.98	99.60	712.08	140.20	671.48	145.70	665.98
4/13/2022	741.60		77.50	733.91	109.20	702.23	123.40	687.98	100.20	711.48	140.20	671.48	145.70	665.98
4/20/2022	741.10		77.50	733.91	109.20	702.23	123.40	687.98	99.60	712.08	140.20	671.48	145.70	665.98
4/27/2022	740.20	0.25	77.50	733.91	109.20	702.23	123.40	687.98	99.60	712.08	140.20	671.48	145.70	665.98
5/4/2022	739.30		77.50	733.91	109.20	702.23	123.30	688.08	99.60	712.08	140.20	671.48	145.70	665.98
5/11/2022	738.10		77.50	733.91	109.20	702.23	123.30	688.08	99.60	712.08	140.20	671.48	145.70	665.98
5/18/2022	737.90		77.50	733.91	109.20	702.23	123.30	688.08	100.20	711.48	140.20	671.48	145.70	665.98
5/25/2022	737.00	0.00	77.50	733.91	109.20	702.23	123.40	687.98	100.40	711.28	140.20	671.48	145.70	665.98
6/1/2022	737.00		77.40	734.01	109.20	702.23	123.40	687.98	100.20	711.48	140.20	671.48	145.70	665.98
6/8/2022	738.00		77.40	734.01	109.20	702.23	123.40	687.98	100.20	711.48	140.20	671.48	145.70	665.98
6/15/2022	738.60		77.40	734.01	109.20	702.23	123.40	687.98	100.40	711.28	140.30	671.38	145.70	665.98
6/22/2022	741.70		77.40	734.01	109.20	702.23	123.40	687.98	100.30	711.38	140.40	671.28	145.70	665.98
6/29/2022	742.80	0.00	77.40	734.01	109.20	702.23	123.40	687.98	100.30	711.38	140.50	671.18	145.70	665.98
7/6/2022	744.60		77.40	734.01	109.20	702.23	123.40	687.98	100.30	711.38	140.50	671.18	145.70	665.98
7/13/2022	745.50		77.40	734.01	109.20	702.23	123.50	687.88	100.30	711.38	140.50	671.18	145.70	665.98
7/20/2022	745.50		77.40	734.01	109.20	702.23	123.50	687.88	100.30	711.38	140.50	671.18	145.70	665.98
7/27/2022	744.50	0.03	77.40	734.01	109.20	702.23	123.50	687.88	100.30	711.38	140.50	671.18	145.60	666.08
8/3/2022	743.00		77.40	734.01	109.20	702.23	123.50	687.88	100.30	711.38	140.50	671.18	145.60	666.08
8/10/2022	742.10		77.50	733.91	109.20	702.23	123.60	687.78	100.30	711.38	140.50	671.18	145.60	666.08
8/17/2022	744.60		77.50	733.91	109.20	702.23	123.60	687.78	100.30	711.38	140.50	671.18	145.60	666.08
8/24/2022	746.60		77.50	733.91	109.20	702.23	123.60	687.78	100.30	711.38	140.50	671.18	145.60	666.08
8/31/2022	748.70	0.03	77.50	733.91	109.20	702.23	123.60	687.78	100.30	711.38	140.50	671.18	145.60	666.08
9/7/2022	749.60		77.40	734.01	109.20	702.23	123.60	687.78	100.30	711.38	140.40	671.28	145.60	666.08
9/14/2022	749.00		77.40	734.01	109.20	702.23	123.60	687.78	100.30	711.38	140.40	671.28	145.60	666.08
9/21/2022	747.60		77.40	734.01	109.20	702.23	123.60	687.78	100.30	711.38	140.40	671.28	145.60	666.08
9/28/2022	746.00	0.29	77.40	734.01	109.20	702.23	123.60	687.78	100.30	711.38	140.40	671.28	145.60	666.08
10/5/2022	744.90		77.40	734.01	109.20	702.23	123.60	687.78	100.30	711.38	140.40	671.28	145.60	666.08
10/12/2022	743.90		77.40	734.01	109.20	702.23	123.60	687.78	100.30	711.38	140.50	671.18	145.60	666.08
10/19/2022	743.70		77.40	734.01	109.20	702.23	123.70	687.68	100.30	711.38	140.50	671.18	145.60	666.08
10/26/2022	743.50	0.44	77.40	734.01	109.20	702.23	123.70	687.68	100.30	711.38	140.60	671.08	145.60	666.08
11/2/2022	743.40		77.40	734.01	109.20	702.23	123.70	687.68	100.30	711.38	140.60	671.08	145.60	666.08
11/9/2022	744.40		77.40	734.01	109.20	702.23	123.70	687.68	100.30	711.38	140.60	671.08	145.60	666.08
11/16/2022	744.30		77.40	734.01	109.20	702.23	123.70	687.68	100.30	711.38	140.50	671.18	145.60	666.08
11/23/2022	744.00		77.40	734.01	109.20	702.23	123.70	687.68	100.30	711.38	140.50	671.18	145.60	666.08
11/30/2022	743.70	1.24	77.40	734.01	109.20	702.23	123.70	687.68	100.30	711.38	140.50	671.18	145.60	666.08
12/1/2022	739.50		77.40	734.01	109.20	702.23	123.00	688.38	100.30	711.38	140.20	671.48	145.70	665.98
12/8/2022	739.40		77.40	734.01	109.20	702.23	123.00	688.38	100.30	711.38	140.20	671.48	145.70	665.98
12/15/2022	740.00		77.50	733.91	109.20	702.23	123.00	688.38	99.70	711.98	140.20	671.48	145.70	665.98
12/22/2022	740.00		77.50	733.91	109.20	702.23	123.00	688.38	99.60	712.08	140.20	671.48	145.70	665.98
12/29/2022	742.00	2.62	77.50	733.91	109.20	702.23	123.00	688.38	100.20	711.48	140.20	671.48	145.70	665.98
1/4/2023	745.60		77.50	733.91	109.20	702.23	123.80	687.58	100.30	711.38	140.50	671.18	145.50	666.18

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
1/11/2023	748.90		77.50	733.91	109.20	702.23	123.80	687.58	100.30	711.38	140.50	671.18	145.50	666.18
1/18/2023	758.90		77.50	733.91	109.20	702.23	123.80	687.58	100.40	711.28	140.60	671.08	145.50	666.18
1/25/2023	760.90	6.31	77.50	733.91	109.20	702.23	123.80	687.58	100.40	711.28	140.60	671.08	145.60	666.08
2/1/2023	761.50		78.00	733.41	109.20	702.23	123.80	687.58	100.40	711.28	140.80	670.88	145.60	666.08
2/8/2023	761.80		78.00	733.41	109.20	702.23	123.80	687.58	100.40	711.28	140.80	670.88	145.60	666.08
2/15/2023	762.00		78.00	733.41	109.20	702.23	123.80	687.58	100.40	711.28	140.80	670.88	145.60	666.08
2/22/2023	762.20	2.95	78.00	733.41	109.20	702.23	123.80	687.58	100.40	711.28	140.80	670.88	145.60	666.08
3/1/2023	763.60		77.90	733.51	109.20	702.23	123.80	687.58	100.60	711.08	140.40	671.28	144.90	666.78
3/8/2023	764.10		77.90	733.51	109.20	702.23	123.80	687.58	100.40	711.28	140.30	671.38	144.80	666.88
3/15/2023	764.30		77.90	733.51	109.20	702.23	123.70	687.68	100.40	711.28	140.30	671.38	144.80	666.88
3/22/2023	772.80		77.90	733.51	109.20	702.23	123.70	687.68	100.40	711.28	140.30	671.38	144.80	666.88
3/29/2023	775.60	6.45	77.90	733.51	109.20	702.23	123.70	687.68	100.40	711.28	140.30	671.38	144.80	666.88
4/5/2023	777.40		77.90	733.51	109.20	702.23	123.70	687.68	100.40	711.28	140.50	671.18	145.10	666.58
4/12/2023	778.90		77.90	733.51	109.20	702.23	123.60	687.78	100.40	711.28	140.40	671.28	145.20	666.48
4/19/2023	779.50		77.90	733.51	109.20	702.23	123.70	687.68	100.40	711.28	140.50	671.18	145.20	666.48
4/26/2023	779.80	0.10	77.90	733.51	109.20	702.23	123.70	687.68	100.40	711.28	140.50	671.18	145.20	666.48
5/3/2023	779.80		77.80	733.61	109.20	702.23	123.00	688.38	100.40	711.28	140.50	671.18	145.20	666.48
5/10/2023	779.90		77.80	733.61	109.20	702.23	123.00	688.38	100.40	711.28	140.50	671.18	145.20	666.48
5/17/2023	779.70		77.80	733.61	109.20	702.23	123.00	688.38	100.40	711.28	140.50	671.18	145.20	666.48
5/24/2023	779.60	0.79	77.80	733.61	109.20	702.23	123.00	688.38	100.40	711.28	140.50	671.18	145.20	666.48
5/31/2023	779.20		77.80	733.61	109.20	702.23	123.00	688.38	100.40	711.28	140.50	671.18	145.20	666.48
6/7/2023	779.20		77.80	733.61	109.20	702.23	123.30	688.08	100.40	711.28	140.50	671.18	145.20	666.48
6/14/2023	778.90		77.80	733.61	109.20	702.23	123.30	688.08	100.40	711.28	140.50	671.18	145.20	666.48
6/21/2023	778.50		77.80	733.61	109.20	702.23	123.30	688.08	100.40	711.28	140.50	671.18	145.20	666.48
6/28/2023	777.90	0.09	77.80	733.61	109.20	702.23	123.30	688.08	100.40	711.28	140.50	671.18	145.20	666.48
7/5/2023	777.40		77.80	733.61	109.20	702.23	123.30	688.08	100.40	711.28	140.50	671.18	145.20	666.48
7/12/2023	776.70		77.80	733.61	109.20	702.23	123.00	688.38	100.20	711.48	140.50	671.18	144.60	667.08
7/19/2023	776.00		77.80	733.61	109.20	702.23	123.00	688.38	100.20	711.48	140.50	671.18	144.60	667.08
7/26/2023	775.00	0.00	77.80	733.61	109.20	702.23	123.00	688.38	100.20	711.48	140.50	671.18	144.60	667.08
8/3/2023	774.40		77.80	733.61	109.90	701.53	123.00	688.38	100.20	711.48	140.50	671.18	144.60	667.08
8/9/2023	774.00		77.80	733.61	109.90	701.53	123.00	688.38	100.20	711.48	140.50	671.18	144.60	667.08
8/16/2023	773.50		77.80	733.61	109.90	701.53	123.00	688.38	100.20	711.48	140.50	671.18	144.60	667.08
8/23/2023	773.50		77.80	733.61	109.90	701.53	123.00	688.38	100.20	711.48	140.50	671.18	144.60	667.08
8/31/2023	773.30	2.00	77.80	733.61	109.90	701.53	123.00	688.38	100.20	711.48	140.50	671.18	144.60	667.08
9/6/2023	773.20		77.80	733.61	109.90	701.53	122.00	689.38	100.20	711.48	140.50	671.18	144.60	667.08
9/13/2023	772.60		77.80	733.61	109.90	701.53	122.00	689.38	100.20	711.48	140.50	671.18	144.60	667.08
9/20/2023	772.10		77.80	733.61	109.90	701.53	122.00	689.38	100.20	711.48	140.50	671.18	144.60	667.08
9/27/2023	771.40	0.04	77.80	733.61	109.90	701.53	122.00	689.38	100.20	711.48	140.50	671.18	144.60	667.08
10/5/2023	770.40		77.80	733.61	109.90	701.53	121.70	689.68	100.20	711.48	140.50	671.18	144.60	667.08
10/12/2023	769.50		77.80	733.61	109.90	701.53	121.50	689.88	100.20	711.48	140.50	671.18	144.60	667.08
10/18/2023	768.30		77.80	733.61	109.90	701.53	121.60	689.78	100.20	711.48	140.50	671.18	144.60	667.08
10/25/2023	765.20	0.18	77.80	733.61	109.90	701.53	121.40	689.98	100.20	711.48	140.50	671.18	144.60	667.08

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
11/2/2023	762.70		77.80	733.61	109.90	701.53	121.40	689.98	100.20	711.48	140.50	671.18	144.60	667.08
11/8/2023	762.50		77.80	733.61	109.90	701.53	121.40	689.98	100.20	711.48	140.50	671.18	144.60	667.08
11/16/2023	762.40		77.80	733.61	109.90	701.53	121.40	689.98	100.20	711.48	140.50	671.18	144.60	667.08
11/21/2023	762.10		77.80	733.61	109.90	701.53	121.40	689.98	100.20	711.48	140.50	671.18	144.60	667.08
11/28/2023	761.60	0.52	77.80	733.61	109.90	701.53	121.40	689.98	100.20	711.48	140.50	671.18	144.80	666.88
12/7/2023	761.00		77.80	733.61	109.90	701.53	120.90	690.48	100.20	711.48	140.50	671.18	144.80	666.88
12/12/2023	760.70		77.80	733.61	109.90	701.53	120.90	690.48	100.20	711.48	140.50	671.18	144.80	666.88
12/19/2023	760.20	1.09	77.80	733.61	109.90	701.53	120.90	690.48	100.20	711.48	140.50	671.18	144.80	666.88
1/5/2024	759.50		77.80	733.61	109.90	701.53	120.90	690.48	100.20	711.48	140.50	671.18	145.00	666.68
1/11/2024	759.30		77.80	733.61	109.90	701.53	120.90	690.48	100.20	711.48	140.50	671.18	145.00	666.68
1/17/2024	758.90		77.80	733.61	109.90	701.53	120.90	690.48	101.00	710.68	140.50	671.18	145.00	666.68
1/25/2024	758.50	1.40	77.80	733.61	109.90	701.53	120.90	690.48	101.00	710.68	140.50	671.18	145.00	666.68
2/1/2024	758.10		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
2/7/2024	761.00		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
2/14/2024	761.80		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	144.50	667.18
2/22/2024	762.60		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	144.50	667.18
2/28/2024	761.80	8.20	77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	144.80	666.88
3/6/2024	762.50		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
3/15/2024	762.60		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
3/20/2024	762.40		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
3/26/2024	764.00	3.28	77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
4/3/2024	766.50		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
4/11/2024	768.10		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
4/17/2024	769.00		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
4/24/2024	769.60		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
5/1/2024	770.10		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
5/8/2024	770.30		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
5/15/2024	770.60		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
5/22/2024	770.50		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
5/29/2024	770.30	0.28	77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
6/5/2024	770.30		77.80	733.61	109.90	701.53	120.60	690.78	101.00	710.68	140.50	671.18	145.00	666.68
6/12/2024	770.20		77.10	734.31	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
6/19/2024	770.10		77.10	734.31	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
6/26/2024	769.80	0.00	77.10	734.31	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
7/3/2024	769.00		77.60	733.81	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
7/11/2024	768.20		77.80	733.61	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
7/16/2024	767.50		77.80	733.61	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
7/24/2024	766.60		77.80	733.61	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
7/31/2024	765.70	0.00	77.80	733.61	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
8/7/2024	764.80		77.60	733.81	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
8/15/2024	763.60		77.60	733.81	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
8/21/2024	762.70		77.60	733.81	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-1 Upper		R-1 Middle		R-1 Lower		R-2 Upper		R-2 Middle		R-2 Lower	
Top Ref. Elev. (ft)			811.500		811.500		811.500		811.900		811.900		811.900	
Top Ref. Elev. (ft) After 5/21/2012			811.405		811.425		811.380		811.675		811.675		811.675	
Tip Elev. (ft)			733.405		701.425		669.880		711.675		670.175		654.675	
Total Depth (ft)			78.0		110.0		141.5		100.0		141.5		157.0	
Total Depth (ft) After 5/21/2012			78.0		110.0		141.5		100.0		141.5		157.0	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-1U	R-1M	R-1L	R-2U	R-2M	R-2L						
8/29/2024	761.40	0.00	77.60	733.81	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
9/4/2024	760.60		77.60	733.81	109.90	701.53	120.50	690.88	101.00	710.68	140.50	671.18	145.00	666.68
9/18/2024	759.50		77.90	733.51	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.00	666.68
9/25/2024	759.20	0.00	78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.00	666.68
10/2/2024	758.90		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.00	666.68
10/10/2024	758.60		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.10	666.58
10/16/2024	758.40		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.00	666.68
10/25/2024	758.20		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.00	666.68
10/30/2024	758.10	0.00	78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.10	666.58
11/5/2024	757.90		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.10	666.58
11/13/2024	757.70		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.10	666.58
11/20/2024	757.60		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.20	666.48
11/27/2024	757.50	0.05	77.45	733.96	109.00	702.43	119.20	692.18	100.00	711.68	140.37	671.31	144.97	666.71
12/2/2024	757.40		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.20	666.48
12/11/2024	757.20		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.20	666.48
12/18/2024	757.10		78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.20	666.48
12/26/2024	757.10	0.00	78.00	733.41	109.90	701.53	120.00	691.38	101.00	710.68	140.50	671.18	145.20	666.48
1/23/2025	756.60	1.08	77.70	733.71	109.40	702.03	120.00	691.38	100.30	711.38	140.90	670.78	145.10	666.58
2/25/2025	757.80	3.39	77.50	733.91	108.90	702.53	119.30	692.08	100.00	711.68	140.20	671.48	145.10	666.58
3/26/2025	759.00	2.40	77.50	733.91	109.00	702.43	119.40	691.98	100.00	711.68	140.10	671.58	145.10	666.58
4/14/2025	759.00		77.50	733.91	109.00	702.43	119.40	691.98	100.00	711.68	140.20	671.48	145.00	666.68
4/24/2025	759.00	0.38	77.55	733.86	109.05	702.38	119.50	691.88	100.00	711.68	140.40	671.28	145.15	666.53
5/22/2025	758.90	0.12	77.60	733.81	109.10	702.33	119.50	691.88	100.10	711.58	140.50	671.18	145.20	666.48
6/18/2025	758.00	0.07	77.70	733.71	109.20	702.23	119.60	691.78	100.10	711.58	140.80	670.88	145.20	666.48
7/23/2025	755.30	0.00	77.60	733.81	109.10	702.33	119.80	691.58	100.10	711.58	140.40	671.28	145.30	666.38
8/21/2025	752.60	0.00	77.70	733.71	109.10	702.33	119.70	691.68	100.10	711.58	140.40	671.28	145.20	666.48
9/23/2025	748.80	0.09	77.80	733.61	109.10	702.33	119.80	691.58	100.10	711.58	140.50	671.18	145.20	666.48
10/23/2025	746.90	1.26	77.60	733.81	109.10	702.33	137.20	674.18	100.10	711.58	140.50	671.18	145.30	666.38
11/19/2025	746.90	5.18	77.50	733.91	109.00	702.43	119.90	691.48	100.00	711.68	139.20	672.48	145.10	666.58
12/16/2025	746.80	1.87	77.70	733.71	109.20	702.23	120.10	691.28	100.10	711.58	140.50	671.18	156.00	655.68

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number		R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower		
Top Ref. Elev. (ft)		812.200		812.200		812.200		752.100		752.100		
Top Ref. Elev. (ft) After 5/21/2012		812.000		812.025		811.995		754.455		754.455		
Tip Elev. (ft)		737.500		690.025		675.995		667.055		654.555		
Total Depth (ft)		74.5		122.0		136.0		85.0		96.5		
Total Depth (ft) After 5/21/2012		74.5		122.0		136.0		87.4		99.9		
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
1/10/2007	749.70		74.50	737.70	71.20	741.00	135.70	676.50	52.00	700.10	88.80	663.30
1/19/2007	749.40		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	88.90	663.20
1/29/2007	749.60		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	88.90	663.20
2/7/2007	750.00		74.50	737.70	71.20	741.00	135.70	676.50	52.00	700.10	88.90	663.20
2/16/2007	750.20		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	88.90	663.20
2/26/2007	750.60		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	89.00	663.10
3/6/2007	751.70		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	89.00	663.10
3/17/2007	755.10		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	89.10	663.00
3/25/2007	756.30		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	89.10	663.00
4/6/2007	760.00		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	89.10	663.00
4/16/2007	762.90		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.00	663.10
4/27/2007	767.10		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.00	663.10
5/9/2007	766.80		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	89.00	663.10
5/19/2007	764.80		74.50	737.70	71.20	741.00	135.70	676.50	52.10	700.00	89.00	663.10
5/29/2007	762.80		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.00	663.10
6/8/2007	761.20		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.00	663.10
6/18/2007	759.90		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.00	663.10
6/28/2007	758.10		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.00	663.10
7/10/2007	756.70		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.10	663.00
7/19/2007	755.80		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
7/30/2007	754.90		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
8/11/2007	754.40		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
8/22/2007	753.80		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
8/30/2007	753.30		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
9/7/2007	753.20		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
9/18/2007	753.00		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
9/27/2007	753.60		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
10/8/2007	754.90		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
10/17/2007	756.20		74.50	737.70	71.10	741.10	135.70	676.50	52.20	699.90	89.20	662.90
10/30/2007	757.80		74.50	737.70	71.10	741.10	135.70	676.50	52.30	699.80	89.10	663.00
11/9/2007	759.60		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.20	662.90
11/19/2007	763.60		74.50	737.70	71.10	741.10	135.70	676.50	52.20	699.90	89.10	663.00
11/28/2007	766.50		74.50	737.70	71.10	741.10	135.70	676.50	52.40	699.70	89.00	663.10
12/8/2007	768.70		74.50	737.70	71.10	741.10	135.70	676.50	52.10	700.00	89.00	663.10
12/18/2007	768.50		74.50	737.70	71.00	741.20	135.70	676.50	52.20	699.90	89.00	663.10
12/28/2007	769.30		74.50	737.70	70.50	741.70	135.70	676.50	52.40	699.70	89.00	663.10
1/9/2008	770.50		74.50	737.70	70.80	741.40	135.70	676.50	52.30	699.80	89.00	663.10
1/19/2008	770.30		74.50	737.70	70.70	741.50	135.70	676.50	52.40	699.70	89.00	663.10
1/29/2008	772.70		74.50	737.70	70.70	741.50	135.70	676.50	52.40	699.70	89.00	663.10
2/9/2008	774.10		74.50	737.70	70.80	741.40	135.70	676.50	52.40	699.70	89.00	663.10
2/19/2008	774.40		74.50	737.70	70.80	741.40	135.70	676.50	52.20	699.90	88.90	663.20
2/27/2008	775.00		74.50	737.70	70.70	741.50	135.70	676.50	52.20	699.90	88.90	663.20

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
3/7/2008	775.00		74.50	737.70	70.70	741.50	135.70	676.50	52.20	699.90	88.90	663.20
3/18/2008	775.00		74.50	737.70	70.70	741.50	135.70	676.50	52.20	699.90	89.00	663.10
3/29/2008	774.90		74.50	737.70	70.70	741.50	135.70	676.50	52.00	700.10	89.00	663.10
4/10/2008	775.00		74.50	737.70	70.70	741.50	135.70	676.50	52.00	700.10	89.00	663.10
4/20/2008	774.80		74.50	737.70	70.70	741.50	135.70	676.50	52.00	700.10	88.90	663.20
5/5/2008	774.65		74.50	737.70	70.70	741.50	135.70	676.50	52.00	700.10	89.00	663.10
5/13/2008	773.90		74.50	737.70	70.70	741.50	135.70	676.50	52.00	700.10	88.90	663.20
5/21/2008	772.85		74.50	737.70	70.70	741.50	135.70	676.50	52.00	700.10	89.00	663.10
5/31/2008	772.10		74.50	737.70	70.70	741.50	135.70	676.50	52.00	700.10	89.00	663.10
6/9/2008	771.20		74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
6/18/2008	770.50		74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
6/26/2008	769.60		74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
7/8/2008	768.10		74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
7/19/2008	766.60		74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
7/29/2008	765.50	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
8/4/2008	764.60	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
8/9/2008	764.25	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
8/19/2008	763.20	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
8/28/2008	762.25	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
9/6/2008	761.00	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
9/17/2008	760.10	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
9/29/2008	759.20	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
10/8/2008	759.00	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
10/18/2008	758.90	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
10/29/2008	761.30	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
11/8/2008	764.30	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
11/17/2008	766.90	0.00	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
11/25/2008	769.90	1.71	74.50	737.70	70.80	741.40	135.70	676.50	52.00	700.10	89.00	663.10
12/4/2008	773.90		74.50	737.70	70.80	741.40	135.70	676.50	52.10	700.00	88.80	663.30
12/13/2008	777.30		74.50	737.70	70.50	741.70	135.70	676.50	52.10	700.00	88.80	663.30
12/21/2008	779.10		74.50	737.70	70.20	742.00	135.70	676.50	52.20	699.90	88.80	663.30
12/30/2008	779.40	3.99	74.50	737.70	69.80	742.40	135.70	676.50	52.20	699.90	88.80	663.30
1/8/2009	779.30		74.50	737.70	70.00	742.20	135.70	676.50	52.20	699.90	88.80	663.30
1/19/2009	778.50		74.50	737.70	69.90	742.30	135.70	676.50	52.20	699.90	88.80	663.30
1/29/2009	778.30	0.38	74.50	737.70	69.80	742.40	135.70	676.50	52.20	699.90	88.80	663.30
2/12/2009	779.80		74.50	737.70	69.80	742.40	135.70	676.50	52.20	699.90	88.80	663.30
2/19/2009	781.30		74.50	737.70	69.80	742.40	135.70	676.50	52.20	699.90	88.80	663.30
2/27/2009	782.20	4.33	74.50	737.70	69.80	742.40	135.70	676.50	52.20	699.90	88.80	663.30
3/10/2009	782.70		74.50	737.70	69.80	742.40	135.70	676.50	52.20	699.90	88.80	663.30
3/20/2009	782.40		74.50	737.70	69.80	742.40	135.70	676.50	52.10	700.00	88.80	663.30
3/25/2009	782.20	0.43	74.50	737.70	69.80	742.40	135.70	676.50	51.90	700.20	88.70	663.40
4/4/2009	785.30		74.50	737.70	69.80	742.40	135.70	676.50	51.90	700.20	88.40	663.70

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
4/13/2009	788.50		74.50	737.70	69.80	742.40	135.70	676.50	51.90	700.20	88.30	663.80
4/21/2009	790.50		74.50	737.70	69.80	742.40	135.70	676.50	51.90	700.20	88.20	663.90
4/26/2009	791.20	0.00	74.50	737.70	69.80	742.40	135.70	676.50	51.90	700.20	88.20	663.90
5/4/2009	791.30		74.50	737.70	69.80	742.40	135.70	676.50	51.90	700.20	87.60	664.50
5/13/2009	790.60		74.50	737.70	69.80	742.40	135.70	676.50	51.90	700.20	87.50	664.60
5/21/2009	789.90		74.50	737.70	69.80	742.40	135.70	676.50	51.90	700.20	87.30	664.80
5/30/2009	789.30	0.00	74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.20	664.90
6/8/2009	788.70		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.20	664.90
6/17/2009	788.20		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
6/27/2009	787.60	0.00	74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
7/7/2009	786.80		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
7/15/2009	786.10		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
7/22/2009	785.50		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
7/30/2009	784.70	0.00	74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
8/8/2009	783.90		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
8/15/2009	783.30		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
8/26/2009	782.30	0.00	74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
9/5/2009	781.50		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
9/12/2009	780.80		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
9/19/2009	780.20		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
9/28/2009	779.50	0.00	74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.10	665.00
10/8/2009	778.50		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.20	664.90
10/19/2009	777.80		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.20	664.90
10/30/2009	776.80	0.24	74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.40	664.70
11/9/2009	776.10		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.50	664.60
11/20/2009	775.40		74.50	737.70	69.90	742.30	135.70	676.50	52.00	700.10	87.70	664.40
11/28/2009	774.90	0.00	74.50	737.70	69.90	742.30	135.70	676.50	52.00	700.10	87.80	664.30
12/9/2009	774.60		74.50	737.70	69.90	742.30	135.70	676.50	52.10	700.00	87.90	664.20
12/18/2009	774.60		74.50	737.70	69.90	742.30	135.70	676.50	52.10	700.00	87.90	664.20
12/29/2009	774.30	3.56	74.50	737.70	69.90	742.30	135.70	676.50	52.10	700.00	87.90	664.20
1/9/2010	773.90		74.50	737.70	69.90	742.30	135.70	676.50	52.10	700.00	87.90	664.20
1/17/2010	773.60		74.50	737.70	69.90	742.30	135.70	676.50	52.10	700.00	87.90	664.20
1/28/2010	779.90	7.84	74.50	737.70	69.90	742.30	135.70	676.50	52.10	700.00	87.90	664.20
2/4/2010	780.15		74.50	737.70	69.90	742.30	135.70	676.50	52.00	700.10	87.80	664.30
2/12/2010	783.40		74.50	737.70	69.90	742.30	135.70	676.50	51.90	700.20	87.80	664.30
2/19/2010	784.00		74.50	737.70	69.90	742.30	135.70	676.50	51.80	700.30	87.80	664.30
2/26/2010	784.45	2.69	74.50	737.70	69.90	742.30	135.70	676.50	51.60	700.50	87.60	664.50
3/6/2010	785.60		74.50	737.70	69.70	742.50	135.70	676.50	51.60	700.50	87.60	664.50
3/15/2010	786.20		74.50	737.70	69.50	742.70	135.50	676.70	51.50	700.60	87.60	664.50
3/16/2010	786.30		74.50	737.70	69.50	742.70	135.50	676.70	51.50	700.60	87.60	664.50
3/24/2010	786.20	2.03	74.50	737.70	69.50	742.70	135.70	676.50	51.40	700.70	87.60	664.50
4/2/2010	785.80		74.50	737.70	69.00	743.20	135.80	676.50	51.50	700.60	87.60	664.50

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
4/4/2010	785.80		74.50	737.70	69.00	743.20	135.80	676.40	51.50	700.60	87.60	664.50
4/12/2010	787.40		74.50	737.70	69.00	743.20	135.90	676.30	51.50	700.60	87.50	664.60
4/20/2010	790.10		74.50	737.70	69.00	743.20	136.00	676.20	51.50	700.60	87.40	664.70
4/28/2010	792.60	1.19	74.50	737.70	69.00	743.20	136.00	676.20	51.50	700.60	87.30	664.80
5/6/2010	792.90		74.50	737.70	69.00	743.20	136.00	676.20	51.50	700.60	87.40	664.70
5/14/2010	792.40		74.50	737.70	69.00	743.20	136.00	676.10	51.50	700.60	87.30	664.80
5/21/2010	792.10		74.50	737.70	69.10	743.10	136.10	676.10	51.50	700.60	87.10	665.00
5/29/2010	791.70	0.00	74.50	737.70	69.10	743.10	136.10	676.10	51.50	700.60	87.00	665.10
6/8/2010	791.00		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
6/15/2010	790.60		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.80	665.30
6/22/2010	790.10		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.70	665.40
6/29/2010	789.70	0.00	74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.70	665.40
7/8/2010	789.20		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.80	665.30
7/16/2010	788.70		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.70	665.40
7/23/2010	788.30		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.80	665.30
7/31/2010	787.70	0.00	74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.80	665.30
8/7/2010	787.30		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.80	665.30
8/15/2010	786.70		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
8/23/2010	786.10		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
8/29/2010	785.60	0.00	74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
9/8/2010	784.90		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
9/17/2010	784.20		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
9/27/2010	783.50	0.00	74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
10/8/2010	782.80		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
10/18/2010	782.20		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
10/28/2010	782.00	1.76	74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
11/4/2010	781.70		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
11/15/2010	781.10		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
11/26/2010	780.80	1.33	74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
12/8/2010	780.50		74.50	737.70	69.10	743.10	136.10	676.00	51.60	700.50	86.90	665.20
12/16/2010	780.40		74.50	737.70	69.10	743.10	136.10	676.10	51.60	700.50	86.90	665.20
12/30/2010	792.60	11.72	75.40	736.80	62.80	749.40	136.10	676.10				
1/6/2011	792.20		74.60	737.60	62.30	749.90	136.10	676.10				
1/7/2011	792.20		74.60	737.60	62.30	749.90	136.10	676.10	51.60	700.50	98.00	654.10
1/17/2011	792.00		74.60	737.60	62.30	749.90	136.10	676.10	51.80	700.30	97.00	655.10
1/27/2011	791.80	1.11	74.60	737.60	62.30	749.90	136.10	676.10	51.80	700.30	86.20	665.90
2/5/2011	791.80		74.60	737.60	62.10	750.10	136.10	676.00	51.80	700.30	86.20	665.90
2/15/2011	791.80		74.60	737.60	62.10	750.10	136.20	676.00	51.80	700.30	86.20	665.90
2/23/2011	792.20	2.87	74.60	737.60	62.00	750.20	136.20	676.00	51.80	700.30	86.20	665.90
3/8/2011	792.10		74.60	737.60	62.00	750.20	136.20	676.00	51.80	700.30	86.20	665.90
3/19/2011	791.80		74.60	737.60	62.00	750.20	136.20	676.00	51.80	700.30	86.20	665.90
3/30/2011	791.50	3.23	74.80	737.40	61.40	750.80	136.20	676.00	51.80	700.30	86.20	665.90

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
4/7/2011	792.10		74.80	737.40	61.30	750.90	136.20	676.00	51.80	700.30	86.20	665.90
4/16/2011	792.50		74.80	737.40	60.70	751.50	136.20	676.00	51.80	700.30	86.20	665.90
4/23/2011	792.60		74.70	737.50	60.40	751.80	136.20	676.00	51.80	700.30	86.20	665.90
4/30/2011	792.60	0.00	74.60	737.60	60.00	752.20	136.10	676.10	51.80	700.30	86.30	665.80
5/9/2011	792.40		74.60	737.60	60.00	752.20	136.10	676.00	51.70	700.40	86.30	665.80
5/16/2011	792.40		74.60	737.60	60.00	752.20	136.20	676.00	51.70	700.40	86.30	665.80
5/24/2011	792.40		74.60	737.60	59.90	752.30	136.20	675.90	51.70	700.40	86.30	665.80
5/31/2011	792.40	0.81	74.60	737.60	59.90	752.30	136.30	675.90	51.70	700.40	86.40	665.70
6/8/2011	792.10		74.60	737.60	59.90	752.30	136.30	675.90	51.70	700.40	86.40	665.70
6/16/2011	791.90		74.60	737.60	59.90	752.30	136.30	675.90	51.70	700.40	86.70	665.40
6/23/2011	791.80		74.60	737.60	59.90	752.30	136.30	675.90	51.70	700.40	86.40	665.70
6/30/2011	791.60	0.00	74.60	737.60	60.00	752.20	136.30	675.90	51.70	700.40	86.40	665.70
7/8/2011	791.40		74.60	737.60	59.90	752.30	136.30	675.90	51.70	700.40	86.40	665.70
7/14/2011	791.20		74.60	737.60	59.90	752.30	136.30	675.90	51.70	700.40	86.40	665.70
7/21/2011	790.90		74.60	737.60	59.90	752.30	136.30	675.90	51.70	700.40	86.40	665.70
7/30/2011	790.40	0.00	74.60	737.60	59.90	752.30	136.30	675.80	51.70	700.40	86.40	665.70
8/9/2011	789.90		74.60	737.60	59.90	752.30	136.40	675.80	51.70	700.40	86.50	665.60
8/15/2011	789.70		74.60	737.60	59.90	752.30	136.40	675.70	51.70	700.40	86.50	665.60
8/24/2011	789.00		74.60	737.60	59.90	752.30	136.50	676.30	51.70	700.40	86.60	665.50
9/1/2011	788.65	0.00	74.60	737.60	59.90	752.30	135.90	676.20	51.70	700.40	86.70	665.40
9/9/2011	787.90		74.60	737.60	59.90	752.30	136.00	676.10	51.80	700.30	86.70	665.40
9/16/2011	787.30		74.60	737.60	59.90	752.30	136.10	676.10	51.80	700.30	86.70	665.40
9/23/2011	787.00		74.60	737.60	59.90	752.30	136.10	676.10	51.80	700.30	86.80	665.30
9/29/2011	786.80	0.08	74.60	737.60	59.90	752.30	136.10	676.10	51.80	700.30	86.80	665.30
10/8/2011	786.60		74.60	737.60	59.90	752.30	136.10	676.10	51.80	700.30	86.90	665.20
10/15/2011	786.40		74.60	737.60	59.90	752.30	136.10	676.10	51.80	700.30	86.90	665.20
10/26/2011	786.00	1.29	74.60	737.60	59.90	752.30	136.10	676.10	51.80	700.30	87.00	665.10
11/5/2011	785.50		74.60	737.60	59.90	752.30	136.10	676.10	51.80	700.30	87.00	665.10
11/14/2011	785.40		74.60	737.60	59.90	752.30	136.10	676.20	51.80	700.30	87.00	665.10
11/22/2011	785.10		74.60	737.60	58.80	753.40	136.00	676.40	51.80	700.30	87.10	665.00
11/30/2011	785.10	1.79	74.60	737.60	59.30	752.90	135.80	676.40	51.80	700.30	87.10	665.00
12/9/2011	784.80		74.60	737.60	59.40	752.80	136.10	676.40	51.80	700.30	87.10	665.00
12/17/2011	784.60		74.60	737.60	59.50	752.70	136.10	676.40	51.90	700.20	87.10	665.00
12/22/2011	784.50		74.60	737.60	59.60	752.60	136.30	676.40	51.90	700.20	87.10	665.00
12/30/2011	784.30	0.45	74.60	737.60	59.80	752.40	136.30	675.90	51.90	700.20	87.10	665.00
1/7/2012	784.00		74.60	737.60	59.70	752.50	136.30	675.90	51.90	700.20	87.10	665.00
1/14/2012	783.80		74.60	737.60	59.60	752.60	136.30	675.90	51.90	700.20	87.10	665.00
1/21/2012	783.60		74.60	737.60	59.70	752.50	136.30	675.90	51.90	700.20	87.10	665.00
1/28/2012	783.60	1.72	74.60	737.60	59.70	752.50	136.30	676.10	51.90	700.20	87.10	665.00
2/7/2012	783.40		74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.10	665.00
2/15/2012	783.40		74.60	737.60	59.60	752.60	136.10	676.10	52.00	700.10	87.10	665.00
2/25/2012	783.40	0.62	74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.10	665.00

Notes:
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2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
3/5/2012	783.20		74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.10	665.00
3/15/2012	782.70		74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.10	665.00
3/22/2012	782.60	2.01	74.60	737.60	59.70	752.50	136.20	676.10	52.00	700.10	87.10	665.00
4/3/2012	782.50		74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.20	664.90
4/12/2012	782.10		74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.20	664.90
4/21/2012	782.00		74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.30	664.80
4/23/2012	781.90	1.32	74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.30	664.80
5/1/2012	781.70		74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.30	664.80
5/7/2012	781.30		74.60	737.60	59.70	752.50	136.10	676.10	52.00	700.10	87.30	664.80
5/21/2012	780.90		74.60	737.60	59.70	752.50	136.10	676.00	52.00	700.10	87.30	664.80
5/25/2012	780.00	0.06	4.30		59.70	752.33	136.00	676.00	54.80	699.66	88.30	666.16
6/4/2012	779.60		4.30		59.70	752.33	135.80	676.10	53.50	700.96	87.30	667.16
6/13/2012	778.70		4.30		59.70	752.33	135.90	676.10	53.70	700.76	87.30	667.16
6/20/2012	778.00		4.30		59.70	752.33	135.80	676.40	54.00	700.46	89.40	665.06
6/25/2012	777.30	0.00	4.30		59.70	752.33	135.60	676.40	54.80	699.66	90.30	664.16
7/4/2012	776.30		4.30		59.70	752.33	136.00	676.40	54.90	699.56	90.30	664.16
7/13/2012	775.70		4.30		59.70	752.33	135.90	676.00	54.90	699.56	90.40	664.06
7/20/2012	775.20		4.30		59.70	752.33	136.00	675.90	54.90	699.56	90.50	663.96
7/30/2012	775.00	0.10	4.30		59.70	752.33	136.10	675.90	55.00	699.46	90.50	663.96
8/8/2012	773.00		4.20		59.70	752.33	136.10	675.90	55.00	699.46	90.50	663.96
8/9/2012	772.90		4.20		59.70	752.33	136.10	675.90	55.00	699.46	90.60	663.86
8/18/2012	772.00		4.20		59.70	752.33	136.10	675.90	55.00	699.46	90.70	663.76
8/27/2012	771.10		4.20		59.70	752.33	136.10	675.90	55.00	699.46	90.70	663.76
8/29/2012	770.90	0.00	4.20		59.70	752.33	136.10	675.90	55.00	699.46	90.70	663.76
9/8/2012	769.80		4.20		59.70	752.33	136.10	675.90	55.00	699.46	90.70	663.76
9/15/2012	768.90		4.20		59.70	752.33	136.10	675.90	55.00	699.46	90.60	663.86
9/29/2012	767.80	0.00	4.20		59.70	752.33	136.10	675.90	55.00	699.46	90.60	663.86
10/11/2012	766.80		4.20		59.70	752.33	136.10	675.90	55.00	699.46	90.80	663.66
10/23/2012	765.90	1.10	4.20		59.70	752.33	136.10	675.90	55.00	699.46	91.00	663.46
11/12/2012	764.60		4.20		59.70	752.33	136.10	675.90	55.00	699.46	91.00	663.46
11/23/2012	764.30	0.16	4.20		59.70	752.33	136.10	675.90	55.10	699.36	91.20	663.26
12/12/2012	764.50	2.46	4.20		59.70	752.33	136.10	676.10	55.10	699.36	91.20	663.26
12/27/2012	769.10		4.20		59.70	752.33	136.10	676.10	55.10	699.36	91.20	663.26
1/16/2013	770.40		4.20		59.70	752.33	137.00	675.20	55.10	699.36	91.20	663.26
1/28/2013	769.90	1.82	4.20		59.70	752.33	137.00	676.10	55.10	699.36	91.30	663.16
2/15/2013	769.60		4.20		59.70	752.33	136.10	676.10	55.10	699.36	91.40	663.06
2/26/2013	769.40	0.68	4.20		59.70	752.33	136.10	676.20	55.10	699.36	91.40	663.06
3/13/2013	768.80		4.20		59.70	752.33	136.00	676.20	55.20	699.26	91.40	663.06
3/26/2013	768.60	0.66	4.20		59.70	752.33	136.00	676.20	55.20	699.26	91.40	663.06
4/10/2013	771.10		4.20		59.70	752.33	136.00	676.20	55.30	699.16	91.40	663.06
4/30/2013	772.20	0.00	4.20		59.70	752.33	136.00	676.20	55.30	699.16	91.40	663.06
5/9/2013	771.90		4.60		59.70	752.33	136.00	676.20	55.30	699.16	91.40	663.06

Notes:
1. Readings in red are classified as erroneous.
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TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
5/15/2013	771.70		73.80	738.20	59.70	752.33	136.00	676.20	55.30	699.16	91.40	663.06
5/22/2013	771.40		73.80	738.20	59.70	752.33	136.00	676.20	55.30	699.16	91.40	663.06
5/30/2013	771.00	0.00	73.80	738.20	59.70	752.33	136.00	676.50	55.30	699.16	91.30	663.16
6/6/2013	770.80		73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.30	663.16
6/13/2013	769.30		73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.30	663.16
6/20/2013	769.00		73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.40	663.06
6/26/2013	768.60	0.00	73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.30	663.16
7/2/2013	767.80		73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.30	663.16
7/10/2013	766.90		73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.30	663.16
7/16/2013	766.50		73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.40	663.06
7/29/2013	765.20	0.00	73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.40	663.06
8/5/2013	764.50		73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.30	663.16
8/12/2013	763.80		73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.30	663.16
8/19/2013	763.30		73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.50	662.96
8/26/2013	762.40	0.00	73.90	738.10	59.80	752.23	135.70	676.50	55.30	699.16	91.50	662.96
9/2/2013	761.50		73.90	738.10	59.80	752.23	135.70	676.00	55.30	699.16	91.30	663.16
9/10/2013	760.70		73.90	738.10	59.80	752.23	136.20	676.00	55.30	699.16	91.50	662.96
9/17/2013	759.90		73.90	738.10	59.80	752.23	136.20	676.00	55.30	699.16	91.50	662.96
9/23/2013	759.40		73.90	738.10	59.80	752.23	136.20	676.00	55.30	699.16	91.50	662.96
9/30/2013	758.70	0.00	73.90	738.10	59.80	752.23	136.20	676.30	55.30	699.16	91.50	662.96
10/7/2013	758.30		73.90	738.10	59.70	752.33	135.90	676.30	55.30	699.16	91.50	662.96
10/14/2013	757.60		73.90	738.10	59.70	752.33	135.90	676.50	55.30	699.16	91.50	662.96
10/21/2013	756.60		73.90	738.10	59.70	752.33	135.70	676.50	55.30	699.16	91.50	662.96
10/28/2013	756.00	0.00	73.90	738.10	59.70	752.33	135.70	676.30	55.40	699.06	91.60	662.86
11/4/2013	755.70		73.90	738.10	59.70	752.33	135.90	676.50	55.40	699.06	91.50	662.96
11/11/2013	756.10		73.90	738.10	59.70	752.33	135.70	676.50	55.40	699.06	91.70	662.76
11/18/2013	755.70		73.90	738.10	59.70	752.33	135.70	676.50	55.40	699.06	91.70	662.76
11/25/2013	755.40	0.55	73.90	738.10	59.70	752.33	135.70	676.30	55.40	699.06	91.70	662.76
12/2/2013	755.30		73.90	738.10	59.70	752.33	135.90	676.30	55.40	699.06	91.60	662.86
12/10/2013	755.40		73.90	738.10	59.70	752.33	135.90	676.50	55.40	699.06	91.60	662.86
12/16/2013	755.20		73.90	738.10	59.70	752.33	135.70	676.50	55.40	699.06	91.60	662.86
12/23/2013	755.20		73.90	738.10	59.70	752.33	135.70	676.50	55.40	699.06	91.70	662.76
12/30/2013	754.80	0.83	73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
1/6/2014	754.50		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
1/13/2014	755.00		73.90	738.10	59.70	752.33	135.80	676.50	55.50	698.96	91.80	662.66
1/20/2014	754.60		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
1/27/2014	754.30	0.00	73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
2/3/2014	754.10		73.90	738.10	59.70	752.33	135.70	676.10	55.50	698.96	91.80	662.66
2/10/2014	754.70		73.90	738.10	59.70	752.33	136.10	676.30	55.50	698.96	91.80	662.66
2/17/2014	754.50		73.90	738.10	59.70	752.33	135.90	676.00	55.50	698.96	91.80	662.66
2/24/2014	754.20	0.83	73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
3/3/2014	754.50		73.90	738.10	59.70	752.33	135.70	676.10	55.50	698.96	91.80	662.66

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
3/10/2014	755.20		73.90	738.10	59.70	752.33	136.10	676.50	55.50	698.96	91.80	662.66
3/19/2014	755.90		73.90	738.10	59.70	752.33	135.70	676.10	55.50	698.96	91.90	662.56
3/25/2014	758.80		73.90	738.10	59.70	752.33	136.10	676.10	55.50	698.96	91.90	662.56
3/29/2014	760.50		73.90	738.10	59.70	752.33	136.10	676.10	55.50	698.96	91.90	662.56
3/31/2014	761.60	1.85	73.90	738.10	59.70	752.33	136.10	676.10	55.60	698.86	91.80	662.66
4/1/2014	762.00		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
4/8/2014	764.70		73.90	738.10	59.70	752.33	135.70	676.30	55.50	698.96	91.80	662.66
4/15/2014	766.60		73.90	738.10	59.70	752.33	135.90	676.50	55.50	698.96	91.80	662.66
4/22/2014	768.60		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
4/29/2014	770.40	0.88	73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
5/5/2014	769.70		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
5/12/2014	769.00		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
5/19/2014	768.00		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
5/26/2014	767.10	0.00	73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
6/2/2014	766.20		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
6/9/2014	765.40		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
6/16/2014	764.30		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
6/23/2014	763.10		73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
6/27/2014	762.30	0.00	73.90	738.10	59.70	752.33	135.70	676.50	55.50	698.96	91.80	662.66
7/7/2014	760.90		73.90	738.10	59.70	752.33	135.70	676.00	55.60	698.86	91.80	662.66
7/14/2014	760.00		73.90	738.10	59.70	752.33	135.70	676.50	55.60	698.86	91.80	662.66
7/21/2014	759.10		73.90	738.10	59.70	752.33	135.70	676.50	55.60	698.86	91.80	662.66
7/28/2014	757.90	0.06	73.90	738.10	59.70	752.33	135.70	676.50	55.60	698.86	91.80	662.66
8/4/2014	756.80		73.90	738.10	59.70	752.33	135.70	676.50	55.60	698.86	91.80	662.66
8/11/2014	755.60		73.90	738.10	59.70	752.33	135.70	676.50	55.60	698.86	91.80	662.66
8/18/2014	754.70		73.90	738.10	59.70	752.33	135.70	676.50	55.60	698.86	91.90	662.56
8/25/2014	753.30	0.05	73.90	738.10	59.70	752.33	135.70	676.00	55.60	698.86	91.90	662.56
9/2/2014	751.60		73.90	738.10	59.70	752.33	136.20	676.00	55.60	698.86	91.80	662.66
9/8/2014	750.50		73.90	738.10	59.70	752.33	136.20	676.00	55.60	698.86	91.80	662.66
9/15/2014	749.40		73.90	738.10	59.70	752.33	135.70	676.50	55.60	698.86	91.80	662.66
9/22/2014	748.30		73.90	738.10	59.70	752.33	135.70	676.50	55.60	698.86	91.80	662.66
9/29/2014	747.20	0.00	73.90	738.10	59.70	752.33	135.70	676.00	55.70	698.76	92.00	662.46
10/6/2014	745.70		73.90	738.10	59.70	752.33	136.20	676.00	55.60	698.86	91.90	662.56
10/13/2014	746.70		73.90	738.10	59.70	752.33	136.20	676.00	55.60	698.86	92.00	662.46
10/20/2014	746.60		73.90	738.10	59.70	752.33	136.20	676.00	55.70	698.76	92.00	662.46
10/27/2014	745.80	0.00	73.90	738.10	59.70	752.33	136.20	676.00	55.70	698.76	92.00	662.46
11/3/2014	746.40		73.90	738.10	59.70	752.33	136.20	676.00	55.70	698.76	92.00	662.46
11/10/2014	747.20		73.90	738.10	59.70	752.33	136.20	676.50	55.70	698.76	92.00	662.46
11/17/2014	747.70		73.90	738.10	59.70	752.33	135.70	676.50	55.70	698.76	92.00	662.46
11/24/2014	748.80	0.61	73.90	738.10	59.70	752.33	135.70	676.50	55.70	698.76	92.00	662.46
12/1/2014	748.30		73.90	738.10	59.70	752.33	135.70	676.50	55.70	698.76	92.00	662.46
12/8/2014	749.10		73.90	738.10	59.70	752.33	135.70	676.50	55.70	698.76	92.00	662.46

- Notes:
1. Readings in red are classified as erroneous.
 2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
12/15/2014	749.80		73.90	738.10	59.70	752.33	135.70	676.50	55.70	698.76	92.00	662.46
12/29/2014	750.90	5.37	73.90	738.10	59.70	752.33	135.70	676.50	55.70	698.76	92.00	662.46
1/5/2015	751.30		73.90	738.10	59.70	752.33	135.70	676.00	55.70	698.76	92.00	662.46
1/12/2015	751.80		73.90	738.10	59.70	752.33	136.20	676.00	55.70	698.76	92.00	662.46
1/19/2015	752.30		73.90	738.10	59.70	752.33	136.20	676.00	55.70	698.76	92.00	662.46
1/26/2015	752.60	1.48	73.90	738.10	59.70	752.33	135.80	676.50	55.70	698.76	92.00	662.46
2/4/2015	753.10		73.90	738.10	59.70	752.33	135.70	676.50	55.70	698.76	92.00	662.46
2/9/2015	753.30		73.90	738.10	59.70	752.33	135.70	676.50	55.80	698.66	92.00	662.46
2/16/2015	753.80		73.90	738.10	59.70	752.33	135.70	676.50	55.80	698.66	92.00	662.46
2/23/2015	753.90	0.44	73.90	738.10	59.70	752.33	135.70	676.50	55.80	698.66	92.00	662.46
3/2/2015	754.50		73.90	738.10	59.70	752.33	135.70	676.00	55.80	698.66	92.00	662.46
3/9/2015	755.00		73.90	738.10	59.70	752.33	135.70	676.10	55.80	698.66	92.00	662.46
3/16/2015	755.30		73.90	738.10	59.70	752.33	136.10	676.10	55.80	698.66	92.00	662.46
3/23/2015	755.50		73.90	738.10	59.70	752.33	136.10	676.10	55.80	698.66	92.00	662.46
3/30/2015	755.70	0.57	73.90	738.10	59.70	752.33	136.10	676.10	55.80	698.66	92.00	662.46
4/6/2015	755.60		73.90	738.10	59.70	752.33	136.10	676.10	55.80	698.66	92.00	662.46
4/13/2015	755.80		73.90	738.10	59.80	752.23	136.10	676.10	55.80	698.66	92.00	662.46
4/20/2015	755.90		73.90	738.10	59.80	752.23	136.10	676.10	55.80	698.66	92.00	662.46
4/27/2015	755.90	0.20	73.90	738.10	59.80	752.23	136.10	676.50	55.80	698.66	92.00	662.46
5/4/2015	755.60		73.90	738.10	59.70	752.33	135.70	676.50	55.80	698.66	92.00	662.46
5/11/2015	755.30		73.90	738.10	59.70	752.33	135.70	676.10	55.80	698.66	92.00	662.46
5/18/2015	755.20		73.90	738.10	59.80	752.23	136.10	676.10	55.80	698.66	92.00	662.46
5/26/2015	755.30	0.95	73.90	738.10	59.80	752.23	136.10	676.10	55.80	698.66	92.00	662.46
6/1/2015	755.20		73.90	738.10	59.70	752.33	136.00	676.20	55.80	698.66	92.00	662.46
6/8/2015	755.10		73.90	738.10	59.70	752.33	136.00	676.20	55.80	698.66	92.00	662.46
6/15/2015	755.20		73.90	738.10	59.70	752.33	136.00	676.20	55.80	698.66	92.00	662.46
6/22/2015	754.80		73.90	738.10	59.70	752.33	136.00	676.20	55.80	698.66	92.00	662.46
6/29/2015	754.20	0.00	73.90	738.10	59.70	752.33	136.00	676.20	55.80	698.66	92.00	662.46
7/10/2015	753.30		73.90	738.10	59.70	752.33	136.00	676.20	65.80	688.66	92.00	662.46
7/15/2015	753.00		73.90	738.10	59.70	752.33	136.00	676.20	67.80	686.66	92.00	662.46
7/21/2015	752.80		73.90	738.10	59.70	752.33	136.00	676.20	69.40	685.06	92.00	662.46
7/28/2015	752.40	0.00	73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
8/4/2015	752.00		73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
8/11/2015	751.60		73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
8/18/2015	751.10		73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
8/25/2015	750.60	0.00	73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
9/1/2015	749.90		73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
9/8/2015	749.00		73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
9/15/2015	748.70		73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
9/22/2015	748.40		73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
9/29/2015	748.00	2.27	73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.00	662.46
10/6/2015	747.60		73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.00	662.46

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
10/13/2015	747.10		73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.00	662.46
10/20/2015	746.70		73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.00	662.46
10/27/2015	746.00	0.56	73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.00	662.46
11/4/2015	745.70		73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.00	662.46
11/11/2015	745.20		73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.00	662.46
11/18/2015	744.80		73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.00	662.46
11/25/2015	744.20	0.12	73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.00	662.46
12/1/2015	743.70		73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
12/8/2015	743.10		73.90	738.10	59.70	752.33	135.80	676.20	69.30	685.16	92.00	662.46
12/15/2015	742.70		73.90	738.10	59.70	752.33	135.80	676.20	69.30	685.16	92.00	662.46
12/22/2015	742.30		73.90	738.10	59.70	752.33	135.80	676.20	69.30	685.16	92.00	662.46
12/29/2015	742.10	1.29	73.90	738.10	59.70	752.33	136.00	676.20	69.30	685.16	92.00	662.46
1/5/2016	741.70		73.90	738.10	59.70	752.33	135.80	676.20	69.30	685.16	92.20	662.26
1/12/2016	742.30		73.90	738.10	59.70	752.33	135.80	676.20	69.30	685.16	92.20	662.26
1/19/2016	742.00		73.90	738.10	59.70	752.33	135.80	676.00	69.30	685.16	92.20	662.26
1/26/2016	741.80	3.51	73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.20	662.26
2/2/2016	741.40		73.90	738.10	59.70	752.33	136.00	676.00	69.30	685.16	92.20	662.26
2/9/2016	741.00		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.20	662.26
2/16/2016	740.50		73.90	738.10	59.80	752.23	136.00	676.20	69.30	685.16	92.20	662.26
2/23/2016	740.20	0.35	73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
3/1/2016	739.70		73.90	738.10	59.80	752.23	135.80	676.10	69.30	685.16	92.30	662.16
3/9/2016	739.40		73.90	738.10	59.80	752.23	135.90	676.10	69.30	685.16	92.10	662.36
3/17/2016	739.30		73.90	738.10	59.80	752.23	135.90	676.00	69.30	685.16	92.10	662.36
3/23/2016	739.10		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.10	662.36
3/30/2016	738.50	1.59	73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.10	662.36
4/6/2016	738.00		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.20	662.26
4/13/2016	737.60		73.90	738.10	59.80	752.23	136.00	676.00	69.40	685.06	92.20	662.26
4/20/2016	736.90		73.90	738.10	59.80	752.23	136.00	676.00	69.40	685.06	92.20	662.26
4/27/2016	736.20	0.07	73.90	738.10	59.80	752.23	136.00	675.00	69.40	685.06	92.20	662.26
5/4/2016	736.90		73.90	738.10	59.80	752.23	137.00	674.00	69.30	685.16	92.10	662.36
5/11/2016	737.50		73.90	738.10	59.80	752.23	138.00	673.00	69.30	685.16	92.10	662.36
5/18/2016	737.00		73.90	738.10	59.80	752.23	139.00	676.20	69.50	684.96	92.30	662.16
5/25/2016	737.60	1.21	73.90	738.10	59.80	752.23	135.80	676.20	69.50	684.96	92.30	662.16
6/1/2016	737.60		73.90	738.10	59.80	752.23	135.80	676.20	69.50	684.96	92.30	662.16
6/8/2016	737.90		73.90	738.10	59.80	752.23	135.80	676.20	69.50	684.96	92.30	662.16
6/15/2016	738.00		73.90	738.10	59.80	752.23	135.80	676.20	69.20	685.26	92.30	662.16
6/23/2016	737.70		73.90	738.10	59.80	752.23	135.80	676.20	69.20	685.26	92.30	662.16
6/29/2016	737.50	0.00	73.90	738.10	59.80	752.23	135.80	676.20	69.20	685.26	92.30	662.16
7/6/2016	737.40		73.90	738.10	59.80	752.23	135.80	676.00	69.20	685.26	92.30	662.16
7/15/2016	737.40		73.90	738.10	59.80	752.23	136.00	676.00	69.20	685.26	92.30	662.16
7/20/2016	737.10		73.90	738.10	59.80	752.23	136.00	676.00	69.20	685.26	92.30	662.16
7/27/2016	736.70	0.00	73.90	738.10	59.80	752.23	136.00	676.00	69.20	685.26	92.30	662.16

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
8/3/2016	736.90		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
8/10/2016	737.10		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
8/17/2016	736.60		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
8/24/2016	736.70		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
8/30/2016	736.70	0.00	73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
9/7/2016	737.30		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
9/14/2016	737.90		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
9/21/2016	738.80		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
9/28/2016	739.60	0.00	73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
10/5/2016	739.50		73.90	738.10	59.80	752.23	136.00	676.00	69.30	685.16	92.30	662.16
10/12/2016	739.20		73.90	738.10	59.80	752.23	136.00	676.00	69.20	685.26	92.30	662.16
10/19/2016	739.30		73.90	738.10	59.80	752.23	136.00	676.00	69.20	685.26	92.30	662.16
10/26/2016	740.00	0.89	73.90	738.10	59.80	752.23	136.00	675.00	69.20	685.26	92.30	662.16
11/2/2016	741.80		73.90	738.10	59.80	752.23	137.00	675.00	69.30	685.16	92.30	662.16
11/9/2016	741.80		73.90	738.10	59.80	752.23	138.00	676.20	69.30	685.16	92.30	662.16
11/16/2016	744.00		73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
11/23/2016	747.60		73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
11/29/2016	750.90	1.62	73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
12/7/2016	753.40		73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
12/14/2016	753.70		73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
12/21/2016	755.60		73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
12/28/2016	757.00	4.37	73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
1/4/2017	757.50		73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
1/13/2017	758.10		73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
1/18/2017	758.30		73.90	738.10	59.80	752.23	135.80	676.20	69.30	685.16	92.30	662.16
1/25/2017	758.00	6.73	73.90	738.10	59.80	752.23	135.80	676.20	69.40	685.06	91.80	662.66
2/1/2017	769.10		73.90	738.10	59.80	752.23	135.80	675.90	69.40	685.06	91.80	662.66
2/8/2017	769.70		73.90	738.10	59.80	752.23	136.10	675.90	69.40	685.06	91.80	662.66
2/15/2017	770.10		73.90	738.10	59.80	752.23	136.10	675.90	69.40	685.06	91.80	662.66
2/22/2017	771.80	4.17	73.90	738.10	59.80	752.23	136.10	675.90	69.40	685.06	91.80	662.66
3/1/2017	771.90		73.90	738.10	59.80	752.23	136.10	675.90	69.40	685.06	91.80	662.66
3/8/2017	771.20		73.90	738.10	59.80	752.23	136.10	675.00	69.40	685.06	91.80	662.66
3/15/2017	770.60		73.90	738.10	59.80	752.23	136.10	675.90	69.40	685.06	91.80	662.66
3/22/2017	769.60		73.90	738.10	59.80	752.23	136.10	675.90	69.40	685.06	91.80	662.66
3/29/2017	768.40	0.13	73.90	738.10	59.80	752.23	136.10	675.90	69.40	685.06	91.80	662.66
4/5/2017	769.10		73.90	738.10	59.80	752.23	136.10	676.20	69.40	685.06	91.80	662.66
4/12/2017	768.00		73.90	738.10	59.80	752.23	135.80	676.20	69.40	685.06	91.80	662.66
4/19/2017	767.90		73.90	738.10	59.80	752.23	135.80	676.20	69.50	684.96	92.30	662.16
4/26/2017	767.70	0.07	73.90	738.10	59.80	752.23	135.80	676.20	69.40	685.06	92.30	662.16
5/1/2017	767.40		73.90	738.10	59.80	752.23	135.80	676.20	69.40	685.06	92.30	662.16
5/10/2017	766.50		73.90	738.10	59.80	752.23	135.80	676.20	69.60	684.86	92.30	662.16
5/17/2017	765.90		73.90	738.10	59.80	752.23	135.80	676.20	69.60	684.86	92.30	662.16

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
5/24/2017	765.70		73.90	738.10	59.80	752.23	135.80	676.20	69.60	684.86	92.30	662.16
5/30/2017	765.50	0.36	73.90	738.10	59.80	752.23	135.80	676.20	69.60	684.86	92.30	662.16
6/7/2017	765.30		73.90	738.10	59.80	752.23	135.80	676.00	69.60	684.86	92.30	662.16
6/14/2017	765.10		73.90	738.10	59.80	752.23	136.00	676.00	69.60	684.86	92.30	662.16
6/21/2017	764.80		73.90	738.10	59.80	752.23	136.00	676.00	69.60	684.86	92.30	662.16
6/28/2017	764.70	0.05	73.90	738.10	59.80	752.23	136.00	676.00	69.60	684.86	92.30	662.16
7/5/2017	764.20		73.90	738.10	59.80	752.23	136.00	676.00	69.60	684.86	92.30	662.16
7/12/2017	763.80		73.90	738.10	59.80	752.23	136.00	676.00	69.60	684.86	91.80	662.66
7/19/2017	763.20		73.90	738.10	59.80	752.23	136.00	676.00	69.60	684.86	91.90	662.56
7/26/2017	762.70	0.00	73.90	738.10	59.80	752.23	136.00	676.00	69.60	684.86	91.90	662.56
8/2/2017	761.90		73.90	738.10	59.80	752.23	136.00	676.00	69.60	684.86	91.90	662.56
8/9/2017	761.60		73.90	738.10	59.80	752.23	136.00	676.00	69.40	685.06	91.90	662.56
8/16/2017	761.20		73.90	738.10	59.80	752.23	136.00	676.00	69.40	685.06	91.80	662.66
8/23/2017	760.60		73.90	738.10	59.80	752.23	136.00	676.00	69.40	685.06	91.90	662.56
8/30/2017	759.80	0.05	73.90	738.10	59.80	752.23	136.00	676.00	69.40	685.06	91.80	662.66
9/6/2017	758.90		73.90	738.10	59.80	752.23	136.00	676.00	69.40	685.06	91.80	662.66
9/13/2017	758.70		73.90	738.10	59.90	752.13	136.00	676.00	69.40	685.06	91.80	662.66
9/20/2017	758.30		73.90	738.10	59.90	752.13	136.00	676.00	69.20	685.26	91.80	662.66
9/27/2017	757.80	0.00	73.90	738.10	59.90	752.13	136.00	676.00	69.30	685.16	91.80	662.66
10/4/2017	757.60		73.90	738.10	59.90	752.13	136.00	676.00	69.30	685.16	91.80	662.66
10/10/2017	757.10		73.90	738.10	59.90	752.13	136.00	676.00	69.10	685.36	92.10	662.36
10/18/2017	756.90		73.90	738.10	59.90	752.13	136.00	676.00	68.90	685.56	92.10	662.36
10/25/2017	756.60	0.00	73.90	738.10	59.90	752.13	136.00	675.00	69.00	685.46	92.10	662.36
11/1/2017	755.70		73.90	738.10	59.90	752.13	137.00	676.20	69.00	685.46	92.10	662.36
11/8/2017	755.30		73.90	738.10	59.90	752.13	135.80	676.20	69.00	685.46	92.10	662.36
11/15/2017	755.10	0.29	73.90	738.10	59.90	752.13	135.80	676.20	69.00	685.46	92.10	662.36
12/6/2017	754.20		73.90	738.10	59.90	752.13	136.00	676.20	69.00	685.46	92.10	662.36
12/13/2017	753.90		73.90	738.10	59.90	752.13	136.00	676.10	69.00	685.46	92.10	662.36
12/20/2017	753.60		73.90	738.10	59.90	752.13	135.90	676.10	69.00	685.46	92.10	662.36
12/27/2017	753.30	0.00	73.90	738.10	59.90	752.13	135.80	676.10	69.00	685.46	92.10	662.36
1/3/2018	753.10		73.90	738.10	59.90	752.13	135.80	676.20	69.00	685.46	92.10	662.36
1/10/2018	753.10		73.90	738.10	59.90	752.13	136.00	676.00	69.00	685.46	91.90	662.56
1/17/2018	753.00		73.90	738.10	59.90	752.13	136.00	676.00	69.00	685.46	91.90	662.56
1/24/2018	752.80		73.90	738.10	59.90	752.13	136.00	676.00	69.00	685.46	91.90	662.56
1/30/2018	752.60	1.79	73.90	738.10	59.90	752.13	136.00	676.00	69.00	685.46	92.00	662.46
2/7/2018	752.30		73.90	738.10	59.90	752.13	136.00	676.00	69.00	685.46	91.90	662.56
2/14/2018	751.80		73.90	738.10	59.90	752.13	136.00	676.00	68.90	685.56	91.90	662.56
2/21/2018	750.20		73.90	738.10	59.90	752.13	136.00	676.00	69.30	685.16	92.10	662.36
2/27/2018	750.30	0.60	73.90	738.10	59.90	752.13	136.00	676.00	69.10	685.36	92.10	662.36
3/7/2018	750.20		73.90	738.10	59.90	752.13	136.00	676.00	69.10	685.36	92.10	662.36
3/15/2018	750.10		73.90	738.10	59.90	752.13	135.80	676.20	69.10	685.36	92.10	662.36
3/21/2018	750.80		73.90	738.10	59.90	752.13	136.00	676.00	69.10	685.36	92.10	662.36

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
3/28/2018	750.90	0.56	73.90	738.10	59.90	752.13	136.00	676.00	69.10	685.36	92.10	662.36
4/4/2018	751.70		73.70	738.30	59.90	752.13	136.00	676.00	69.10	685.36	92.10	662.36
4/11/2018	751.70		73.70	738.30	59.90	752.13	136.00	676.00	69.30	685.16	92.10	662.36
4/18/2018	750.80		73.90	738.10	59.90	752.13	136.00	676.00	69.30	685.16	92.10	662.36
4/25/2018	749.50	0.05	73.90	738.10	59.90	752.13	136.00	676.00	69.30	685.16	92.10	662.36
5/1/2018	750.50		73.90	738.10	59.90	752.13	136.00	676.00	69.30	685.16	92.10	662.36
5/8/2018	749.40		73.90	738.10	59.90	752.13	136.00	676.00	69.30	685.16	92.10	662.36
5/15/2018	748.30		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
5/22/2018	747.00		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
5/29/2018	745.60	0.32	73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
6/6/2018	744.70		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
6/13/2018	743.70		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
6/20/2018	742.50		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
6/27/2018	741.20	0.00	73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
7/5/2018	739.80		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
7/11/2018	738.70		73.90	738.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
7/18/2018	738.50		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
7/25/2018	738.40	0.00	73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
8/1/2018	738.10		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
8/8/2018	737.80		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
8/15/2018	737.70		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
8/22/2018	737.90		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
8/29/2018	737.90	0.00	73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	92.10	662.36
9/5/2018	738.00		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
9/12/2018	737.90		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
9/19/2018	737.60		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
9/26/2018	737.30	0.00	73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
10/3/2018	737.50		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
10/10/2018	737.70		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
10/17/2018	738.20		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
10/24/2018	738.60		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
10/30/2018	738.50	0.69	73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
11/7/2018	738.40		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
11/16/2018	737.70		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
11/21/2018	737.50		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
11/28/2018	737.20	1.66	73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
12/5/2018	737.60		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
12/12/2018	737.70		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
12/19/2018	737.60		73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
12/27/2018	737.40	2.05	73.90	738.10	60.00	752.03	136.00	676.00	69.30	685.16	90.10	664.36
1/2/2019	737.10		73.90	738.10	60.00	752.03	136.00	676.00	69.20	685.26	90.10	664.36
1/9/2019	738.40		73.90	738.10	60.00	752.03	136.00	676.00	69.20	685.26	90.10	664.36

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
1/16/2019	738.50		73.90	738.10	60.00	752.03	136.00	676.00	69.20	685.26	90.10	664.36
1/23/2019	740.80		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	90.10	664.36
1/30/2019	740.70	5.18	73.90	738.10	60.00	752.03	135.90	676.10	69.20	685.26	90.10	664.36
2/6/2019	745.80		73.90	738.10	60.00	752.03	135.90	676.10	69.20	685.26	92.10	662.36
2/13/2019	747.80		73.90	738.10	60.00	752.03	135.90	676.10	69.20	685.26	92.10	662.36
2/20/2019	764.70		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	92.10	662.36
2/27/2019	766.80	8.65	73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	91.70	662.76
3/6/2019	769.50		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	91.70	662.76
3/13/2019	772.00		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	91.70	662.76
3/20/2019	773.30		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	91.70	662.76
3/27/2019	774.30	2.49	73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	91.70	662.76
4/3/2019	774.50		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	92.80	661.66
4/10/2019	774.70		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	92.00	662.46
1/17/2019	774.80		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	92.10	662.36
4/24/2019	774.90	0.10	73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	92.10	662.36
5/1/2019	774.90		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	92.10	662.36
5/8/2019	774.90		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	92.10	662.36
5/15/2019	774.60		73.90	738.10	60.00	752.03	135.80	676.20	69.20	685.26	92.10	662.36
5/22/2019	773.90		73.90	738.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
5/29/2019	773.10	1.07	73.90	738.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
6/5/2019	772.10		73.90	738.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
6/12/2019	770.80		73.90	738.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
6/19/2019	769.50		73.90	738.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
6/26/2019	768.10	0.03	73.90	738.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
7/3/2019	766.70		73.90	738.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
7/5/2019	766.20		73.90	738.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
7/10/2019	765.10		73.90	738.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
7/17/2019	763.40		73.90	738.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
7/24/2019	761.70		73.90	738.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
7/30/2019	760.50	0.00	73.90	738.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
8/7/2019	759.60		73.90	738.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
8/14/2019	758.80		73.90	738.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
8/21/2019	757.80		73.90	738.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
8/28/2019	757.20	0.00	73.90	738.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
9/4/2019	756.70		75.90	736.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
9/11/2019	756.30		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
9/18/2019	755.90		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
9/25/2019	755.20	0.00	75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	91.90	662.56
10/2/2019	754.60		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	91.90	662.56
10/10/2019	754.30		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
10/16/2019	753.90		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
10/26/2019	752.70		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
10/30/2019	752.30	0.00	75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
11/6/2019	751.70		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
11/13/2019	751.30		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
11/20/2019	751.20		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
11/27/2019	751.10	2.38	75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
12/4/2019	751.20		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
12/11/2019	751.40		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
12/18/2019	751.30		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
12/26/2019	751.60	4.61	75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
1/2/2020	751.80		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
1/8/2020	751.90		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
1/15/2020	751.90		75.90	736.10	60.00	752.03	135.70	676.30	69.30	685.16	92.10	662.36
1/22/2020	751.90		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
1/29/2020	752.00	0.15	75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
2/5/2020	751.90		75.90	736.10	60.00	752.03	135.80	676.20	69.30	685.16	92.10	662.36
2/12/2020	751.90		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
2/19/2020	751.90		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
2/26/2020	751.90	0.53	75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
3/4/2020	751.80		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
3/11/2020	751.80		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
3/18/2020	752.10		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
3/25/2020	753.30	4.31	75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
4/1/2020	753.60		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
4/8/2020	755.80		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
4/15/2020	760.50		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
4/22/2020	761.50		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
4/29/2020	761.90	3.88	75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
5/6/2020	761.20		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
5/13/2020	762.10		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
5/20/2020	762.20		75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
5/27/2020	762.10	0.03	75.90	736.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
6/3/2020	761.90		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
6/10/2020	761.80		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
6/19/2020	760.10		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
6/24/2020	759.00	0.00	73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
7/1/2020	757.30		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
7/8/2020	755.80		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
7/15/2020	754.40		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
7/22/2020	752.90		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
7/29/2020	751.40	0.00	73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	92.10	662.36
8/5/2020	749.90		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
8/12/2020	749.60		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
8/19/2020	749.10		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
8/26/2020	747.90	0.00	73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
9/2/2020	746.40		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
9/9/2020	745.70		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
9/16/2020	745.20		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
9/19/2020	747.80		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
9/23/2020	749.40		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
9/30/2020	743.50	0.00	73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
10/7/2020	742.70		73.90	738.10	60.10	751.93	136.00	676.00	69.30	685.16	93.10	661.36
10/14/2020	741.60		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
10/21/2020	740.30		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
10/28/2020	739.90	0.00	73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
11/4/2020	739.40		73.90	738.10	60.10	751.93	135.80	676.20	69.30	685.16	93.10	661.36
11/10/2020	739.20		73.90	738.10	60.20	751.83	136.10	675.90	69.30	685.16	93.10	661.36
11/18/2020	739.00		73.90	738.10	60.10	751.93	136.10	675.90	69.30	685.16	93.10	661.36
11/25/2020	738.80	0.54	73.90	738.10	60.20	751.83	135.90	676.10	69.30	685.16	93.10	661.36
12/2/2020	738.50		73.90	738.10	60.20	751.83	135.90	676.10	69.30	685.16	93.10	661.36
12/9/2020	738.20		73.90	738.10	60.20	751.83	135.90	676.10	69.30	685.16	93.10	661.36
12/16/2020	738.00		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	93.10	661.36
12/23/2020	738.20	1.72	73.90	738.10	60.20	751.83	136.10	675.90	69.30	685.16	93.10	661.36
1/6/2021	742.10		73.90	738.10	60.20	751.83	136.10	675.90	69.30	685.16	93.10	661.36
1/13/2021	742.10		73.90	738.10	60.20	751.83	136.10	675.90	69.30	685.16	93.10	661.36
1/20/2021	741.80		73.90	738.10	60.20	751.83	136.10	675.90	69.30	685.16	93.10	661.36
1/27/2021	741.70	1.36	73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	93.10	661.36
2/3/2021	741.80		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	93.10	661.36
2/10/2021	741.60		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	93.10	661.36
2/17/2021	741.40		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	93.10	661.36
2/24/2021	741.00	0.14	73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	93.10	661.36
3/3/2021	740.80		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
3/10/2021	740.60		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
3/17/2021	741.00		73.90	738.10	60.20	751.83	135.90	676.10	69.30	685.16	92.10	662.36
3/24/2021	740.90		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
3/31/2021	740.60	1.53	73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
4/7/2021	740.80		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
4/14/2021	740.70		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
4/21/2021	741.30		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
4/28/2021	742.00	0.00	73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
5/5/2021	741.90		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
5/15/2021	740.80		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
5/19/2021	740.40		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
5/26/2021	740.10	0.05	73.90	738.10	60.20	751.83	136.10	675.90	69.30	685.16	92.10	662.36
6/2/2021	739.60		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
6/9/2021	738.30		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
6/16/2021	737.20		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
6/23/2021	736.00		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
6/30/2021	736.40	0.00	73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
7/7/2021	737.00		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
7/14/2021	737.40		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
7/21/2021	737.80		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
7/28/2021	736.40	0.05	73.90	738.10	60.20	751.83	136.00	676.00	69.30	685.16	92.10	662.36
8/4/2021	736.30		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
8/11/2021	735.90		73.90	738.10	60.20	751.83	135.40	676.60	69.30	685.16	92.10	662.36
8/18/2021	735.90		73.90	738.10	60.20	751.83	135.10	676.90	69.30	685.16	92.10	662.36
8/25/2021	735.70	0.00	73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	92.10	662.36
9/1/2021	735.60		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	90.90	663.56
9/8/2021	736.00		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	90.90	663.56
9/15/2021	737.00		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	90.90	663.56
9/22/2021	737.50		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	90.90	663.56
9/29/2021	738.00	0.00	73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	90.90	663.56
10/6/2021	738.20		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	90.90	663.56
10/13/2021	738.70		73.90	738.10	60.20	751.83	135.90	676.10	69.30	685.16	91.10	663.36
10/22/2021	738.80		73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	91.10	663.36
10/27/2021	739.00	0.46	73.90	738.10	60.20	751.83	135.80	676.20	69.30	685.16	91.10	663.36
11/3/2021	739.60		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	90.90	663.56
11/10/2021	740.20		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	90.90	663.56
11/17/2021	740.20		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	90.90	663.56
11/24/2021	739.90	0.00	73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	90.90	663.56
12/1/2021	739.50		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	90.90	663.56
12/8/2021	739.40		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	91.10	663.36
12/15/2021	740.00		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	91.10	663.36
12/22/2021	740.00		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	91.10	663.36
12/29/2021	743.00	7.24	73.90	738.10	60.50	751.53	135.80	676.20	69.30	685.16	91.10	663.36
1/6/2022	744.20		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
1/12/2022	744.20		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
1/19/2022	744.10		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
1/26/2022	744.00	0.05	73.40	738.60	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
2/2/2022	743.80		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
2/9/2022	743.70		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	90.90	663.56
2/16/2022	743.60		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
2/28/2022	743.40	0.04	73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
3/2/2022	743.30		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
3/9/2022	743.10		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
3/16/2022	743.00		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
3/23/2022	742.80		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
3/30/2022	742.10	1.28	73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
4/6/2022	741.90		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
4/13/2022	741.60		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
4/20/2022	741.10		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
4/27/2022	740.20	0.25	73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
5/4/2022	739.30		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
5/11/2022	738.10		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
5/18/2022	737.90		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
5/25/2022	737.00	0.00	73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
6/1/2022	737.00		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	91.10	663.36
6/8/2022	738.00		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	91.10	663.36
6/15/2022	738.60		73.90	738.10	60.30	751.73	135.80	676.20	69.30	685.16	91.10	663.36
6/22/2022	741.70		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
6/29/2022	742.80	0.00	73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
7/6/2022	744.60		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
7/13/2022	745.50		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
7/20/2022	745.50		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
7/27/2022	744.50	0.03	73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
8/3/2022	743.00		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
8/10/2022	742.10		73.90	738.10	60.30	751.73	136.30	675.70	69.30	685.16	91.10	663.36
8/17/2022	744.60		73.90	738.10	60.30	751.73	136.30	675.70	69.30	685.16	91.10	663.36
8/24/2022	746.60		73.90	738.10	60.30	751.73	136.30	675.70	69.30	685.16	91.10	663.36
8/31/2022	748.70	0.03	73.90	738.10	60.30	751.73	136.30	675.70	69.30	685.16	91.10	663.36
9/7/2022	749.60		73.90	738.10	60.30	751.73	136.30	675.70	69.30	685.16	91.10	663.36
9/14/2022	749.00		73.90	738.10	60.30	751.73	136.30	675.70	69.30	685.16	91.10	663.36
9/21/2022	747.60		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
9/28/2022	746.00	0.29	73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
10/5/2022	744.90		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
10/12/2022	743.90		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
10/19/2022	743.70		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
10/26/2022	743.50	0.44	73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
11/2/2022	743.40		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
11/9/2022	744.40		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
11/16/2022	744.30		73.90	738.10	60.90	751.13	135.90	676.10	69.30	685.16	91.10	663.36
11/23/2022	744.00		73.90	738.10	60.90	751.13	135.90	676.10	69.30	685.16	91.10	663.36
11/30/2022	743.70	1.24	73.90	738.10	60.90	751.13	135.90	676.10	69.30	685.16	91.10	663.36
12/1/2022	739.50		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
12/8/2022	739.40		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
12/15/2022	740.00		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
12/22/2022	740.00		73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
12/29/2022	742.00	2.62	73.90	738.10	60.30	751.73	135.90	676.10	69.30	685.16	91.10	663.36
1/4/2023	745.60		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
1/11/2023	748.90		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
1/18/2023	758.90		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
1/25/2023	760.90	6.31	73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
2/1/2023	761.50		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
2/8/2023	761.80		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
2/15/2023	762.00		73.90	738.10	61.00	751.03	136.00	676.00	69.30	685.16	91.10	663.36
2/22/2023	762.20	2.95	73.90	738.10	61.00	751.03	136.00	676.00	69.30	685.16	91.10	663.36
3/1/2023	763.60		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	89.40	665.06
3/8/2023	764.10		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	89.40	665.06
3/15/2023	764.30		73.90	738.10	61.00	751.03	135.90	676.10	67.90	686.56	89.40	665.06
3/22/2023	772.80		73.90	738.10	61.00	751.03	135.90	676.10	67.90	686.56	89.40	665.06
3/29/2023	775.60	6.45	73.90	738.10	61.00	751.03	135.90	676.10	67.90	686.56	89.40	665.06
4/5/2023	777.40		73.90	738.10	61.00	751.03	135.80	676.20	69.30	685.16	91.00	663.46
4/12/2023	778.90		73.90	738.10	61.00	751.03	135.80	676.20	69.30	685.16	91.10	663.36
4/19/2023	779.50		73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
4/26/2023	779.80	0.10	73.90	738.10	61.00	751.03	135.90	676.10	69.30	685.16	91.10	663.36
5/3/2023	779.80		73.80	738.20	61.00	751.03	135.60	676.40	69.30	685.16	91.10	663.36
5/10/2023	779.90		73.80	738.20	61.00	751.03	135.30	676.70	69.30	685.16	91.10	663.36
5/17/2023	779.70		73.80	738.20	61.00	751.03	135.40	676.60	69.30	685.16	91.10	663.36
5/24/2023	779.60	0.79	73.80	738.20	61.00	751.03	135.30	676.70	69.30	685.16	91.10	663.36
5/31/2023	779.20		73.80	738.20	61.00	751.03	135.30	676.70	69.30	685.16	91.10	663.36
6/7/2023	779.20		73.80	738.20	61.00	751.03	135.30	676.70	69.30	685.16	91.10	663.36
6/14/2023	778.90		73.80	738.20	61.00	751.03	135.30	676.70	69.30	685.16	91.10	663.36
6/21/2023	778.50		73.80	738.20	61.00	751.03	135.30	676.70	69.30	685.16	91.10	663.36
6/28/2023	777.90	0.09	73.80	738.20	61.00	751.03	135.30	676.70	69.30	685.16	91.10	663.36
7/5/2023	777.40		73.80	738.20	61.00	751.03	136.00	676.00	69.30	685.16	91.10	663.36
7/12/2023	776.70		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	90.50	663.96
7/19/2023	776.00		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	90.50	663.96
7/26/2023	775.00	0.00	74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	90.50	663.96
8/3/2023	774.40		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	91.10	663.36
8/9/2023	774.00		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	91.10	663.36
8/16/2023	773.50		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	91.10	663.36
8/23/2023	773.50		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	91.10	663.36
8/31/2023	773.30	2.00	74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	91.10	663.36
9/6/2023	773.20		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	91.10	663.36
9/13/2023	772.60		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	91.10	663.36
9/20/2023	772.10		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	91.10	663.36
9/27/2023	771.40	0.04	74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	91.10	663.36
10/5/2023	770.40		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	90.90	663.56
10/12/2023	769.50		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	90.90	663.56
10/18/2023	768.30		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	90.90	663.56
10/25/2023	765.20	0.18	74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	90.90	663.56

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
11/2/2023	762.70		74.10	737.90	61.00	751.03	136.00	676.00	68.00	686.46	90.90	663.56
11/8/2023	762.50		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
11/16/2023	762.40		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
11/21/2023	762.10		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
11/28/2023	761.60	0.52	74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
12/7/2023	761.00		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
12/12/2023	760.70		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
12/19/2023	760.20	1.09	74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
1/5/2024	759.50		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
1/11/2024	759.30		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
1/17/2024	758.90		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
1/25/2024	758.50	1.40	74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
2/1/2024	758.10		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
2/7/2024	761.00		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
2/14/2024	761.80		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
2/22/2024	762.60		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
2/28/2024	761.80	8.20	74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
3/6/2024	762.50		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
3/15/2024	762.60		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
3/20/2024	762.40		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
3/26/2024	764.00	3.28	74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.90	663.56
4/3/2024	766.50		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
4/11/2024	768.10		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
4/17/2024	769.00		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
4/24/2024	769.60		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
5/1/2024	770.10		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
5/8/2024	770.30		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
5/15/2024	770.60		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
5/22/2024	770.50		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
5/29/2024	770.30	0.28	74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
6/5/2024	770.30		74.10	737.90	61.70	750.33	136.00	676.00	68.00	686.46	90.70	663.76
6/12/2024	770.20		74.10	737.90	61.70	750.33	136.00	676.00	68.00	686.46	90.70	663.76
6/19/2024	770.10		74.10	737.90	61.70	750.33	136.00	676.00	68.00	686.46	90.70	663.76
6/26/2024	769.80	0.00	74.10	737.90	61.70	750.33	136.00	676.00	68.00	686.46	90.70	663.76
7/3/2024	769.00		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
7/11/2024	768.20		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
7/16/2024	767.50		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
7/24/2024	766.60		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
7/31/2024	765.70	0.00	74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
8/7/2024	764.80		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
8/15/2024	763.60		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
8/21/2024	762.70		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76

- Notes:
1. Readings in red are classified as erroneous.
 2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-3 Upper		R-3 Middle		R-3 Lower		R-4 Upper		R-4 Lower	
Top Ref. Elev. (ft)			812.200		812.200		812.200		752.100		752.100	
Top Ref. Elev. (ft) After 5/21/2012			812.000		812.025		811.995		754.455		754.455	
Tip Elev. (ft)			737.500		690.025		675.995		667.055		654.555	
Total Depth (ft)			74.5		122.0		136.0		85.0		96.5	
Total Depth (ft) After 5/21/2012			74.5		122.0		136.0		87.4		99.9	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-3U		R-3M		R-3L		R-4U		R-4L	
8/29/2024	761.40	0.00	74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
9/4/2024	760.60		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
9/18/2024	759.50		74.10	737.90	61.10	750.93	136.00	676.00	68.00	686.46	90.70	663.76
9/25/2024	759.20	0.00	74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.70	663.76
10/2/2024	758.90		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.50	663.96
10/10/2024	758.60		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.40	664.06
10/16/2024	758.40		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.40	664.06
10/25/2024	758.20		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.40	664.06
10/30/2024	758.10	0.00	74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.40	664.06
11/5/2024	757.90		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.50	663.96
11/13/2024	757.70		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.50	663.96
11/20/2024	757.60		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.50	663.96
11/27/2024	757.50	0.05	73.84	738.16	60.70	751.33	135.60	676.40	67.27	687.19	89.70	664.76
12/2/2024	757.40		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.50	663.96
12/11/2024	757.20		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.50	663.96
12/18/2024	757.10		74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.50	663.96
12/26/2024	757.10	0.00	74.10	737.90	61.20	750.83	136.00	676.00	68.00	686.46	90.50	663.96
1/23/2025	756.60	1.08	73.80	738.20	60.30	751.73	135.60	676.40	67.40	687.06	89.80	664.66
2/25/2025	757.80	3.39	73.80	738.20	60.80	751.23	135.60	676.40	67.20	687.26	89.70	664.76
3/26/2025	759.00	2.40	73.80	738.20	60.80	751.23	135.70	676.30	67.30	687.16	89.70	664.76
4/14/2025	759.00		73.70	738.30	60.80	751.23	135.60	676.40	67.10	687.36	89.70	664.76
4/24/2025	759.00	0.38	73.80	738.20	60.90	751.13	135.70	676.30	67.30	687.16	89.70	664.76
5/22/2025	758.90	0.12	73.90	738.10	60.90	751.13	135.80	676.20	67.40	687.06	89.90	664.56
6/18/2025	758.00	0.07	73.90	738.10	60.90	751.13	136.00	676.00	67.40	687.06	89.80	664.66
7/23/2025	755.30	0.00	73.90	738.10	60.90	751.13	135.75	676.25	67.35	687.11	88.90	665.56
8/21/2025	752.60	0.00	73.90	738.10	60.90	751.13	135.80	676.20	67.40	687.06	89.80	664.66
9/23/2025	748.80	0.09	73.90	738.10	60.90	751.13	135.80	676.20	67.30	687.16	89.80	664.66
10/23/2025	746.90	1.26	73.90	738.10	60.30	751.73	135.80	676.20	67.40	687.06	89.90	664.56
11/19/2025	746.90	5.18	73.80	738.20	60.80	751.23	135.50	676.50	67.30	687.16	89.80	664.66
12/16/2025	746.80	1.87	73.90	738.10	61.00	751.03	135.80	676.20	67.40	687.06	89.80	664.66

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number		R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower		
Top Ref. Elev. (ft)		752.400		752.400		812.200		812.200		750.700		750.800		
Top Ref. Elev. (ft) After 5/21/2012		751.930		751.920		811.520		811.510		754.355		754.370		
Tip Elev. (ft)		676.930		654.420		700.020		674.510		677.200		664.700		
Total Depth (ft)		75.0		97.5		111.5		137.0		73.5		86.1		
Total Depth (ft) After 5/21/2012		75.0		97.5		111.5		137.0		77.2		89.7		
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
1/10/2007	749.70		74.50	677.90	82.30	670.10	96.00	716.20	133.20	679.00	72.20	678.50	85.70	665.10
1/19/2007	749.40		74.50	677.90	82.40	670.00	96.00	716.20	132.20	680.00	72.20	678.50	85.70	665.10
1/29/2007	749.60		74.50	677.90	82.50	669.90	96.00	716.20	132.30	679.90	72.20	678.50	85.70	665.10
2/7/2007	750.00		74.50	677.90	82.40	670.00	96.00	716.20	133.20	679.00	72.20	678.50	85.70	665.10
2/16/2007	750.20		74.50	677.90	82.40	670.00	96.00	716.20	133.20	679.00	72.20	678.50	85.70	665.10
2/26/2007	750.60		74.50	677.90	82.30	670.10	96.00	716.20	133.10	679.10	72.20	678.50	85.70	665.10
3/6/2007	751.70		74.50	677.90	82.30	670.10	96.00	716.20	132.90	679.30	72.20	678.50	85.70	665.10
3/17/2007	755.10		74.50	677.90	82.30	670.10	96.00	716.20	132.00	680.20	72.20	678.50	85.70	665.10
3/25/2007	756.30		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
4/6/2007	760.00		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
4/16/2007	762.90		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
4/27/2007	767.10		74.50	677.90	82.10	670.30	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
5/9/2007	766.80		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
5/19/2007	764.80		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
5/29/2007	762.80		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
6/8/2007	761.20		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
6/18/2007	759.90		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
6/28/2007	758.10		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
7/10/2007	756.70		74.50	677.90	82.20	670.20	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
7/19/2007	755.80		74.50	677.90	82.30	670.10	96.00	716.20	133.00	679.20	72.20	678.50	85.70	665.10
7/30/2007	754.90		74.50	677.90	82.30	670.10	96.00	716.20	132.90	679.30	72.20	678.50	85.70	665.10
8/11/2007	754.40		74.50	677.90	82.30	670.10	96.00	716.20	132.90	679.30	72.20	678.50	85.70	665.10
8/22/2007	753.80		74.50	677.90	82.30	670.10	96.00	716.20	132.90	679.30	72.20	678.50	85.70	665.10
8/30/2007	753.30		74.50	677.90	82.30	670.10	96.00	716.20	132.90	679.30	72.20	678.50	85.70	665.10
9/7/2007	753.20		74.50	677.90	82.30	670.10	96.00	716.20	132.90	679.30	72.20	678.50	85.70	665.10
9/18/2007	753.00		74.50	677.90	82.30	670.10	96.00	716.20	132.90	679.30	72.20	678.50	85.70	665.10
9/27/2007	753.60		74.50	677.90	82.30	670.10	96.00	716.20	132.90	679.30	72.20	678.50	85.70	665.10
10/8/2007	754.90		74.50	677.90	82.30	670.10	96.20	716.00	132.90	679.30	72.20	678.50	85.70	665.10
10/17/2007	756.20		74.50	677.90	82.30	670.10	96.40	715.80	132.90	679.30	72.20	678.50	85.70	665.10
10/30/2007	757.80		74.50	677.90	82.30	670.10	96.20	716.00	132.90	679.30	72.20	678.50	85.70	665.10
11/9/2007	759.60		74.50	677.90	82.30	670.10	96.60	715.60	133.10	679.10	72.20	678.50	85.70	665.10
11/19/2007	763.60		74.50	677.90	82.30	670.10	96.90	715.30	133.20	679.00	72.20	678.50	85.70	665.10
11/28/2007	766.50		74.50	677.90	82.30	670.10	97.10	715.10	133.60	678.60	72.20	678.50	85.70	665.10
12/8/2007	768.70		74.50	677.90	82.30	670.10	97.00	715.20	133.70	678.50	72.20	678.50	85.70	665.10
12/18/2007	768.50		74.50	677.90	82.30	670.10	96.90	715.30	133.80	678.40	72.20	678.50	85.70	665.10
12/28/2007	769.30		74.50	677.90	82.30	670.10	96.80	715.40	133.80	678.40	72.20	678.50	85.70	665.10
1/9/2008	770.50		74.50	677.90	82.30	670.10	97.40	714.80	133.50	678.70	72.20	678.50	85.70	665.10
1/19/2008	770.30		74.50	677.90	82.30	670.10	97.70	714.50	133.40	678.80	72.20	678.50	85.70	665.10
1/29/2008	772.70		74.50	677.90	82.30	670.10	98.00	714.20	133.10	679.10	72.20	678.50	85.70	665.10
2/9/2008	774.10		74.50	677.90	82.30	670.10	98.30	713.90	133.20	679.00	72.20	678.50	85.70	665.10
2/19/2008	774.40		74.50	677.90	82.30	670.10	97.90	714.30	132.90	679.30	72.20	678.50	85.70	665.10
2/27/2008	775.00		74.50	677.90	82.30	670.10	97.90	714.30	133.00	679.20	72.20	678.50	85.70	665.10

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number		R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower		
Top Ref. Elev. (ft)		752.400		752.400		812.200		812.200		750.700		750.800		
Top Ref. Elev. (ft) After 5/21/2012		751.930		751.920		811.520		811.510		754.355		754.370		
Tip Elev. (ft)		676.930		654.420		700.020		674.510		677.200		664.700		
Total Depth (ft)		75.0		97.5		111.5		137.0		73.5		86.1		
Total Depth (ft) After 5/21/2012		75.0		97.5		111.5		137.0		77.2		89.7		
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
3/7/2008	775.00		74.50	677.90	82.20	670.20	97.80	714.40	133.20	679.00	72.20	678.50	85.70	665.10
3/18/2008	775.00		74.50	677.90	82.20	670.20	97.70	714.50	133.30	678.90	72.20	678.50	85.70	665.10
3/29/2008	774.90		74.50	677.90	82.20	670.20	97.50	714.70	133.40	678.80	72.20	678.50	85.70	665.10
4/10/2008	775.00		74.50	677.90	82.20	670.20	97.50	714.70	133.10	679.10	72.20	678.50	85.70	665.10
4/20/2008	774.80		74.50	677.90	82.20	670.20	97.40	714.80	132.90	679.30	72.20	678.50	85.70	665.10
5/5/2008	774.65		74.50	677.90	82.10	670.30	97.70	714.50	133.10	679.10	72.20	678.50	85.70	665.10
5/13/2008	773.90		74.50	677.90	82.10	670.30	97.70	714.50	133.20	679.00	72.20	678.50	85.70	665.10
5/21/2008	772.85		74.50	677.90	82.00	670.40	97.60	714.60	133.20	679.00	72.20	678.50	85.70	665.10
5/31/2008	772.10		74.50	677.90	82.00	670.40	97.60	714.60	133.30	678.90	72.20	678.50	85.70	665.10
6/9/2008	771.20		74.50	677.90	82.00	670.40	97.70	714.50	133.30	678.90	72.20	678.50	85.70	665.10
6/18/2008	770.50		74.50	677.90	82.00	670.40	97.80	714.40	133.30	678.90	72.20	678.50	85.70	665.10
6/26/2008	769.60		74.50	677.90	82.10	670.30	98.00	714.20	133.30	678.90	72.20	678.50	85.70	665.10
7/8/2008	768.10		74.50	677.90	82.00	670.40	98.50	713.70	133.60	678.60	72.20	678.50	85.70	665.10
7/19/2008	766.60		74.50	677.90	82.20	670.20	98.80	713.40	133.70	678.50	72.20	678.50	85.70	665.10
7/29/2008	765.50	0.00	74.50	677.90	82.20	670.20	98.90	713.30	133.60	678.60	72.20	678.50	85.70	665.10
8/4/2008	764.60	0.00	74.50	677.90	82.00	670.40	98.90	713.30	133.60	678.60	72.20	678.50	85.70	665.10
8/9/2008	764.25	0.00	74.50	677.90	82.00	670.40	98.90	713.30	133.50	678.70	72.20	678.50	85.70	665.10
8/19/2008	763.20	0.00	74.50	677.90	82.00	670.40	98.80	713.40	133.40	678.80	72.20	678.50	85.70	665.10
8/28/2008	762.25	0.00	74.50	677.90	82.00	670.40	98.70	713.50	133.20	679.00	72.20	678.50	85.70	665.10
9/6/2008	761.00	0.00	74.40	678.00	82.20	670.20	98.90	713.30	133.20	679.00	72.20	678.50	85.70	665.10
9/17/2008	760.10	0.00	74.00	678.40	82.20	670.20	99.20	713.00	133.30	678.90	72.20	678.50	85.70	665.10
9/29/2008	759.20	0.00	73.70	678.70	82.30	670.10	99.50	712.70	133.30	678.90	72.20	678.50	85.70	665.10
10/8/2008	759.00	0.00	73.70	678.70	82.40	670.00	99.80	712.40	133.20	679.00	72.20	678.50	85.70	665.10
10/18/2008	758.90	0.00	73.70	678.70	82.40	670.00	100.20	712.00	133.20	679.00	72.20	678.50	85.70	665.10
10/29/2008	761.30	0.00	73.70	678.70	82.40	670.00	100.60	711.60	133.20	679.00	72.20	678.50	85.70	665.10
11/8/2008	764.30	0.00	73.70	678.70	82.40	670.00	100.30	711.90	133.50	678.70	72.20	678.50	85.70	665.10
11/17/2008	766.90	0.00	73.70	678.70	82.40	670.00	99.00	713.20	133.50	678.70	72.20	678.50	85.70	665.10
11/25/2008	769.90	1.71	73.70	678.70	82.40	670.00	98.40	713.80	133.40	678.80	72.20	678.50	85.70	665.10
12/4/2008	773.90		73.70	678.70	82.00	670.40	98.60	713.60	133.10	679.10	72.20	678.50	85.70	665.10
12/13/2008	777.30		73.70	678.70	81.70	670.70	98.60	713.60	133.10	679.10	72.20	678.50	85.70	665.10
12/21/2008	779.10		73.70	678.70	81.10	671.30	98.60	713.60	133.10	679.10	72.20	678.50	85.70	665.10
12/30/2008	779.40	3.99	73.50	678.90	80.60	671.80	98.60	713.60	133.10	679.10	72.20	678.50	85.70	665.10
1/8/2009	779.30		73.60	678.80	81.00	671.40	98.00	714.20	133.10	679.10	72.20	678.50	85.70	665.10
1/19/2009	778.50		73.80	678.60	81.70	670.70	96.90	715.30	133.10	679.10	72.20	678.50	85.70	665.10
1/29/2009	778.30	0.38	74.00	678.40	82.00	670.40	96.00	716.20	133.10	679.10	72.20	678.50	85.70	665.10
2/12/2009	779.80		73.50	678.90	79.60	672.80	96.00	716.20	132.60	679.60	72.20	678.50	85.70	665.10
2/19/2009	781.30		73.40	679.00	79.60	672.80	96.00	716.20	132.90	679.30	72.20	678.50	85.70	665.10
2/27/2009	782.20	4.33	73.30	679.10	79.60	672.80	96.00	716.20	133.20	679.00	72.20	678.50	85.70	665.10
3/10/2009	782.70		73.40	679.00	80.00	672.40	96.00	716.20	133.30	678.90	72.20	678.50	85.70	665.10
3/20/2009	782.40		73.40	679.00	80.30	672.10	96.00	716.20	133.30	678.90	72.20	678.50	85.70	665.10
3/25/2009	782.20	0.43	73.50	678.90	80.60	671.80	95.90	716.30	133.40	678.80	72.20	678.50	85.70	665.10
4/4/2009	785.30		73.60	678.80	80.70	671.70	95.80	716.40	133.40	678.80	72.20	678.50	85.70	665.10

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
4/13/2009	788.50		73.80	678.60	80.90	671.50	95.60	716.60	133.40	678.80	72.20	678.50	85.70	665.10
4/21/2009	790.50		73.90	678.50	80.90	671.50	95.50	716.70	133.40	678.80	72.20	678.50	85.70	665.10
4/26/2009	791.20	0.00	73.90	678.50	80.90	671.50	95.50	716.70	133.40	678.80	72.20	678.50	85.70	665.10
5/4/2009	791.30		74.00	678.40	80.90	671.50	95.00	717.20	133.40	678.80	72.20	678.50	85.70	665.10
5/13/2009	790.60		74.00	678.40	81.00	671.40	94.60	717.60	133.40	678.80	72.20	678.50	85.70	665.10
5/21/2009	789.90		74.10	678.30	81.00	671.40	94.60	717.60	133.20	679.00	72.20	678.50	85.70	665.10
5/30/2009	789.30	0.00	74.10	678.30	81.10	671.30	94.40	717.80	133.00	679.20	72.20	678.50	85.70	665.10
6/8/2009	788.70		74.10	678.30	81.10	671.30	94.10	718.10	132.90	679.30	72.20	678.50	85.70	665.10
6/17/2009	788.20		73.90	678.50	81.10	671.30	95.90	716.30	132.80	679.40	72.20	678.50	85.70	665.10
6/27/2009	787.60	0.00	73.90	678.50	81.10	671.30	95.80	716.40	132.80	679.40	72.20	678.50	85.70	665.10
7/7/2009	786.80		73.90	678.50	81.20	671.20	93.80	718.40	133.00	679.20	72.20	678.50	85.70	665.10
7/15/2009	786.10		73.90	678.50	81.30	671.10	93.80	718.40	133.10	679.10	72.20	678.50	85.70	665.10
7/22/2009	785.50		73.90	678.50	81.40	671.00	93.70	718.50	133.10	679.10	72.20	678.50	85.70	665.10
7/30/2009	784.70	0.00	73.90	678.50	81.40	671.00	93.70	718.50	133.30	678.90	72.20	678.50	85.70	665.10
8/8/2009	783.90		73.90	678.50	81.40	671.00	93.80	718.40	133.50	678.70	72.20	678.50	85.70	665.10
8/15/2009	783.30		73.90	678.50	81.40	671.00	93.90	718.30	133.60	678.60	72.20	678.50	85.70	665.10
8/26/2009	782.30	0.00	73.90	678.50	81.40	671.00	93.90	718.30	133.90	678.30	72.20	678.50	85.70	665.10
9/5/2009	781.50		73.90	678.50	81.40	671.00	94.10	718.10	133.50	678.70	72.20	678.50	85.70	665.10
9/12/2009	780.80		73.90	678.50	81.40	671.00	94.20	718.00	133.00	679.20	72.20	678.50	85.70	665.10
9/19/2009	780.20		73.90	678.50	81.40	671.00	94.30	717.90	133.00	679.20	72.20	678.50	85.70	665.10
9/28/2009	779.50	0.00	73.90	678.50	81.40	671.00	94.40	717.80	132.60	679.60	72.20	678.50	85.70	665.10
10/8/2009	778.50		73.90	678.50	81.50	670.90	94.50	717.70	132.80	679.40	72.20	678.50	85.70	665.10
10/19/2009	777.80		73.90	678.50	81.60	670.80	94.70	717.50	132.80	679.40	72.20	678.50	85.70	665.10
10/30/2009	776.80	0.24	73.90	678.50	81.60	670.80	94.90	717.30	132.90	679.30	72.20	678.50	85.70	665.10
11/9/2009	776.10		73.90	678.50	81.60	670.80	94.90	717.30	132.70	679.50	72.20	678.50	85.70	665.10
11/20/2009	775.40		73.90	678.50	81.70	670.70	95.00	717.20	132.70	679.50	72.20	678.50	85.70	665.10
11/28/2009	774.90	0.00	73.90	678.50	81.70	670.70	95.00	717.20	132.70	679.50	72.20	678.50	85.70	665.10
12/9/2009	774.60		73.80	678.60	81.70	670.70	95.40	716.80	133.00	679.20	72.20	678.50	85.70	665.10
12/18/2009	774.60		73.80	678.60	81.60	670.80	95.70	716.50	133.10	679.10	72.20	678.50	85.70	665.10
12/29/2009	774.30	3.56	73.70	678.70	81.60	670.80	95.90	716.30	133.20	679.00	72.20	678.50	85.70	665.10
1/9/2010	773.90		73.90	678.50	81.60	670.80	95.90	716.30	133.30	678.90	72.20	678.50	85.70	665.10
1/17/2010	773.60		73.80	678.60	81.60	670.80	95.90	716.30	133.30	678.90	72.20	678.50	85.70	665.10
1/28/2010	779.90	7.84	74.10	678.30	81.90	670.50	95.90	716.30	133.40	678.80	72.20	678.50	85.70	665.10
2/4/2010	780.15		74.10	678.30	82.00	670.40	95.90	716.30	132.40	679.80	72.20	678.50	85.70	665.10
2/12/2010	783.40		74.10	678.30	82.00	670.40	95.90	716.30	132.40	679.80	72.20	678.50	85.70	665.10
2/19/2010	784.00		74.10	678.30	82.00	670.40	95.90	716.30	132.40	679.80	72.20	678.50	85.70	665.10
2/26/2010	784.45	2.69	74.10	678.30	82.00	670.40	95.90	716.30	132.40	679.80	72.20	678.50	85.70	665.10
3/6/2010	785.60		74.10	678.30	81.80	670.60	95.70	716.50	132.90	679.30	72.10	678.60	85.70	665.10
3/15/2010	786.20		74.10	678.30	81.60	670.80	95.40	716.80	132.90	679.30	72.10	678.60	85.70	665.10
3/16/2010	786.30		74.10	678.30	81.60	670.80	95.40	716.80	132.90	679.30	72.10	678.60	85.70	665.10
3/24/2010	786.20	2.03	73.90	678.50	81.00	671.40	95.00	717.20	133.00	679.20	72.10	678.60	85.70	665.10
4/2/2010	785.80		73.50	678.90	81.20	671.20	94.70	717.50	133.20	679.00	72.10	678.60	85.70	665.10

- Notes:
1. Readings in red are classified as erroneous.
 2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400	752.400	812.200	812.200	811.510	811.510	750.700	750.700	754.355	754.355	750.800	750.800
Top Ref. Elev. (ft) After 5/21/2012			751.930	751.930	811.920	811.920	811.510	811.510	750.700	750.700	754.355	754.355	750.800	750.800
Tip Elev. (ft)			676.930	654.420	700.020	674.510	677.200	664.700	676.930	654.420	700.020	674.510	677.200	664.700
Total Depth (ft)			75.0	97.5	111.5	137.0	73.5	86.1	75.0	97.5	111.5	137.0	73.5	86.1
Total Depth (ft) After 5/21/2012			75.0	97.5	111.5	137.0	77.2	89.7	75.0	97.5	111.5	137.0	77.2	89.7
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
4/4/2010	785.80		73.50	678.90	81.20	671.20	94.60	717.60	133.20	679.00	72.10	678.60	85.70	665.10
4/12/2010	787.40		73.40	679.00	81.30	671.10	94.40	717.80	133.20	679.00	72.10	678.60	85.70	665.10
4/20/2010	790.10		73.40	679.00	81.40	671.00	93.80	718.40	133.20	679.00	72.10	678.60	85.70	665.10
4/28/2010	792.60	1.19	73.50	678.90	81.40	671.00	93.40	718.80	133.20	679.00	72.10	678.60	85.70	665.10
5/6/2010	792.90		73.50	678.90	81.40	671.00	93.00	719.20	133.20	679.00	72.10	678.60	85.70	665.10
5/14/2010	792.40		73.50	678.90	81.50	670.90	92.40	719.80	133.00	679.20	72.10	678.60	85.70	665.10
5/21/2010	792.10		73.60	678.80	81.50	670.90	91.20	721.00	132.80	679.40	72.10	678.60	85.70	665.10
5/29/2010	791.70	0.00	73.60	678.80	81.60	670.80	91.10	721.10	132.20	680.00	72.10	678.60	85.70	665.10
6/8/2010	791.00		73.60	678.80	81.50	670.90	90.80	721.40	131.80	680.40	72.10	678.60	85.70	665.10
6/15/2010	790.60		73.60	678.80	81.50	670.90	90.50	721.70	131.70	680.50	72.10	678.60	85.70	665.10
6/22/2010	790.10		73.60	678.80	81.60	670.80	90.20	722.00	131.70	680.50	72.10	678.60	85.70	665.10
6/29/2010	789.70	0.00	73.60	678.80	81.60	670.80	89.60	722.60	131.70	680.50	72.10	678.60	85.70	665.10
7/8/2010	789.20		73.40	679.00	81.50	670.90	89.50	722.70	131.60	680.60	72.10	678.60	85.70	665.10
7/16/2010	788.70		73.80	678.60	81.60	670.80	89.50	722.70	131.60	680.60	72.10	678.60	85.70	665.10
7/23/2010	788.30		73.90	678.50	81.60	670.80	89.40	722.80	131.50	680.70	72.10	678.60	85.70	665.10
7/31/2010	787.70	0.00	74.00	678.40	81.60	670.80	89.40	722.80	131.50	680.70	72.10	678.60	85.70	665.10
8/7/2010	787.30		73.90	678.50	81.60	670.80	89.40	722.80	131.50	680.70	72.10	678.60	85.70	665.10
8/15/2010	786.70		74.00	678.40	81.60	670.80	89.50	722.70	131.40	680.80	72.10	678.60	85.70	665.10
8/23/2010	786.10		73.90	678.50	81.60	670.80	89.50	722.70	131.40	680.80	72.10	678.60	85.70	665.10
8/29/2010	785.60	0.00	73.90	678.50	81.60	670.80	89.50	722.70	131.40	680.80	72.10	678.60	85.70	665.10
9/8/2010	784.90		73.90	678.50	81.60	670.80	89.50	722.70	131.40	680.80	72.10	678.60	85.70	665.10
9/17/2010	784.20		73.90	678.50	81.60	670.80	89.50	722.70	131.40	680.80	72.10	678.60	85.70	665.10
9/27/2010	783.50	0.00	73.90	678.50	81.60	670.80	89.50	722.70	131.40	680.80	72.10	678.60	85.70	665.10
10/8/2010	782.80		73.90	678.50	81.60	670.80	89.80	722.40	131.50	680.70	72.10	678.60	85.70	665.10
10/18/2010	782.20		73.90	678.50	81.60	670.80	90.30	721.90	131.50	680.70	72.10	678.60	85.70	665.10
10/28/2010	782.00	1.76	73.90	678.50	81.60	670.80	90.60	721.60	131.70	680.50	72.10	678.60	85.70	665.10
11/4/2010	781.70		73.90	678.50	81.60	670.80	91.80	720.40	131.30	680.90	72.10	678.60	85.70	665.10
11/15/2010	781.10		73.90	678.50	81.60	670.80	91.50	720.70	131.10	681.10	72.10	678.60	85.70	665.10
11/26/2010	780.80	1.33	73.90	678.50	81.60	670.80	91.20	721.00	130.90	681.30	72.10	678.60	85.70	665.10
12/8/2010	780.50		73.90	678.50	81.60	670.80	91.20	721.00	130.70	681.50				
12/16/2010	780.40		73.90	678.50	81.60	670.80	91.00	721.20	130.70	681.50				
12/30/2010	792.60	11.72	73.60	678.80			90.40	721.80	132.20	680.00				
1/6/2011	792.20		73.60	678.80	81.60	670.80	90.40	721.80	131.50	680.70				
1/7/2011	792.20		73.60	678.80	81.60	670.80	90.40	721.80	131.60	680.60				
1/17/2011	792.00		74.00	678.40	31.10	721.30	88.10	724.10	129.60	682.60	72.10	678.60	85.70	665.10
1/27/2011	791.80	1.11	73.90	678.50	32.00	720.40	87.10	725.10	131.40	680.80	72.10	678.60	85.70	665.10
2/5/2011	791.80		73.90	678.50	33.50	718.90	86.90	725.30	131.00	681.20	72.10	678.60	85.70	665.10
2/15/2011	791.80		73.90	678.50	34.40	718.00	86.60	725.60	130.80	681.40	72.10	678.60	85.70	665.10
2/23/2011	792.20	2.87	73.90	678.50	34.80	717.60	86.40	725.80	130.60	681.60	72.10	678.60	85.70	665.10
3/8/2011	792.10		73.60	678.80	34.70	717.70	86.00	726.20	130.90	681.30	72.10	678.60	85.70	665.10
3/19/2011	791.80		72.80	679.60	34.70	717.70	85.80	726.40	131.20	681.00	72.10	678.60	85.70	665.10
3/30/2011	791.50	3.23	72.30	680.10	34.70	717.70	85.50	726.70	131.40	680.80	72.10	678.60	85.70	665.10

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U		R-5L		R-6U		R-6L		R-7U		R-7L	
4/7/2011	792.10		72.20	680.20	34.70	717.70	85.40	726.80	131.00	681.20	72.10	678.60	85.70	665.10
4/16/2011	792.50		72.20	680.20	34.70	717.70	85.30	726.90	130.90	681.30	72.10	678.60	85.70	665.10
4/23/2011	792.60		72.00	680.40	34.80	717.60	85.20	727.00	130.60	681.60	72.10	678.60	85.70	665.10
4/30/2011	792.60	0.00	72.00	680.40	34.70	717.70	85.10	727.10	130.20	682.00	72.10	678.60	85.70	665.10
5/9/2011	792.40		72.30	680.10	35.10	717.30	84.80	727.40	130.60	681.60	72.10	678.60	85.70	665.10
5/16/2011	792.40		72.50	679.90	37.10	715.30	84.90	727.30	130.90	681.30	72.10	678.60	85.70	665.10
5/24/2011	792.40		73.00	679.40	36.10	716.30	84.90	727.30	131.00	681.20	72.10	678.60	85.70	665.10
5/31/2011	792.40	0.81	73.60	678.80	37.00	715.40	85.00	727.20	131.00	681.20	72.10	678.60	85.70	665.10
6/8/2011	792.10		73.90	678.50	37.00	715.40	85.00	727.20	131.00	681.20	72.10	678.60	85.70	665.10
6/16/2011	791.90		73.90	678.50	37.10	715.30	85.00	727.20	131.00	681.20	72.10	678.60	85.70	665.10
6/23/2011	791.80		72.10	680.30	37.10	715.30	85.00	727.20	130.40	681.80	72.10	678.60	85.70	665.10
6/30/2011	791.60	0.00	72.50	679.90	37.80	714.60	85.00	727.20	130.50	681.70	72.10	678.60	85.70	665.10
7/8/2011	791.40		73.30	679.10	37.80	714.60	85.00	727.20	130.50	681.70	72.10	678.60	85.50	665.30
7/14/2011	791.20		n/a		36.00	716.40	85.00	727.20	130.50	681.70	72.10	678.60	85.70	665.10
7/21/2011	790.90		73.50	678.90	34.90	717.50	85.00	727.20	130.50	681.70	72.10	678.60	85.80	665.00
7/30/2011	790.40	0.00	73.70	678.70	35.00	717.40	85.00	727.20	130.50	681.70	72.10	678.60	85.60	665.20
8/9/2011	789.90		73.70	678.70	35.00	717.40	86.10	726.10	130.40	681.80	72.10	678.60	85.70	665.10
8/15/2011	789.70		73.70	678.70	35.00	717.40	85.30	726.90	130.30	681.90	72.10	678.60	85.70	665.10
8/24/2011	789.00		73.70	678.70	35.00	717.40	87.70	724.50	130.20	682.00	72.10	678.60	85.80	665.00
9/1/2011	788.65	0.00	73.70	678.70	35.00	717.40	86.00	726.20	130.10	682.10	72.10	678.60	85.90	664.90
9/9/2011	787.90		73.70	678.70	35.00	717.40	87.20	725.00	130.30	681.90	72.10	678.60	85.90	664.90
9/16/2011	787.30		73.70	678.70	35.00	717.40	85.30	726.90	130.50	681.70	72.10	678.60	86.00	664.80
9/23/2011	787.00		73.70	678.70	35.00	717.40	85.00	727.20	130.70	681.50	72.10	678.60	86.00	664.80
9/29/2011	786.80	0.08	73.70	678.70	35.00	717.40	87.00	725.20	130.90	681.30	72.10	678.60	86.10	664.70
10/8/2011	786.60		73.60	678.80	36.00	716.40	87.60	724.60	130.70	681.50	72.10	678.60	86.10	664.70
10/15/2011	786.40		73.40	679.00	37.80	714.60	87.80	724.40	130.40	681.80	72.10	678.60	86.00	664.80
10/26/2011	786.00	1.29	73.30	679.10	38.60	713.80	88.20	724.00	130.30	681.90	72.10	678.60	86.10	664.70
11/5/2011	785.50		73.20	679.20	38.60	713.80	88.30	723.90	130.30	681.90	72.10	678.60	86.00	664.80
11/14/2011	785.40		73.10	679.30	38.60	713.80	88.30	723.90	130.30	681.90	72.10	678.60	86.10	664.70
11/22/2011	785.10		73.30	679.10	38.60	713.80	88.30	723.90	130.30	681.90	72.10	678.60	86.00	664.80
11/30/2011	785.10	1.79	73.30	679.10	38.60	713.80	88.30	723.90	130.30	681.90	72.10	678.60	85.90	664.90
12/9/2011	784.80		73.30	679.10	38.40	714.00	88.30	723.90	130.30	681.90	72.10	678.60	85.90	664.90
12/17/2011	784.60		73.30	679.10	38.00	714.40	88.50	723.70	130.60	681.60	72.10	678.60	85.90	664.90
12/22/2011	784.50		73.30	679.10	37.60	714.80	88.60	723.60	130.00	682.20	72.10	678.60	85.80	665.00
12/30/2011	784.30	0.45	73.30	679.10	37.40	715.00	89.20	723.00	131.20	681.00	72.10	678.60	85.90	664.90
1/7/2012	784.00		72.80	679.60	37.10	715.30	89.30	722.90	131.20	681.00	72.10	678.60	85.80	665.00
1/14/2012	783.80		72.50	679.90	37.40	715.00	89.40	722.80	131.20	681.00	72.10	678.60	85.80	665.00
1/21/2012	783.60		71.90	680.50	37.10	715.30	89.90	722.30	131.20	681.00	72.10	678.60	85.80	665.00
1/28/2012	783.60	1.72	71.70	680.70	36.70	715.70	89.80	722.40	131.20	681.00	72.10	678.60	85.80	665.00
2/7/2012	783.40		71.60	680.80	36.50	715.90	89.00	723.20	131.20	681.00	72.10	678.60	85.80	665.00
2/15/2012	783.40		71.40	681.00	36.40	716.00	90.00	722.20	131.20	681.00	72.10	678.60	85.80	665.00
2/25/2012	783.40	0.62	71.40	681.00	36.20	716.20	90.10	722.10	131.20	681.00	72.10	678.60	85.80	665.00

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
3/5/2012	783.20		71.40	681.00	36.20	716.20	90.20	722.00	131.20	681.00	72.10	678.60	85.80	665.00
3/15/2012	782.70		71.40	681.00	36.10	716.30	90.40	721.80	131.20	681.00	72.10	678.60	85.80	665.00
3/22/2012	782.60	2.01	71.40	681.00	36.20	716.20	90.80	721.40	131.20	681.00	72.10	678.60	85.80	665.00
4/3/2012	782.50		70.60	681.80	36.40	716.00	90.90	721.30	131.20	681.00	72.10	678.60	85.80	665.00
4/12/2012	782.10		70.60	681.80	36.40	716.00	90.90	721.30	131.20	681.00	72.10	678.60	85.80	665.00
4/21/2012	782.00		70.80	681.60	36.60	715.80	91.10	721.10	131.20	681.00	72.10	678.60	85.80	665.00
4/23/2012	781.90	1.32	70.60	681.80	36.60	715.80	91.10	721.10	131.20	681.00	72.10	678.60	85.80	665.00
5/1/2012	781.70		70.60	681.80	36.60	715.80	90.90	721.30	131.20	681.00	72.10	678.60	85.80	665.00
5/7/2012	781.30		70.60	681.80	36.60	715.80	91.00	721.20	131.20	681.00	72.10	678.60	85.80	665.00
5/21/2012	780.90		70.70	681.70	36.70	715.70	91.10	721.10	131.20	681.00	72.10	678.60	85.80	665.00
5/25/2012	780.00	0.06	71.60	680.33	37.30	714.62	91.30	720.22	131.20	680.31	75.30	679.06	87.20	667.17
6/4/2012	779.60		73.40	678.53	36.70	715.22	91.00	720.52	131.20	680.31	72.10	682.26	87.20	667.17
6/13/2012	778.70		73.40	678.53	37.30	714.62	91.10	720.42	131.20	680.31	72.10	682.26	87.20	667.17
6/20/2012	778.00		73.40	678.53	37.70	714.22	91.90	719.62	131.30	680.21	75.30	679.06	89.20	665.17
6/25/2012	777.30	0.00	73.40	678.53	37.60	714.32	92.10	719.42	131.30	680.21	75.30	679.06	89.10	665.27
7/4/2012	776.30		73.60	678.33	37.80	714.12	92.40	719.12	131.30	680.21	75.20	679.16	88.80	665.57
7/13/2012	775.70		73.70	678.23	37.80	714.12	92.60	718.92	131.20	680.31	75.20	679.16	88.70	665.67
7/20/2012	775.20		73.70	678.23	38.00	713.92	92.90	718.62	131.40	680.11	75.20	679.16	88.70	665.67
7/30/2012	775.00	0.10	73.80	678.13	38.10	713.82	93.10	718.42	131.50	680.01	75.20	679.16	88.80	665.57
8/8/2012	773.00		73.80	678.13	38.10	713.82	93.10	718.42	131.70	679.81	75.20	679.16	88.90	665.47
8/9/2012	772.90		73.80	678.13	38.10	713.82	93.10	718.42	131.70	679.81	75.20	679.16	88.90	665.47
8/18/2012	772.00		73.80	678.13	38.30	713.62	93.10	718.42	131.70	679.81	75.20	679.16	88.90	665.47
8/27/2012	771.10		73.80	678.13	38.50	713.42	93.10	718.42	131.70	679.81	75.30	679.06	89.00	665.37
8/29/2012	770.90	0.00	73.80	678.13	38.50	713.42	93.10	718.42	131.70	679.81	75.30	679.06	89.00	665.37
9/8/2012	769.80		73.80	678.13	38.90	713.02	93.10	718.42	131.00	680.51	75.30	679.06	89.00	665.37
9/15/2012	768.90		73.80	678.13	38.90	713.02	93.10	718.42	130.10	681.41	75.30	679.06	89.00	665.37
9/29/2012	767.80	0.00	73.80	678.13	39.00	712.92	93.10	718.42	132.50	679.01	75.30	679.06	89.00	665.37
10/11/2012	766.80		73.80	678.13	39.30	712.62	95.70	715.82	132.60	678.91	75.30	679.06	89.00	665.37
10/23/2012	765.90	1.10	73.80	678.13	39.30	712.62	95.70	715.82	132.60	678.91	75.30	679.06	89.00	665.37
11/12/2012	764.60		73.70	678.23	39.80	712.12	95.70	715.82	132.50	679.01	75.20	679.16	88.90	665.47
11/23/2012	764.30	0.16	73.70	678.23	39.80	712.12	95.70	715.82	132.20	679.31	75.20	679.16	88.90	665.47
12/12/2012	764.50	2.46	73.70	678.23	39.80	712.12	95.70	715.82	132.60	678.91	75.20	679.16	88.90	665.47
12/27/2012	769.10		73.70	678.23	40.00	711.92	95.80	715.72	132.60	678.91	75.20	679.16	88.90	665.47
1/16/2013	770.40		73.80	678.13	40.30	711.62	95.80	715.72	132.50	679.01	75.10	679.26	88.90	665.47
1/28/2013	769.90	1.82	73.80	678.13	40.40	711.52	95.80	715.72	132.50	679.01	75.10	679.26	88.90	665.47
2/15/2013	769.60		73.80	678.13	40.60	711.32	95.60	715.92	132.50	679.01	75.10	679.26	88.90	665.47
2/26/2013	769.40	0.68	73.80	678.13	40.70	711.22	95.60	715.92	135.10	676.41	75.40	678.96	88.90	665.47
3/13/2013	768.80		73.80	678.13	40.90	711.02	95.80	715.72	132.40	679.11	75.10	679.26	89.00	665.37
3/26/2013	768.60	0.66	73.80	678.13	41.30	710.62	95.80	715.72	132.40	679.11	75.10	679.26	88.70	665.67
4/10/2013	771.10		73.80	678.13	41.60	710.32	95.80	715.72	132.40	679.11	75.10	679.26	88.70	665.67
4/30/2013	772.20	0.00	73.80	678.13	41.60	710.32	95.80	715.72	132.40	679.11	75.10	679.26	88.70	665.67
5/9/2013	771.90		73.90	678.03	42.00	709.92	95.90	715.62	132.00	679.51	75.60	678.76	89.00	665.37

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
5/15/2013	771.70		73.90	678.03	42.00	709.92	95.90	715.62	132.00	679.51	75.60	678.76	89.00	665.37
5/22/2013	771.40		73.90	678.03	42.00	709.92	95.90	715.62	132.00	679.51	75.60	678.76	89.00	665.37
5/30/2013	771.00	0.00	73.50	678.43	42.00	709.92	95.90	715.62	132.00	679.51	75.90	678.46	88.20	666.17
6/6/2013	770.80		73.80	678.13	42.20	709.72	96.00	715.52	129.90	681.61	75.50	678.86	88.80	665.57
6/13/2013	769.30		73.80	678.13	42.20	709.72	96.00	715.52	129.90	681.61	75.50	678.86	88.70	665.67
6/20/2013	769.00		73.80	678.13	42.40	709.52	96.00	715.52	132.40	679.11	75.50	678.86	88.70	665.67
6/26/2013	768.60	0.00	73.80	678.13	42.10	709.82	96.00	715.52	132.40	679.11	75.50	678.86	88.20	666.17
7/2/2013	767.80		73.80	678.13	42.70	709.22	96.00	715.52	129.90	681.61	75.50	678.86	88.80	665.57
7/10/2013	766.90		73.80	678.13	42.70	709.22	96.00	715.52	129.90	681.61	75.60	678.76	88.80	665.57
7/16/2013	766.50		73.80	678.13	42.70	709.22	95.90	715.62	129.80	681.71	75.80	678.56	88.70	665.67
7/29/2013	765.20	0.00	73.80	678.13	42.70	709.22	95.90	715.62	129.80	681.71	75.80	678.56	88.70	665.67
8/5/2013	764.50		73.80	678.13	42.70	709.22	96.00	715.52	129.90	681.61	75.50	678.86	88.80	665.57
8/12/2013	763.80		73.80	678.13	42.70	709.22	95.80	715.72	129.90	681.61	75.50	678.86	88.80	665.57
8/19/2013	763.30		73.80	678.13	42.90	709.02	95.80	715.72	131.80	679.71	75.50	678.86	88.80	665.57
8/26/2013	762.40	0.00	73.80	678.13	42.90	709.02	95.80	715.72	130.40	681.11	75.50	678.86	88.80	665.57
9/2/2013	761.50		73.80	678.13	42.70	709.22	96.00	715.52	129.90	681.61	75.50	678.86	88.80	665.57
9/10/2013	760.70		73.80	678.13	43.20	708.72	96.00	715.52	129.90	681.61	75.50	678.86	88.80	665.57
9/17/2013	759.90		73.80	678.13	42.80	709.12	96.00	715.52	129.90	681.61	75.50	678.86	88.80	665.57
9/23/2013	759.40		73.80	678.13	39.30	712.62	96.00	715.52	129.90	681.61	75.50	678.86	88.80	665.57
9/30/2013	758.70	0.00	73.80	678.13	39.30	712.62	96.00	715.52	129.90	681.61	75.50	678.86	88.80	665.57
10/7/2013	758.30		73.80	678.13	39.50	712.42	95.90	715.62	130.00	681.51	75.50	678.86	88.80	665.57
10/14/2013	757.60		73.80	678.13	39.50	712.42	95.90	715.62	133.20	678.31	75.50	678.86	88.80	665.57
10/21/2013	756.60		73.80	678.13	39.50	712.42	95.90	715.62	133.00	678.51	75.50	678.86	88.80	665.57
10/28/2013	756.00	0.00	73.80	678.13	39.70	712.22	95.90	715.62	133.00	678.51	75.50	678.86	88.80	665.57
11/4/2013	755.70		73.80	678.13	39.80	712.12	95.90	715.62	132.90	678.61	75.50	678.86	88.80	665.57
11/11/2013	756.10		73.80	678.13	39.80	712.12	95.90	715.62	132.90	678.61	75.50	678.86	88.80	665.57
11/18/2013	755.70		73.80	678.13	39.90	712.02	96.00	715.52	132.80	678.71	75.50	678.86	88.70	665.67
11/25/2013	755.40	0.55	73.80	678.13	39.90	712.02	96.00	715.52	132.80	678.71	75.50	678.86	88.70	665.67
12/2/2013	755.30		73.80	678.13	40.00	711.92	95.90	715.62	132.80	678.71	75.50	678.86	88.70	665.67
12/10/2013	755.40		73.90	678.03	40.20	711.72	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
12/16/2013	755.20		73.80	678.13	40.20	711.72	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
12/23/2013	755.20		73.90	678.03	40.30	711.62	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
12/30/2013	754.80	0.83	73.90	678.03	40.40	711.52	96.00	715.52	133.00	678.51	75.50	678.86	88.70	665.67
1/6/2014	754.50		74.10	677.83	40.50	711.42	96.00	715.52	133.30	678.21	75.50	678.86	89.60	664.77
1/13/2014	755.00		73.80	678.13	40.50	711.42	96.10	715.42	133.30	678.21	75.50	678.86	88.70	665.67
1/20/2014	754.60		73.70	678.23	40.60	711.32	96.10	715.42	132.90	678.61	75.50	678.86	88.70	665.67
1/27/2014	754.30	0.00	73.70	678.23	40.70	711.22	96.10	715.42	132.90	678.61	75.50	678.86	88.70	665.67
2/3/2014	754.10		73.90	678.03	40.50	711.42	96.00	715.52	132.70	678.81	75.50	678.86	88.70	665.67
2/10/2014	754.70		73.90	678.03	40.80	711.12	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
2/17/2014	754.50		73.80	678.13	40.80	711.12	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
2/24/2014	754.20	0.83	73.80	678.13	40.80	711.12	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
3/3/2014	754.50		73.80	678.13	40.80	711.12	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U		R-5L		R-6U		R-6L		R-7U		R-7L	
3/10/2014	755.20		73.80	678.13	40.80	711.12	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
3/19/2014	755.90		73.80	678.13	41.20	710.72	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
3/25/2014	758.80		73.80	678.13	41.20	710.72	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
3/29/2014	760.50		73.80	678.13	41.20	710.72	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
3/31/2014	761.60	1.85	73.80	678.13	41.20	710.72	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
4/1/2014	762.00		73.80	678.13	41.40	710.52	96.00	715.52	132.30	679.21	75.50	678.86	88.70	665.67
4/8/2014	764.70		73.80	678.13	41.40	710.52	96.00	715.52	132.30	679.21	75.50	678.86	88.70	665.67
4/15/2014	766.60		73.80	678.13	41.40	710.52	96.00	715.52	132.30	679.21	75.50	678.86	88.70	665.67
4/22/2014	768.60		73.80	678.13	41.40	710.52	96.00	715.52	132.30	679.21	75.50	678.86	88.70	665.67
4/29/2014	770.40	0.88	73.80	678.13	41.40	710.52	96.00	715.52	132.30	679.21	75.50	678.86	88.70	665.67
5/5/2014	769.70		73.80	678.13	41.60	710.32	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
5/12/2014	769.00		73.80	678.13	41.60	710.32	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
5/19/2014	768.00		73.80	678.13	41.60	710.32	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
5/26/2014	767.10	0.00	73.90	678.03	41.60	710.32	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
6/2/2014	766.20		73.90	678.03	41.90	710.02	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
6/9/2014	765.40		73.90	678.03	41.90	710.02	96.00	715.52	132.60	678.91	75.50	678.86	88.70	665.67
6/16/2014	764.30		74.00	677.93	42.00	709.92	96.10	715.42	132.60	678.91	75.50	678.86	88.70	665.67
6/23/2014	763.10		74.00	677.93	42.00	709.92	96.10	715.42	132.60	678.91	75.50	678.86	88.70	665.67
6/27/2014	762.30	0.00	74.00	677.93	42.00	709.92	96.10	715.42	132.60	678.91	75.50	678.86	88.70	665.67
7/7/2014	760.90		73.90	678.03	42.20	709.72	96.30	715.22	132.60	678.91	75.50	678.86	88.70	665.67
7/14/2014	760.00		73.90	678.03	42.20	709.72	96.30	715.22	132.60	678.91	75.50	678.86	88.70	665.67
7/21/2014	759.10		73.90	678.03	42.30	709.62	96.50	715.02	132.60	678.91	75.50	678.86	88.70	665.67
7/28/2014	757.90	0.06	73.90	678.03	42.30	709.62	96.50	715.02	132.60	678.91	75.50	678.86	88.70	665.67
8/4/2014	756.80		73.90	678.03	42.40	709.52	96.70	714.82	132.60	678.91	75.50	678.86	88.70	665.67
8/11/2014	755.60		73.90	678.03	42.40	709.52	96.70	714.82	132.60	678.91	75.50	678.86	88.70	665.67
8/18/2014	754.70		73.80	678.13	42.60	709.32	96.40	715.12	132.70	678.81	75.50	678.86	88.70	665.67
8/25/2014	753.30	0.05	73.80	678.13	42.60	709.32	96.40	715.12	132.70	678.81	75.50	678.86	88.70	665.67
9/2/2014	751.60		73.80	678.13	42.80	709.12	96.50	715.02	132.70	678.81	75.50	678.86	88.70	665.67
9/8/2014	750.50		73.80	678.13	42.80	709.12	96.50	715.02	132.70	678.81	75.50	678.86	88.70	665.67
9/15/2014	749.40		73.80	678.13	42.80	709.12	96.50	715.02	132.70	678.81	75.50	678.86	88.70	665.67
9/22/2014	748.30		73.80	678.13	42.80	709.12	96.50	715.02	132.70	678.81	75.50	678.86	88.70	665.67
9/29/2014	747.20	0.00	73.90	678.03	42.90	709.02	96.50	715.02	132.70	678.81	75.50	678.86	88.70	665.67
10/6/2014	745.70		73.90	678.03	43.10	708.82	96.50	715.02	132.70	678.81	75.50	678.86	88.70	665.67
10/13/2014	746.70		73.90	678.03	43.10	708.82	97.70	713.82	133.10	678.41	75.50	678.86	88.70	665.67
10/20/2014	746.60		73.90	678.03	43.10	708.82	97.80	713.72	133.10	678.41	75.50	678.86	88.70	665.67
10/27/2014	745.80	0.00	73.90	678.03	43.10	708.82	98.00	713.52	133.10	678.41	75.50	678.86	88.70	665.67
11/3/2014	746.40		73.90	678.03	43.10	708.82	98.00	713.52	133.20	678.31	75.50	678.86	88.70	665.67
11/10/2014	747.20		73.90	678.03	43.10	708.82	98.00	713.52	133.20	678.31	75.50	678.86	88.70	665.67
11/17/2014	747.70		73.90	678.03	43.30	708.62	98.10	713.42	133.30	678.21	75.50	678.86	88.70	665.67
11/24/2014	748.80	0.61	73.90	678.03	43.30	708.62	98.10	713.42	133.30	678.21	75.50	678.86	88.70	665.67
12/1/2014	748.30		73.90	678.03	43.60	708.32	98.50	713.02	133.20	678.31	75.50	678.86	88.70	665.67
12/8/2014	749.10		73.90	678.03	43.70	708.22	98.50	713.02	133.20	678.31	75.50	678.86	88.70	665.67

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U		R-5L		R-6U		R-6L		R-7U		R-7L	
12/15/2014	749.80		73.90	678.03	43.70	708.22	99.60	711.92	133.30	678.21	75.50	678.86	88.70	665.67
12/29/2014	750.90	5.37	73.90	678.03	43.90	708.02	100.80	710.72	133.30	678.21	75.50	678.86	88.70	665.67
1/5/2015	751.30		73.90	678.03	43.90	708.02	100.80	710.72	133.30	678.21	75.50	678.86	88.70	665.67
1/12/2015	751.80		74.00	677.93	43.90	708.02	99.90	711.62	133.10	678.41	75.50	678.86	88.70	665.67
1/19/2015	752.30		74.00	677.93	43.90	708.02	99.90	711.62	133.10	678.41	75.50	678.86	88.70	665.67
1/26/2015	752.60	1.48	73.90	678.03	44.10	707.82	99.90	711.62	133.10	678.41	75.50	678.86	88.70	665.67
2/4/2015	753.10		73.90	678.03	43.90	708.02	100.80	710.72	133.30	678.21	75.50	678.86	88.70	665.67
2/9/2015	753.30		73.90	678.03	44.20	707.72	100.80	710.72	133.30	678.21	75.50	678.86	88.70	665.67
2/16/2015	753.80		73.90	678.03	44.30	707.62	100.80	710.72	133.40	678.11	75.50	678.86	88.70	665.67
2/23/2015	753.90	0.44	73.90	678.03	44.30	707.62	100.80	710.72	133.40	678.11	75.50	678.86	88.70	665.67
3/2/2015	754.50		73.90	678.03	44.40	707.52	100.90	710.62	133.40	678.11	75.50	678.86	88.70	665.67
3/9/2015	755.00		73.90	678.03	44.40	707.52	100.90	710.62	133.40	678.11	75.50	678.86	88.70	665.67
3/16/2015	755.30		73.90	678.03	44.60	707.32	101.40	710.12	133.40	678.11	75.50	678.86	88.70	665.67
3/23/2015	755.50		73.90	678.03	44.60	707.32	101.40	710.12	133.40	678.11	75.50	678.86	88.70	665.67
3/30/2015	755.70	0.57	73.90	678.03	44.60	707.32	101.80	709.72	133.70	677.81	75.50	678.86	88.70	665.67
4/6/2015	755.60		73.90	678.03	44.60	707.32	101.80	709.72	133.70	677.81	75.50	678.86	88.70	665.67
4/13/2015	755.80		73.90	678.03	44.80	707.12	102.30	709.22	133.70	677.81	75.50	678.86	88.70	665.67
4/20/2015	755.90		73.90	678.03	44.90	707.02	102.00	709.52	133.70	677.81	75.50	678.86	88.70	665.67
4/27/2015	755.90	0.20	73.90	678.03	44.90	707.02	102.00	709.52	133.70	677.81	75.50	678.86	88.70	665.67
5/4/2015	755.60		73.90	678.03	44.90	707.02	102.70	708.82	133.70	677.81	75.50	678.86	88.70	665.67
5/11/2015	755.30		73.90	678.03	44.90	707.02	102.70	708.82	133.70	677.81	75.50	678.86	88.70	665.67
5/18/2015	755.20		73.90	678.03	45.10	706.82	103.20	708.32	133.70	677.81	75.50	678.86	88.70	665.67
5/26/2015	755.30	0.95	73.90	678.03	45.10	706.82	103.20	708.32	133.70	677.81	75.50	678.86	88.70	665.67
6/1/2015	755.20		73.90	678.03	45.30	706.62	103.70	707.82	134.10	677.41	75.50	678.86	88.90	665.47
6/8/2015	755.10		73.90	678.03	45.30	706.62	103.70	707.82	134.10	677.41	75.50	678.86	88.90	665.47
6/15/2015	755.20		73.90	678.03	45.40	706.52	104.40	707.12	134.10	677.41	75.50	678.86	88.90	665.47
6/22/2015	754.80		73.90	678.03	45.40	706.52	104.40	707.12	134.10	677.41	75.50	678.86	88.90	665.47
6/29/2015	754.20	0.00	73.90	678.03	45.40	706.52	104.40	707.12	134.10	677.41	75.50	678.86	88.90	665.47
7/10/2015	753.30		73.90	678.03	37.00	714.92	105.20	706.32	134.00	677.51	75.50	678.86	88.60	665.77
7/15/2015	753.00		73.90	678.03	37.10	714.82	105.40	706.12	134.00	677.51	75.50	678.86	88.60	665.77
7/21/2015	752.80		73.90	678.03	37.20	714.72	105.30	706.22	134.20	677.31	75.50	678.86	88.60	665.77
7/28/2015	752.40	0.00	73.90	678.03	37.20	714.72	105.30	706.22	134.50	677.01	75.50	678.86	88.60	665.77
8/4/2015	752.00		73.90	678.03	37.20	714.72	105.30	706.22	134.50	677.01	75.50	678.86	88.60	665.77
8/11/2015	751.60		73.90	678.03	37.30	714.62	105.60	705.92	134.70	676.81	75.50	678.86	88.90	665.47
8/18/2015	751.10		73.90	678.03	37.30	714.62	105.60	705.92	134.70	676.81	75.50	678.86	88.90	665.47
8/25/2015	750.60	0.00	73.90	678.03	37.40	714.52	105.70	705.82	134.80	676.71	75.50	678.86	88.70	665.67
9/1/2015	749.90		73.90	678.03	37.40	714.52	105.70	705.82	134.80	676.71	75.50	678.86	88.70	665.67
9/8/2015	749.00		73.90	678.03	37.40	714.52	105.70	705.82	134.80	676.71	75.50	678.86	88.70	665.67
9/15/2015	748.70		73.90	678.03	37.40	714.52	105.70	705.82	134.80	676.71	75.50	678.86	88.70	665.67
9/22/2015	748.40		73.90	678.03	37.40	714.52	106.50	705.02	134.80	676.71	75.50	678.86	88.70	665.67
9/29/2015	748.00	2.27	73.90	678.03	37.40	714.52	107.20	704.32	134.80	676.71	75.50	678.86	88.70	665.67
10/6/2015	747.60		73.90	678.03	37.50	714.42	107.20	704.32	134.80	676.71	75.50	678.86	88.70	665.67

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U		R-5L		R-6U		R-6L		R-7U		R-7L	
10/13/2015	747.10		73.90	678.03	38.00	713.92	107.50	704.02	134.80	676.71	75.50	678.86	89.00	665.37
10/20/2015	746.70		73.90	678.03	38.00	713.92	107.50	704.02	134.80	676.71	75.50	678.86	89.00	665.37
10/27/2015	746.00	0.56	73.90	678.03	38.00	713.92	107.50	704.02	134.80	676.71	75.50	678.86	89.00	665.37
11/4/2015	745.70		73.90	678.03	38.10	713.82	107.50	704.02	134.80	676.71	75.50	678.86	89.00	665.37
11/11/2015	745.20		73.90	678.03	38.10	713.82	107.50	704.02	134.80	676.71	75.50	678.86	89.00	665.37
11/18/2015	744.80		73.90	678.03	38.20	713.72	107.50	704.02	134.80	676.71	75.50	678.86	88.60	665.77
11/25/2015	744.20	0.12	73.90	678.03	38.20	713.72	107.50	704.02	134.80	676.71	75.50	678.86	88.60	665.77
12/1/2015	743.70		73.90	678.03	38.30	713.62	110.40	701.12	135.00	676.51	75.50	678.86	88.60	665.77
12/8/2015	743.10		73.90	678.03	38.50	713.42	110.50	701.02	135.10	676.41	75.50	678.86	88.60	665.77
12/15/2015	742.70		73.90	678.03	38.60	713.32	111.20	700.32	135.20	676.31	75.50	678.86	88.60	665.77
12/22/2015	742.30		73.90	678.03	38.50	713.42	111.20	700.32	135.20	676.31	75.50	678.86	88.60	665.77
12/29/2015	742.10	1.29	73.90	678.03	38.60	713.32	110.60	700.92	135.20	676.31	75.50	678.86	89.00	665.37
1/5/2016	741.70		73.90	678.03	38.70	713.22	111.50	700.02	135.40	676.11	77.50	676.86	88.60	665.77
1/12/2016	742.30		73.90	678.03	38.70	713.22	111.50	700.02	135.40	676.11	77.50	676.86	88.60	665.77
1/19/2016	742.00		73.90	678.03	38.80	713.12	111.50	700.02	135.40	676.11	77.50	676.86	88.60	665.77
1/26/2016	741.80	3.51	73.90	678.03	39.00	712.92	111.60	699.92	135.40	676.11	77.50	676.86	88.60	665.77
2/2/2016	741.40		73.90	678.03	39.00	712.92	111.60	699.92	135.40	676.11	77.50	676.86	88.60	665.77
2/9/2016	741.00		73.90	678.03	39.10	712.82	111.20	700.32	135.40	676.11	77.50	676.86	88.60	665.77
2/16/2016	740.50		73.90	678.03	39.20	712.72	111.30	700.22	135.40	676.11	77.50	676.86	88.60	665.77
2/23/2016	740.20	0.35	74.00	677.93	39.30	712.62	111.30	700.22	135.40	676.11	77.50	676.86	88.60	665.77
3/1/2016	739.70		74.00	677.93	39.30	712.62	111.30	700.22	135.40	676.11	77.50	676.86	88.60	665.77
3/9/2016	739.40		74.00	677.93	39.40	712.52	110.90	700.62	135.40	676.11	77.50	676.86	88.60	665.77
3/17/2016	739.30		74.00	677.93	39.40	712.52	111.00	700.52	135.40	676.11	77.50	676.86	88.60	665.77
3/23/2016	739.10		74.00	677.93	39.50	712.42	111.00	700.52	135.40	676.11	77.50	676.86	88.80	665.57
3/30/2016	738.50	1.59	74.00	677.93	39.60	712.32	111.00	700.52	135.40	676.11	77.50	676.86	89.00	665.37
4/6/2016	738.00		74.00	677.93	39.60	712.32	111.30	700.22	135.40	676.11	77.50	676.86	89.00	665.37
4/13/2016	737.60		74.00	677.93	39.80	712.12	111.50	700.02	135.40	676.11	77.50	676.86	89.00	665.37
4/20/2016	736.90		74.00	677.93	39.70	712.22	111.40	700.12	135.40	676.11	77.50	676.86	89.00	665.37
4/27/2016	736.20	0.07	74.00	677.93	39.70	712.22	111.40	700.12	135.40	676.11	77.50	676.86	89.00	665.37
5/4/2016	736.90		74.00	677.93	39.60	712.32	111.30	700.22	135.40	676.11	77.50	676.86	89.00	665.37
5/11/2016	737.50		74.00	677.93	39.80	712.12	111.60	699.92	135.40	676.11	77.50	676.86	89.00	665.37
5/18/2016	737.00		74.00	677.93	40.00	711.92	112.20	699.32	135.40	676.11	77.50	676.86	89.00	665.37
5/25/2016	737.60	1.21	73.90	678.03	40.20	711.72	112.60	698.92	135.40	676.11	77.50	676.86	89.00	665.37
6/1/2016	737.60		73.90	678.03	40.20	711.72	112.60	698.92	135.40	676.11	75.50	678.86	89.00	665.37
6/8/2016	737.90		73.90	678.03	40.20	711.72	112.60	698.92	135.40	676.11	75.50	678.86	89.00	665.37
6/15/2016	738.00		73.90	678.03	40.20	711.72	112.60	698.92	135.40	676.11	75.50	678.86	88.60	665.77
6/23/2016	737.70		73.90	678.03	40.20	711.72	112.60	698.92	135.50	676.01	75.50	678.86	88.40	665.97
6/29/2016	737.50	0.00	73.90	678.03	40.20	711.72	112.60	698.92	135.50	676.01	75.50	678.86	88.50	665.87
7/6/2016	737.40		73.90	678.03	40.40	711.52	112.60	698.92	135.50	676.01	75.50	678.86	88.50	665.87
7/15/2016	737.40		73.90	678.03	40.60	711.32	112.60	698.92	135.50	676.01	75.50	678.86	88.50	665.87
7/20/2016	737.10		73.90	678.03	40.80	711.12	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
7/27/2016	736.70	0.00	73.90	678.03	40.80	711.12	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U		R-5L		R-6U		R-6L		R-7U		R-7L	
8/3/2016	736.90		73.90	678.03	41.00	710.92	112.60	698.92	135.60	675.91	75.50	678.86	88.40	665.97
8/10/2016	737.10		73.90	678.03	40.90	711.02	112.60	698.92	135.60	675.91	75.50	678.86	88.40	665.97
8/17/2016	736.60		73.90	678.03	41.10	710.82	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
8/24/2016	736.70		73.90	678.03	41.10	710.82	112.60	698.92	135.60	675.91	75.50	678.86	90.00	664.37
8/30/2016	736.70	0.00	73.90	678.03	41.10	710.82	112.60	698.92	135.60	675.91	75.50	678.86	91.00	663.37
9/7/2016	737.30		73.90	678.03	41.10	710.82	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
9/14/2016	737.90		73.90	678.03	41.80	710.12	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
9/21/2016	738.80		73.90	678.03	42.40	709.52	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
9/28/2016	739.60	0.00	73.90	678.03	42.60	709.32	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
10/5/2016	739.50		73.90	678.03	42.60	709.32	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
10/12/2016	739.20		73.90	678.03	42.90	709.02	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
10/19/2016	739.30		73.90	678.03	43.30	708.62	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
10/26/2016	740.00	0.89	73.90	678.03	43.20	708.72	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
11/2/2016	741.80		73.90	678.03	43.20	708.72	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
11/9/2016	741.80		73.90	678.03	43.20	708.72	112.60	698.92	135.60	675.91	75.50	678.86	89.00	665.37
11/16/2016	744.00		73.90	678.03	43.20	708.72	112.60	698.92	135.70	675.81	75.50	678.86	89.00	665.37
11/23/2016	747.60		73.90	678.03	43.20	708.72	112.60	698.92	135.70	675.81	75.50	678.86	89.00	665.37
11/29/2016	750.90	1.62	73.90	678.03	43.20	708.72	112.60	698.92	135.70	675.81	75.50	678.86	89.00	665.37
12/7/2016	753.40		73.90	678.03	43.20	708.72	112.60	698.92	135.70	675.81	75.50	678.86	89.00	665.37
12/14/2016	753.70		73.90	678.03	44.70	707.22	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
12/21/2016	755.60		73.90	678.03	45.10	706.82	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
12/28/2016	757.00	4.37	73.90	678.03	45.70	706.22	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
1/4/2017	757.50		73.90	678.03	45.70	706.22	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
1/13/2017	758.10		73.90	678.03	46.30	705.62	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
1/18/2017	758.30		73.90	678.03	46.50	705.42	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
1/25/2017	758.00	6.73	73.70	678.23	46.70	705.22	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
2/1/2017	769.10		73.70	678.23	46.70	705.22	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
2/8/2017	769.70		73.90	678.03	47.00	704.92	112.60	698.92	135.80	675.71	75.50	678.86	88.60	665.77
2/15/2017	770.10		73.90	678.03	46.80	705.12	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
2/22/2017	771.80	4.17	73.90	678.03	46.70	705.22	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
3/1/2017	771.90		73.90	678.03	46.70	705.22	112.60	698.92	135.70	675.81	75.50	678.86	88.60	665.77
3/8/2017	771.20		73.90	678.03	46.70	705.22	112.60	698.92	135.80	675.71	75.50	678.86	88.60	665.77
3/15/2017	770.60		74.10	677.83	47.60	704.32	112.30	699.22	135.90	675.61	75.50	678.86	88.60	665.77
3/22/2017	769.60		74.00	677.93	48.50	703.42	112.60	698.92	135.90	675.61	75.50	678.86	88.60	665.77
3/29/2017	768.40	0.13	73.90	678.03	48.70	703.22	112.60	698.92	135.90	675.61	75.50	678.86	88.60	665.77
4/5/2017	769.10		73.90	678.03	48.70	703.22	112.60	698.92	135.90	675.61	75.50	678.86	88.60	665.77
4/12/2017	768.00		73.90	678.03	48.80	703.12	111.90	699.62	135.90	675.61	75.50	678.86	88.60	665.77
4/19/2017	767.90		73.90	678.03	49.30	702.62	111.80	699.72	135.90	675.61	75.50	678.86	88.60	665.77
4/26/2017	767.70	0.07	73.90	678.03	49.30	702.62	111.90	699.62	135.90	675.61	75.50	678.86	88.60	665.77
5/1/2017	767.40		73.90	678.03	49.30	702.62	111.90	699.62	135.90	675.61	75.50	678.86	88.60	665.77
5/10/2017	766.50		73.90	678.03	49.60	702.32	111.60	699.92	135.60	675.91	75.50	678.86	88.60	665.77
5/17/2017	765.90		73.90	678.03	50.00	701.92	111.50	700.02	135.60	675.91	75.50	678.86	88.90	665.47

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
5/24/2017	765.70		73.90	678.03	50.00	701.92	111.50	700.02	135.60	675.91	75.50	678.86	88.90	665.47
5/30/2017	765.50	0.36	73.90	678.03	49.90	702.02	111.50	700.02	135.60	675.91	75.50	678.86	88.90	665.47
6/7/2017	765.30		73.90	678.03	50.20	701.72	111.50	700.02	135.60	675.91	75.50	678.86	88.90	665.47
6/14/2017	765.10		73.90	678.03	50.40	701.52	111.40	700.12	135.60	675.91	75.50	678.86	88.90	665.47
6/21/2017	764.80		73.90	678.03	50.70	701.22	111.40	700.12	135.70	675.81	75.50	678.86	88.90	665.47
6/28/2017	764.70	0.05	73.90	678.03	50.70	701.22	111.10	700.42	135.70	675.81	75.50	678.86	88.90	665.47
7/5/2017	764.20		73.90	678.03	51.50	700.42	111.10	700.42	135.70	675.81	75.50	678.86	89.00	665.37
7/12/2017	763.80		73.90	678.03	51.70	700.22	111.30	700.22	135.70	675.81	75.50	678.86	89.00	665.37
7/19/2017	763.20		73.90	678.03	51.80	700.12	111.30	700.22	135.70	675.81	75.50	678.86	89.00	665.37
7/26/2017	762.70	0.00	73.90	678.03	51.80	700.12	111.20	700.32	135.70	675.81	75.50	678.86	89.00	665.37
8/2/2017	761.90		73.90	678.03	51.80	700.12	111.20	700.32	135.70	675.81	75.50	678.86	89.00	665.37
8/9/2017	761.60		73.90	678.03	51.80	700.12	111.20	700.32	135.70	675.81	75.50	678.86	89.00	665.37
8/16/2017	761.20		73.90	678.03	52.20	699.72	111.20	700.32	135.70	675.81	75.50	678.86	89.00	665.37
8/23/2017	760.60		73.90	678.03	52.30	699.62	111.20	700.32	135.70	675.81	75.50	678.86	89.00	665.37
8/30/2017	759.80	0.05	73.90	678.03	52.30	699.62	111.20	700.32	135.70	675.81	75.50	678.86	89.00	665.37
9/6/2017	758.90		73.90	678.03	52.50	699.42	111.20	700.32	135.70	675.81	75.50	678.86	90.00	664.37
9/13/2017	758.70		74.10	677.83	52.90	699.02	111.10	700.42	135.60	675.91	75.50	678.86	91.00	663.37
9/20/2017	758.30		74.20	677.73	53.10	698.82	111.20	700.32	135.70	675.81	75.50	678.86	88.50	665.87
9/27/2017	757.80	0.00	74.20	677.73	53.20	698.72	111.20	700.32	135.70	675.81	75.50	678.86	88.50	665.87
10/4/2017	757.60		74.20	677.73	53.40	698.52	111.20	700.32	135.70	675.81	75.50	678.86	88.50	665.87
10/10/2017	757.10		74.10	677.83	53.40	698.52	111.10	700.42	135.80	675.71	75.50	678.86	88.80	665.57
10/18/2017	756.90		74.10	677.83	53.60	698.32	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
10/25/2017	756.60	0.00	74.10	677.83	53.70	698.22	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
11/1/2017	755.70		74.10	677.83	53.80	698.12	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
11/8/2017	755.30		74.10	677.83	54.00	697.92	111.00	700.52	135.60	675.91	75.50	678.86	88.80	665.57
11/15/2017	755.10	0.29	74.10	677.83	54.30	697.62	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
12/6/2017	754.20		74.10	677.83	54.40	697.52	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
12/13/2017	753.90		74.10	677.83	54.70	697.22	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
12/20/2017	753.60		74.10	677.83	54.90	697.02	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
12/27/2017	753.30	0.00	74.10	677.83	55.00	696.92	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
1/3/2018	753.10		74.00	677.93	55.00	696.92	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
1/10/2018	753.10		73.90	678.03	53.90	698.02	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
1/17/2018	753.00		74.00	677.93	51.10	700.82	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
1/24/2018	752.80		74.00	677.93	50.50	701.42	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
1/30/2018	752.60	1.79	74.00	677.93	49.50	702.42	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
2/7/2018	752.30		74.00	677.93	49.50	702.42	111.00	700.52	135.80	675.71	75.50	678.86	88.80	665.57
2/14/2018	751.80		73.90	678.03	50.20	701.72	111.00	700.52	135.80	675.71	74.30	680.06	88.40	665.97
2/21/2018	750.20		73.90	678.03	50.20	701.72	111.00	700.52	135.80	675.71	75.40	678.96	88.40	665.97
2/27/2018	750.30	0.60	73.90	678.03	50.40	701.52	111.00	700.52	135.80	675.71	75.40	678.96	88.40	665.97
3/7/2018	750.20		73.90	678.03	50.40	701.52	111.00	700.52	135.80	675.71	75.40	678.96	88.40	665.97
3/15/2018	750.10		73.90	678.03	50.60	701.32	111.00	700.52	135.80	675.71	77.50	676.86	88.40	665.97
3/21/2018	750.80		73.90	678.03	50.80	701.12	111.00	700.52	135.80	675.71	77.50	676.86	88.40	665.97

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U		R-5L		R-6U		R-6L		R-7U		R-7L	
3/28/2018	750.90	0.56	73.90	678.03	50.90	701.02	111.10	700.42	135.80	675.71	77.50	676.86	88.40	665.97
4/4/2018	751.70		73.90	678.03	50.90	701.02	111.20	700.32	135.80	675.71	77.50	676.86	88.40	665.97
4/11/2018	751.70		73.90	678.03	51.10	700.82	111.40	700.12	135.80	675.71	77.50	676.86	88.50	665.87
4/18/2018	750.80		73.90	678.03	51.30	700.62	111.30	700.22	135.80	675.71	77.50	676.86	88.50	665.87
4/25/2018	749.50	0.05	73.90	678.03	51.40	700.52	111.40	700.12	135.80	675.71	77.50	676.86	88.50	665.87
5/1/2018	750.50		73.90	678.03	51.40	700.52	111.40	700.12	135.80	675.71	77.50	676.86	88.50	665.87
5/8/2018	749.40		73.90	678.03	51.50	700.42	111.40	700.12	135.80	675.71	77.50	676.86	88.50	665.87
5/15/2018	748.30		73.90	678.03	51.60	700.32	111.30	700.22	135.80	675.71	77.50	676.86	88.50	665.87
5/22/2018	747.00		73.90	678.03	51.70	700.22	111.30	700.22	135.80	675.71	77.50	676.86	88.50	665.87
5/29/2018	745.60	0.32	73.90	678.03	51.80	700.12	111.20	700.32	135.80	675.71	77.50	676.86	88.50	665.87
6/6/2018	744.70		74.00	677.93	51.80	700.12	111.20	700.32	135.80	675.71	77.50	676.86	88.50	665.87
6/13/2018	743.70		74.20	677.73	51.90	700.02	111.20	700.32	135.80	675.71	77.50	676.86	88.70	665.67
6/20/2018	742.50		74.20	677.73	51.90	700.02	111.20	700.32	135.80	675.71	77.50	676.86	88.70	665.67
6/27/2018	741.20	0.00	74.20	677.73	52.10	699.82	111.20	700.32	135.80	675.71	77.50	676.86	88.70	665.67
7/5/2018	739.80		74.20	677.73	52.10	699.82	111.20	700.32	135.80	675.71	77.50	676.86	88.70	665.67
7/11/2018	738.70		74.20	677.73	52.20	699.72	111.20	700.32	135.80	675.71	77.50	676.86	88.70	665.67
7/18/2018	738.50		74.20	677.73	52.30	699.62	111.30	700.22	135.90	675.61	77.50	676.86	88.70	665.67
7/25/2018	738.40	0.00	74.20	677.73	52.40	699.52	111.30	700.22	135.90	675.61	77.50	676.86	88.70	665.67
8/1/2018	738.10		74.20	677.73	52.50	699.42	111.30	700.22	135.90	675.61	77.50	676.86	88.70	665.67
8/8/2018	737.80		74.20	677.73	52.50	699.42	111.40	700.12	135.90	675.61	77.50	676.86	88.70	665.67
8/15/2018	737.70		74.20	677.73	52.60	699.32	111.40	700.12	135.90	675.61	77.50	676.86	88.70	665.67
8/22/2018	737.90		74.20	677.73	52.70	699.22	111.40	700.12	135.90	675.61	77.50	676.86	88.70	665.67
8/29/2018	737.90	0.00	74.20	677.73	52.80	699.12	111.50	700.02	135.90	675.61	77.50	676.86	88.70	665.67
9/5/2018	738.00		74.20	677.73	52.80	699.12	111.50	700.02	135.90	675.61	77.50	676.86	88.70	665.67
9/12/2018	737.90		74.20	677.73	52.90	699.02	111.50	700.02	135.90	675.61	77.50	676.86	88.70	665.67
9/19/2018	737.60		74.20	677.73	53.00	698.92	111.50	700.02	135.90	675.61	77.50	676.86	88.70	665.67
9/26/2018	737.30	0.00	74.20	677.73	53.00	698.92	111.50	700.02	135.90	675.61	77.50	676.86	88.70	665.67
10/3/2018	737.50		74.20	677.73	53.00	698.92	111.60	699.92	135.90	675.61	77.50	676.86	88.70	665.67
10/10/2018	737.70		74.10	677.83	53.10	698.82	111.70	699.82	135.90	675.61	77.50	676.86	88.70	665.67
10/17/2018	738.20		74.10	677.83	53.10	698.82	111.80	699.72	135.90	675.61	77.50	676.86	88.70	665.67
10/24/2018	738.60		74.10	677.83	53.10	698.82	112.30	699.22	135.90	675.61	77.50	676.86	88.70	665.67
10/30/2018	738.50	0.69	74.10	677.83	53.10	698.82	112.30	699.22	135.90	675.61	77.50	676.86	88.70	665.67
11/7/2018	738.40		73.80	678.13	53.30	698.62	112.60	698.92	135.90	675.61	77.50	676.86	88.70	665.67
11/16/2018	737.70		74.00	677.93	53.40	698.52	112.60	698.92	135.90	675.61	77.50	676.86	88.70	665.67
11/21/2018	737.50		74.20	677.73	53.50	698.42	112.60	698.92	135.90	675.61	77.50	676.86	88.70	665.67
11/28/2018	737.20	1.66	74.30	677.63	53.60	698.32	112.60	698.92	135.90	675.61	77.50	676.86	88.70	665.67
12/5/2018	737.60		74.10	677.83	53.70	698.22	112.60	698.92	135.90	675.61	77.50	676.86	88.70	665.67
12/12/2018	737.70		74.00	677.93	53.80	698.12	112.60	698.92	135.90	675.61	77.50	676.86	88.70	665.67
12/19/2018	737.60		74.00	677.93	53.90	698.02	112.60	698.92	135.90	675.61	77.50	676.86	88.70	665.67
12/27/2018	737.40	2.05	74.00	677.93	53.90	698.02	112.60	698.92	135.90	675.61	77.50	676.86	88.70	665.67
1/2/2019	737.10		74.00	677.93	53.90	698.02	112.60	698.92	135.90	675.61	77.50	676.86	88.70	665.67
1/9/2019	738.40		74.00	677.93	60.00	698.02	112.60	698.92	134.50	677.01	77.50	676.86	88.70	665.67

- Notes:
1. Readings in red are classified as erroneous.
 2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
1/16/2019	738.50		74.00	677.93	53.50	698.42	112.60	698.92	134.20	677.31	77.50	676.86	88.70	665.67
1/23/2019	740.80		74.00	677.93	53.00	698.92	112.60	698.92	134.00	677.51	77.50	676.86	88.70	665.67
1/30/2019	740.70	5.18	74.00	677.93	53.10	698.82	112.60	698.92	133.70	677.81	77.50	676.86	88.70	665.67
2/6/2019	745.80		74.00	677.93	52.80	699.12	112.60	698.92	131.70	679.81	77.50	676.86	88.70	665.67
2/13/2019	747.80		74.00	677.93	52.30	699.62	112.60	698.92	130.70	680.81	77.50	676.86	88.70	665.67
2/20/2019	764.70		74.00	677.93	44.50	707.42	112.60	698.92	130.00	681.51	77.50	676.86	88.70	665.67
2/27/2019	766.80	8.65	74.00	677.93	35.70	716.22	112.60	698.92	130.40	681.11	77.50	676.86	88.70	665.67
3/6/2019	769.50		74.00	677.93	35.70	716.22	112.60	698.92	130.40	681.11	77.50	676.86	88.70	665.67
3/13/2019	772.00		74.00	677.93	36.20	715.72	112.60	698.92	130.50	681.01	77.50	676.86	88.70	665.67
3/20/2019	773.30		74.00	677.93	36.60	715.32	112.60	698.92	130.70	680.81	77.50	676.86	88.70	665.67
3/27/2019	774.30	2.49	74.00	677.93	37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86	88.70	665.67
4/3/2019	774.50		74.00	677.93	37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86	88.70	665.67
4/10/2019	774.70		74.00	677.93	37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86	88.50	665.87
1/17/2019	774.80		74.00	677.93	37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86	88.50	665.87
4/24/2019	774.90	0.10	74.00	677.93	37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86	88.50	665.87
5/1/2019	774.90		74.00	677.93	37.00	714.92	112.60	698.92	130.60	680.91	77.50	676.86	88.50	665.87
5/8/2019	774.90		74.00	677.93	37.00	714.92	112.60	698.92	130.50	681.01	77.50	676.86	88.50	665.87
5/15/2019	774.60		74.00	677.93	37.10	714.82	110.70	700.82	130.50	681.01	77.50	676.86	88.70	665.67
5/22/2019	773.90		74.00	677.93	37.20	714.72	110.80	700.72	130.50	681.01	77.50	676.86	88.70	665.67
5/29/2019	773.10	1.07	74.00	677.93	37.30	714.62	110.90	700.62	130.50	681.01	77.50	676.86	88.70	665.67
6/5/2019	772.10		74.00	677.93	37.40	714.52	110.60	700.92	130.50	681.01	77.50	676.86	88.70	665.67
6/12/2019	770.80		74.00	677.93	37.60	714.32	110.30	701.22	130.50	681.01	77.50	676.86	88.70	665.67
6/19/2019	769.50		74.00	677.93	37.70	714.22	110.40	701.12	130.50	681.01	77.50	676.86	88.70	665.67
6/26/2019	768.10	0.03	74.00	677.93	37.80	714.12	110.00	701.52	130.50	681.01	77.50	676.86	88.70	665.67
7/3/2019	766.70		74.00	677.93	37.80	714.12	110.00	701.52	130.40	681.11	77.50	676.86	88.70	665.67
7/5/2019	766.20		74.00	677.93	38.00	713.92	110.00	701.52	130.40	681.11	77.50	676.86	88.70	665.67
7/10/2019	765.10		74.00	677.93	38.00	713.92	110.00	701.52	130.40	681.11	77.50	676.86	88.70	665.67
7/17/2019	763.40		74.00	677.93	38.20	713.72	110.00	701.52	130.40	681.11	77.50	676.86	88.70	665.67
7/24/2019	761.70		74.00	677.93	38.10	713.82	110.00	701.52	130.40	681.11	77.50	676.86	88.70	665.67
7/30/2019	760.50	0.00	74.00	677.93	38.00	713.92	110.00	701.52	130.40	681.11	77.50	676.86	88.70	665.67
8/7/2019	759.60		74.00	677.93	38.20	713.72	110.00	701.52	130.40	681.11	77.50	676.86	88.70	665.67
8/14/2019	758.80		74.00	677.93	38.40	713.52	110.00	701.52	130.40	681.11	77.50	676.86	88.70	665.67
8/21/2019	757.80		74.00	677.93	38.60	713.32	110.00	701.52	130.50	681.01	77.50	676.86	88.70	665.67
8/28/2019	757.20	0.00	74.00	677.93	38.80	713.12	110.20	701.32	130.60	680.91	77.50	676.86	88.70	665.67
9/4/2019	756.70		74.00	677.93	38.90	713.02	110.20	701.32	130.20	681.31	77.50	676.86	88.70	665.67
9/11/2019	756.30		74.00	677.93	39.10	712.82	110.20	701.32	130.00	681.51	77.50	676.86	88.70	665.67
9/18/2019	755.90		74.00	677.93	39.20	712.72	110.20	701.32	129.90	681.61	76.00	678.36	88.70	665.67
9/25/2019	755.20	0.00	74.00	677.93	39.30	712.62	110.20	701.32	129.80	681.71	76.10	678.26	88.70	665.67
10/2/2019	754.60		74.00	677.93	39.40	712.52	110.20	701.32	129.80	681.71	75.10	679.26	88.70	665.67
10/10/2019	754.30		74.00	677.93	39.60	712.32	110.30	701.22	129.80	681.71	75.10	679.26	88.70	665.67
10/16/2019	753.90		74.00	677.93	39.70	712.22	110.40	701.12	129.80	681.71	75.10	679.26	88.70	665.67
10/26/2019	752.70		74.00	677.93	39.80	712.12	110.50	701.02	129.80	681.71	75.10	679.26	88.70	665.67

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
10/30/2019	752.30	0.00	74.00	677.93	39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26	88.70	665.67
11/6/2019	751.70		74.00	677.93	39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26	88.70	665.67
11/13/2019	751.30		74.00	677.93	39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26	88.70	665.67
11/20/2019	751.20		74.00	677.93	39.80	712.12	110.50	701.02	129.80	681.71	75.10	679.26	88.70	665.67
11/27/2019	751.10	2.38	74.00	677.93	39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26	88.70	665.67
12/4/2019	751.20		74.00	677.93	39.80	712.12	110.60	700.92	129.80	681.71	75.10	679.26	88.70	665.67
12/11/2019	751.40		74.10	677.83	40.40	711.52	111.80	699.72	129.80	681.71	75.10	679.26	88.70	665.67
12/18/2019	751.30		74.10	677.83	40.60	711.32	110.70	700.82	129.80	681.71	75.10	679.26	88.70	665.67
12/26/2019	751.60	4.61	74.10	677.83	40.70	711.22	111.20	700.32	129.80	681.71	75.10	679.26	88.70	665.67
1/2/2020	751.80		74.10	677.83	40.70	711.22	111.50	700.02	129.80	681.71	75.10	679.26	88.70	665.67
1/8/2020	751.90		74.10	677.83	40.80	711.12	111.90	699.62	129.80	681.71	75.10	679.26	88.70	665.67
1/15/2020	751.90		74.10	677.83	40.90	711.02	110.80	700.72	129.80	681.71	75.10	679.26	88.70	665.67
1/22/2020	751.90		74.10	677.83	41.10	710.82	110.60	700.92	129.80	681.71	75.10	679.26	88.70	665.67
1/29/2020	752.00	0.15	74.10	677.83	41.00	710.92	110.50	701.02	129.80	681.71	75.10	679.26	88.70	665.67
2/5/2020	751.90		74.10	677.83	41.00	710.92	110.30	701.22	129.80	681.71	75.10	679.26	88.70	665.67
2/12/2020	751.90		74.10	677.83	41.20	710.72	110.10	701.42	129.80	681.71	75.30	679.06	88.70	665.67
2/19/2020	751.90		74.10	677.83	41.40	710.52	112.80	698.72	130.40	681.11	75.60	678.76	88.70	665.67
2/26/2020	751.90	0.53	74.10	677.83	41.60	710.32	112.80	698.72	130.40	681.11	75.20	679.16	88.70	665.67
3/4/2020	751.80		74.10	677.83	41.60	710.32	112.80	698.72	130.40	681.11	75.20	679.16	88.70	665.67
3/11/2020	751.80		74.10	677.83	41.60	710.32	110.20	701.32	130.40	681.11	75.10	679.26	88.70	665.67
3/18/2020	752.10		74.10	677.83	41.80	710.12	110.40	701.12	130.40	681.11	75.10	679.26	88.70	665.67
3/25/2020	753.30	4.31	74.00	677.93	41.90	710.02	110.40	701.12	130.40	681.11	75.10	679.26	88.70	665.67
4/1/2020	753.60		74.00	677.93	41.90	710.02	110.40	701.12	130.10	681.41	75.10	679.26	88.70	665.67
4/8/2020	755.80		74.10	677.83	42.00	709.92	111.40	700.12	130.10	681.41	75.10	679.26	88.70	665.67
4/15/2020	760.50		74.10	677.83	42.30	709.62	110.80	700.72	130.30	681.21	75.10	679.26	88.70	665.67
4/22/2020	761.50		74.10	677.83	42.30	709.62	110.70	700.82	129.90	681.61	75.10	679.26	88.70	665.67
4/29/2020	761.90	3.88	74.10	677.83	42.30	709.62	110.60	700.92	130.00	681.51	75.10	679.26	88.70	665.67
5/6/2020	761.20		74.10	677.83	42.30	709.62	110.60	700.92	130.00	681.51	75.10	679.26	88.70	665.67
5/13/2020	762.10		74.10	677.83	42.50	709.42	110.70	700.82	129.80	681.71	75.10	679.26	88.70	665.67
5/20/2020	762.20		74.10	677.83	42.60	709.32	110.50	701.02	130.10	681.41	75.10	679.26	88.70	665.67
5/27/2020	762.10	0.03	74.10	677.83	42.70	709.22	110.60	700.92	130.00	681.51	75.10	679.26	88.70	665.67
6/3/2020	761.90		74.10	677.83	42.70	709.22	110.60	700.92	130.00	681.51	75.00	679.36	88.70	665.67
6/10/2020	761.80		74.10	677.83	42.80	709.12	110.70	700.82	130.10	681.41	75.60	678.76	88.70	665.67
6/19/2020	760.10		74.10	677.83	42.90	709.02	110.70	700.82	130.00	681.51	75.60	678.76	88.70	665.67
6/24/2020	759.00	0.00	74.10	677.83	42.90	709.02	110.70	700.82	130.00	681.51	75.60	678.76	88.70	665.67
7/1/2020	757.30		74.10	677.83	42.90	709.02	110.70	700.82	130.00	681.51	75.60	678.76	88.70	665.67
7/8/2020	755.80		74.10	677.83	43.10	708.82	110.50	701.02	129.90	681.61	75.60	678.76	88.70	665.67
7/15/2020	754.40		74.10	677.83	43.30	708.62	111.40	700.12	129.90	681.61	75.60	678.76	88.70	665.67
7/22/2020	752.90		74.10	677.83	43.40	708.52	111.30	700.22	129.90	681.61	75.60	678.76	88.70	665.67
7/29/2020	751.40	0.00	74.10	677.83	43.50	708.42	111.40	700.12	130.00	681.51	75.60	678.76	88.70	665.67
8/5/2020	749.90		74.10	677.83	43.50	708.42	111.40	700.12	130.00	681.51	75.60	678.76	88.70	665.67
8/12/2020	749.60		74.10	677.83	43.60	708.32	111.30	700.22	130.30	681.21	75.60	678.76	88.70	665.67

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
8/19/2020	749.10		74.10	677.83	43.70	708.22	111.30	700.22	130.50	681.01	75.60	678.76	88.70	665.67
8/26/2020	747.90	0.00	74.10	677.83	43.80	708.12	111.30	700.22	130.70	680.81	75.60	678.76	88.70	665.67
9/2/2020	746.40		74.10	677.83	44.00	707.92	111.30	700.22	130.70	680.81	75.60	678.76	88.70	665.67
9/9/2020	745.70		74.10	677.83	44.00	707.92	111.20	700.32	130.70	680.81	75.60	678.76	88.70	665.67
9/16/2020	745.20		74.10	677.83	44.10	707.82	111.10	700.42	130.70	680.81	75.60	678.76	88.70	665.67
9/19/2020	747.80		74.10	677.83	44.10	707.82	111.10	700.42	130.70	680.81	75.60	678.76	88.70	665.67
9/23/2020	749.40		74.10	677.83	44.10	707.82	111.10	700.42	130.70	680.81	75.60	678.76	88.70	665.67
9/30/2020	743.50	0.00	74.10	677.83	44.10	707.82	111.10	700.42	130.70	680.81	75.60	678.76	88.70	665.67
10/7/2020	742.70		74.10	677.83	44.20	707.72	111.30	700.22	130.70	680.81	74.70	679.66	88.70	665.67
10/14/2020	741.60		74.10	677.83	44.30	707.62	111.40	700.12	130.80	680.71	74.60	679.76	88.70	665.67
10/21/2020	740.30		74.10	677.83	44.50	707.42	111.40	700.12	130.80	680.71	74.60	679.76	88.70	665.67
10/28/2020	739.90	0.00	74.10	677.83	44.60	707.32	112.50	699.02	130.80	680.71	74.50	679.86	88.70	665.67
11/4/2020	739.40		74.10	677.83	44.60	707.32	112.50	699.02	130.80	680.71	74.50	679.86	88.70	665.67
11/10/2020	739.20		74.20	677.73	44.70	707.22	112.50	699.02	130.60	680.91	74.50	679.86	88.70	665.67
11/18/2020	739.00		74.20	677.73	44.70	707.22	112.50	699.02	130.40	681.11	74.50	679.86	88.70	665.67
11/25/2020	738.80	0.54	74.00	677.93	44.80	707.12	112.50	699.02	130.20	681.31	74.50	679.86	88.70	665.67
12/2/2020	738.50		74.00	677.93	44.80	707.12	112.50	699.02	130.20	681.31	74.50	679.86	88.70	665.67
12/9/2020	738.20		74.10	677.83	44.90	707.02	112.50	699.02	130.30	681.21	74.50	679.86	88.70	665.67
12/16/2020	738.00		74.10	677.83	45.00	706.92	112.50	699.02	130.40	681.11	74.60	679.76	88.70	665.67
12/23/2020	738.20	1.72	74.00	677.93	45.20	706.72	112.50	699.02	130.50	681.01	74.60	679.76	88.70	665.67
1/6/2021	742.10		74.00	677.93	45.20	706.72	112.50	699.02	130.50	681.01	74.60	679.76	88.70	665.67
1/13/2021	742.10		74.10	677.83	45.40	706.52	112.10	699.42	130.50	681.01	74.60	679.76	88.70	665.67
1/20/2021	741.80		74.10	677.83	45.40	706.52	112.10	699.42	130.50	681.01	74.60	679.76	88.70	665.67
1/27/2021	741.70	1.36	74.20	677.73	45.50	706.42	112.00	699.52	130.50	681.01	74.60	679.76	88.70	665.67
2/3/2021	741.80		74.20	677.73	45.50	706.42	112.00	699.52	130.50	681.01	74.60	679.76	88.70	665.67
2/10/2021	741.60		74.00	677.93	45.60	706.32	112.00	699.52	130.50	681.01	74.60	679.76	88.70	665.67
2/17/2021	741.40		74.00	677.93	45.70	706.22	112.00	699.52	130.40	681.11	74.60	679.76	88.70	665.67
2/24/2021	741.00	0.14	74.20	677.73	45.80	706.12	112.00	699.52	130.40	681.11	74.70	679.66	88.70	665.67
3/3/2021	740.80		74.20	677.73	45.80	706.12	111.90	699.62	130.40	681.11	74.70	679.66	88.60	665.77
3/10/2021	740.60		74.10	677.83	46.00	705.92	111.50	700.02	130.00	681.51	74.60	679.76	88.60	665.77
3/17/2021	741.00		74.20	677.73	46.10	705.82	111.50	700.02	130.40	681.11	74.70	679.66	88.60	665.77
3/24/2021	740.90		74.00	677.93	46.10	705.82	111.20	700.32	130.10	681.41	74.50	679.86	88.60	665.77
3/31/2021	740.60	1.53	74.00	677.93	46.10	705.82	111.10	700.42	130.10	681.41	74.50	679.86	88.60	665.77
4/7/2021	740.80		74.00	677.93	46.10	705.82	111.10	700.42	130.10	681.41	74.50	679.86	88.60	665.77
4/14/2021	740.70		74.10	677.83	46.30	705.62	110.90	700.62	130.10	681.41	74.40	679.96	88.60	665.77
4/21/2021	741.30		74.20	677.73	46.40	705.52	110.70	700.82	130.10	681.41	74.60	679.76	88.60	665.77
4/28/2021	742.00	0.00	74.20	677.73	46.40	705.52	111.20	700.32	130.00	681.51	74.60	679.76	88.60	665.77
5/5/2021	741.90		74.30	677.63	46.60	705.32	111.70	699.82	130.70	680.81	74.70	679.66	88.70	665.67
5/15/2021	740.80		74.40	677.53	46.70	705.22	110.90	700.62	130.60	680.91	74.70	679.66	88.70	665.67
5/19/2021	740.40		74.00	677.93	46.70	705.22	111.50	700.02	130.60	680.91	74.60	679.76	88.70	665.67
5/26/2021	740.10	0.05	74.30	677.63	46.80	705.12	112.80	698.72	130.10	681.41	74.80	679.56	88.70	665.67
6/2/2021	739.60		74.20	677.73	46.90	705.02	111.30	700.22	129.80	681.71	74.80	679.56	88.70	665.67

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400	752.400	752.400	752.400	812.200	812.200	812.200	812.200	750.700	750.700	750.800	750.800
Top Ref. Elev. (ft) After 5/21/2012			751.930	751.930	751.920	751.920	811.520	811.520	811.510	811.510	754.355	754.355	754.370	754.370
Tip Elev. (ft)			676.930	676.930	654.420	654.420	700.020	700.020	674.510	674.510	677.200	677.200	664.700	664.700
Total Depth (ft)			75.0	75.0	97.5	97.5	111.5	111.5	137.0	137.0	73.5	73.5	86.1	86.1
Total Depth (ft) After 5/21/2012			75.0	75.0	97.5	97.5	111.5	111.5	137.0	137.0	77.2	77.2	89.7	89.7
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
6/9/2021	738.30		74.20	677.73	47.00	704.92	111.30	700.22	129.90	681.61	74.80	679.56	88.70	665.67
6/16/2021	737.20		74.20	677.73	47.10	704.82	111.70	699.82	130.00	681.51	74.80	679.56	88.70	665.67
6/23/2021	736.00		74.20	677.73	47.10	704.82	111.70	699.82	130.10	681.41	74.80	679.56	88.70	665.67
6/30/2021	736.40	0.00	74.20	677.73	47.10	704.82	111.70	699.82	130.10	681.41	74.80	679.56	88.70	665.67
7/7/2021	737.00		74.20	677.73	47.20	704.72	112.80	698.72	129.80	681.71	74.80	679.56	88.70	665.67
7/14/2021	737.40		74.30	677.63	47.30	704.62	112.80	698.72	130.00	681.51	74.80	679.56	88.70	665.67
7/21/2021	737.80		74.20	677.73	47.50	704.42	112.80	698.72	130.40	681.11	74.80	679.56	88.70	665.67
7/28/2021	736.40	0.05	74.20	677.73	47.60	704.32	112.80	698.72	130.50	681.01	74.30	680.06	88.70	665.67
8/4/2021	736.30		74.20	677.73	47.60	704.32	112.80	698.72	130.50	681.01	74.20	680.16	88.70	665.67
8/11/2021	735.90		74.20	677.73	47.60	704.32	112.80	698.72	130.40	681.11	74.20	680.16	88.70	665.67
8/18/2021	735.90		74.20	677.73	44.70	707.22	112.80	698.72	130.30	681.21	74.20	680.16	88.70	665.67
8/25/2021	735.70	0.00	74.20	677.73	44.80	707.12	112.80	698.72	130.50	681.01	74.20	680.16	88.70	665.67
9/1/2021	735.60		74.20	677.73	47.80	704.12	112.80	698.72	130.00	681.51	74.20	680.16	88.60	665.77
9/8/2021	736.00		74.20	677.73	47.80	704.12	112.80	698.72	130.10	681.41	74.30	680.06	88.50	665.87
9/15/2021	737.00		74.20	677.73	48.00	703.92	112.80	698.72	130.00	681.51	74.30	680.06	88.40	665.97
9/22/2021	737.50		74.20	677.73	48.10	703.82	112.80	698.72	129.80	681.71	74.30	680.06	88.30	666.07
9/29/2021	738.00	0.00	74.20	677.73	48.20	703.72	112.80	698.72	130.10	681.41	74.10	680.26	88.20	666.17
10/6/2021	738.20		74.20	677.73	48.20	703.72	112.80	698.72	131.50	680.01	74.30	680.06	87.80	666.57
10/13/2021	738.70		74.20	677.73	48.30	703.62	112.80	698.72	131.80	679.71	74.40	679.96	87.70	666.67
10/22/2021	738.80		74.20	677.73	48.40	703.52	112.80	698.72	131.60	679.91	74.80	679.56	87.60	666.77
10/27/2021	739.00	0.46	74.20	677.73	48.40	703.52	112.80	698.72	131.50	680.01	74.80	679.56	87.40	666.97
11/3/2021	739.60		74.20	677.73	48.50	703.42	112.80	698.72	130.90	680.61	74.50	679.86	87.30	667.07
11/10/2021	740.20		74.20	677.73	48.60	703.32	112.80	698.72	130.90	680.61	74.80	679.56	87.30	667.07
11/17/2021	740.20		74.30	677.63	48.70	703.22	112.80	698.72	130.90	680.61	74.40	679.96	87.30	667.07
11/24/2021	739.90	0.00	74.30	677.63	48.80	703.12	112.80	698.72	130.80	680.71	74.50	679.86	87.30	667.07
12/1/2021	739.50		74.30	677.63	48.80	703.12	112.80	698.72	129.80	681.71	74.80	679.56	87.30	667.07
12/8/2021	739.40		74.40	677.53	48.90	703.02	112.80	698.72	129.80	681.71	74.80	679.56	87.30	667.07
12/15/2021	740.00		74.20	677.73	48.90	703.02	112.80	698.72	130.10	681.41	74.80	679.56	87.30	667.07
12/22/2021	740.00		74.20	677.73	48.90	703.02	112.80	698.72	129.80	681.71	74.80	679.56	87.30	667.07
12/29/2021	743.00	7.24	74.20	677.73	49.00	702.92	112.80	698.72	129.80	681.71	74.80	679.56	87.30	667.07
1/6/2022	744.20		74.30	677.63	49.30	702.62	112.80	698.72	129.80	681.71	74.80	679.56	87.30	667.07
1/12/2022	744.20		74.20	677.73	49.30	702.62	112.80	698.72	130.00	681.51	74.80	679.56	87.30	667.07
1/19/2022	744.10		74.20	677.73	49.40	702.52	112.80	698.72	130.80	680.71	74.80	679.56	87.30	667.07
1/26/2022	744.00	0.05	74.20	677.73	49.40	702.52	112.80	698.72	129.80	681.71	74.80	679.56	87.30	667.07
2/2/2022	743.80		74.30	677.63	49.40	702.52	112.80	698.72	130.00	681.51	74.90	679.46	87.30	667.07
2/9/2022	743.70		74.30	677.63	49.50	702.42	112.80	698.72	130.60	680.91	74.80	679.56	87.30	667.07
2/16/2022	743.60		74.30	677.63	49.60	702.32	112.80	698.72	129.90	681.61	74.80	679.56	87.30	667.07
2/28/2022	743.40	0.04	74.30	677.63	49.60	702.32	112.80	698.72	129.90	681.61	74.80	679.56	87.30	667.07
3/2/2022	743.30		74.30	677.63	49.60	702.32	112.80	698.72	129.90	681.61	74.80	679.56	87.30	667.07
3/9/2022	743.10		74.30	677.63	49.60	702.32	112.80	698.72	129.90	681.61	74.80	679.56	87.30	667.07
3/16/2022	743.00		74.30	677.63	49.60	702.32	112.80	698.72	129.90	681.61	74.80	679.56	87.30	667.07
3/23/2022	742.80		74.30	677.63	49.60	702.32	112.80	698.72	130.00	681.51	74.40	679.96	87.30	667.07

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U	R-5L	R-6U	R-6L	R-7U	R-7L						
3/30/2022	742.10	1.28	74.30	677.63	49.60	702.32	112.80	698.72	130.40	681.11	74.30	680.06	87.30	667.07
4/6/2022	741.90		74.30	677.63	49.70	702.22	112.80	698.72	130.50	681.01	74.80	679.56	87.30	667.07
4/13/2022	741.60		74.30	677.63	50.20	701.72	112.80	698.72	130.60	680.91	74.80	679.56	87.30	667.07
4/20/2022	741.10		74.30	677.63	50.30	701.62	112.80	698.72	130.70	680.81	74.80	679.56	87.80	666.57
4/27/2022	740.20	0.25	74.30	677.63	50.30	701.62	112.80	698.72	130.80	680.71	74.80	679.56	87.80	666.57
5/4/2022	739.30		74.30	677.63	50.30	701.62	112.80	698.72	130.20	681.31	74.80	679.56	87.80	666.57
5/11/2022	738.10		74.30	677.63	50.30	701.62	112.80	698.72	130.20	681.31	74.80	679.56	87.50	666.87
5/18/2022	737.90		74.30	677.63	50.40	701.52	112.80	698.72	130.30	681.21	74.80	679.56	87.80	666.57
5/25/2022	737.00	0.00	74.30	677.63	50.60	701.32	112.80	698.72	130.40	681.11	74.80	679.56	87.80	666.57
6/1/2022	737.00		74.30	677.63	50.60	701.32	112.80	698.72	130.30	681.21	74.80	679.56	87.80	666.57
6/8/2022	738.00		74.30	677.63	50.70	701.22	112.80	698.72	130.30	681.21	74.80	679.56	87.80	666.57
6/15/2022	738.60		74.30	677.63	50.80	701.12	112.80	698.72	130.30	681.21	74.80	679.56	87.80	666.57
6/22/2022	741.70		74.30	677.63	50.80	701.12	112.80	698.72	130.30	681.21	74.80	679.56	87.80	666.57
6/29/2022	742.80	0.00	74.30	677.63	50.90	701.02	112.80	698.72	130.30	681.21	74.80	679.56	87.80	666.57
7/6/2022	744.60		74.30	677.63	50.90	701.02	112.80	698.72	130.30	681.21	74.80	679.56	87.80	666.57
7/13/2022	745.50		74.30	677.63	51.00	700.92	112.80	698.72	130.20	681.31	74.80	679.56	87.60	666.77
7/20/2022	745.50		74.30	677.63	51.20	700.72	112.80	698.72	130.20	681.31	74.80	679.56	87.80	666.57
7/27/2022	744.50	0.03	74.30	677.63	51.30	700.62	112.80	698.72	130.20	681.31	74.80	679.56	87.80	666.57
8/3/2022	743.00		74.30	677.63	51.30	700.62	112.80	698.72	130.20	681.31	74.80	679.56	87.10	667.27
8/10/2022	742.10		74.30	677.63	51.30	700.62	112.80	698.72	130.30	681.21	74.80	679.56	86.60	667.77
8/17/2022	744.60		74.30	677.63	51.40	700.52	112.80	698.72	130.30	681.21	74.80	679.56	86.50	667.87
8/24/2022	746.60		74.30	677.63	51.40	700.52	112.80	698.72	130.30	681.21	74.80	679.56	86.60	667.77
8/31/2022	748.70	0.03	74.30	677.63	51.40	700.52	112.80	698.72	130.30	681.21	74.80	679.56	86.60	667.77
9/7/2022	749.60		74.30	677.63	51.60	700.32	112.80	698.72	135.30	676.21	74.80	679.56	86.60	667.77
9/14/2022	749.00		74.30	677.63	51.60	700.32	112.80	698.72	135.30	676.21	74.80	679.56	86.60	667.77
9/21/2022	747.60		74.30	677.63	51.80	700.12	112.80	698.72	130.30	681.21	74.80	679.56	86.60	667.77
9/28/2022	746.00	0.29	74.30	677.63	51.90	700.02	112.80	698.72	134.80	676.71	74.80	679.56	86.60	667.77
10/5/2022	744.90		74.30	677.63	51.90	700.02	112.80	698.72	134.80	676.71	73.80	680.56	84.60	669.77
10/12/2022	743.90		74.30	677.63	52.00	699.92	112.80	698.72	135.50	676.01	73.70	680.66	86.60	667.77
10/19/2022	743.70		74.90	677.03	52.10	699.82	112.80	698.72	135.90	675.61	74.50	679.86	86.60	667.77
10/26/2022	743.50	0.44	74.90	677.03	52.10	699.82	112.80	698.72	135.40	676.11	74.50	679.86	86.60	667.77
11/2/2022	743.40		74.90	677.03	52.30	699.62	112.80	698.72	135.40	676.11	74.50	679.86	86.60	667.77
11/9/2022	744.40		74.90	677.03	52.30	699.62	112.80	698.72	135.40	676.11	74.60	679.76	86.60	667.77
11/16/2022	744.30		74.90	677.03	52.30	699.62	112.80	698.72	135.50	676.01	74.60	679.76	86.60	667.77
11/23/2022	744.00		74.90	677.03	52.30	699.62	112.80	698.72	135.50	676.01	74.60	679.76	86.60	667.77
11/30/2022	743.70	1.24	74.90	677.03	52.30	699.62	112.80	698.72	135.40	676.11	74.60	679.76	86.60	667.77
12/1/2022	739.50		74.30	677.63	48.80	703.12	112.80	698.72	129.80	681.71	74.80	679.56	87.30	667.07
12/8/2022	739.40		74.40	677.53	48.90	703.02	112.80	698.72	129.90	681.61	74.80	679.56	87.30	667.07
12/15/2022	740.00		74.20	677.73	48.90	703.02	112.80	698.72	130.10	681.41	74.80	679.56	87.30	667.07
12/22/2022	740.00		74.20	677.73	48.90	703.02	112.80	698.72	129.80	681.71	74.80	679.56	87.30	667.07
12/29/2022	742.00	2.62	74.20	677.73	49.00	702.92	112.80	698.72	129.90	681.61	74.80	679.56	87.30	667.07
1/4/2023	745.60		74.90	677.03	52.80	699.12	112.80	698.72	133.30	678.21	74.80	679.56	86.60	667.77

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U		R-5L		R-6U		R-6L		R-7U		R-7L	
1/11/2023	748.90		74.90	677.03	52.80	699.12	112.80	698.72	133.50	678.01	74.70	679.66	86.60	667.77
1/18/2023	758.90		74.90	677.03	52.80	699.12	112.80	698.72	130.90	680.61	74.80	679.56	86.60	667.77
1/25/2023	760.90	6.31	74.90	677.03	52.80	699.12	112.80	698.72	129.90	681.61	74.80	679.56	86.60	667.77
2/1/2023	761.50		74.90	677.03	53.00	698.92	112.80	698.72	132.90	678.61	74.80	679.56	86.60	667.77
2/8/2023	761.80		74.90	677.03	53.20	698.72	112.80	698.72	132.90	678.61	74.80	679.56	86.70	667.67
2/15/2023	762.00		74.90	677.03	53.20	698.72	112.80	698.72	136.20	675.31	74.80	679.56	86.70	667.67
2/22/2023	762.20	2.95	74.90	677.03	53.20	698.72	112.80	698.72	132.90	678.61	74.80	679.56	86.70	667.67
3/1/2023	763.60		74.90	677.03	53.40	698.52	112.80	698.72	130.60	680.91	74.80	679.56	86.70	667.67
3/8/2023	764.10		74.90	677.03	53.40	698.52	112.80	698.72	130.60	680.91	74.80	679.56	86.70	667.67
3/15/2023	764.30		74.90	677.03	25.10	726.82	112.80	698.72	130.60	680.91	74.90	679.46	86.60	667.77
3/22/2023	772.80		74.90	677.03	25.10	726.82	112.80	698.72	130.60	680.91	74.90	679.46	86.60	667.77
3/29/2023	775.60	6.45	74.90	677.03	25.10	726.82	112.80	698.72	130.60	680.91	74.90	679.46	86.60	667.77
4/5/2023	777.40		74.90	677.03	34.00	717.92	112.80	698.72	130.20	681.31	74.90	679.46	86.70	667.67
4/12/2023	778.90		74.90	677.03	35.30	716.62	112.80	698.72	130.30	681.21	74.90	679.46	86.70	667.67
4/19/2023	779.50		74.90	677.03	36.40	715.52	112.80	698.72	130.30	681.21	75.00	679.36	86.70	667.67
4/26/2023	779.80	0.10	74.90	677.03	37.10	714.82	112.80	698.72	130.30	681.21	75.00	679.36	86.70	667.67
5/3/2023	779.80		74.90	677.03	37.10	714.82	110.70	700.82	130.30	681.21	75.00	679.36	86.70	667.67
5/10/2023	779.90		74.90	677.03	37.10	714.82	109.80	701.72	130.30	681.21	75.00	679.36	86.70	667.67
5/17/2023	779.70		74.90	677.03	37.10	714.82	109.80	701.72	130.30	681.21	75.10	679.26	86.70	667.67
5/24/2023	779.60	0.79	74.90	677.03	37.10	714.82	109.80	701.72	130.30	681.21	75.10	679.26	86.70	667.67
5/31/2023	779.20		74.90	677.03	37.10	714.82	109.80	701.72	130.30	681.21	75.10	679.26	86.70	667.67
6/7/2023	779.20		74.90	677.03	37.10	714.82	109.80	701.72	130.20	681.31	75.10	679.26	86.70	667.67
6/14/2023	778.90		74.90	677.03	37.10	714.82	109.80	701.72	130.20	681.31	75.10	679.26	86.70	667.67
6/21/2023	778.50		74.90	677.03	37.20	714.72	109.80	701.72	130.20	681.31	75.10	679.26	86.70	667.67
6/28/2023	777.90	0.09	74.90	677.03	37.20	714.72	109.80	701.72	130.20	681.31	75.10	679.26	86.70	667.67
7/5/2023	777.40		74.90	677.03	37.20	714.72	109.80	701.72	130.20	681.31	75.10	679.26	86.70	667.67
7/12/2023	776.70		74.90	677.03	37.20	714.72	108.70	702.82	130.50	681.01	75.10	679.26	86.80	667.57
7/19/2023	776.00		74.90	677.03	37.20	714.72	108.70	702.82	130.50	681.01	75.10	679.26	86.80	667.57
7/26/2023	775.00	0.00	74.90	677.03	37.20	714.72	108.70	702.82	130.50	681.01	75.10	679.26	86.80	667.57
8/3/2023	774.40		74.90	677.03	37.30	714.62	105.30	706.22	130.50	681.01	75.10	679.26	86.70	667.67
8/9/2023	774.00		74.90	677.03	37.30	714.62	105.30	706.22	130.50	681.01	75.10	679.26	86.70	667.67
8/16/2023	773.50		74.90	677.03	37.30	714.62	105.30	706.22	130.50	681.01	75.10	679.26	86.70	667.67
8/23/2023	773.50		74.90	677.03	37.30	714.62	105.30	706.22	130.50	681.01	75.10	679.26	86.70	667.67
8/31/2023	773.30	2.00	74.90	677.03	37.30	714.62	105.30	706.22	130.50	681.01	75.10	679.26	86.70	667.67
9/6/2023	773.20		74.90	677.03	37.30	714.62	102.00	709.52	130.50	681.01	75.10	679.26	86.70	667.67
9/13/2023	772.60		74.90	677.03	37.30	714.62	102.00	709.52	130.50	681.01	75.10	679.26	86.70	667.67
9/20/2023	772.10		74.90	677.03	38.10	713.82	102.00	709.52	130.50	681.01	75.10	679.26	86.70	667.67
9/27/2023	771.40	0.04	74.90	677.03	38.10	713.82	102.00	709.52	130.50	681.01	75.10	679.26	86.70	667.67
10/5/2023	770.40		74.90	677.03	38.30	713.62	101.50	710.02	130.50	681.01	75.10	679.26	86.70	667.67
10/12/2023	769.50		74.90	677.03	38.30	713.62	101.70	709.82	130.50	681.01	75.10	679.26	86.70	667.67
10/18/2023	768.30		74.90	677.03	38.30	713.62	101.80	709.72	130.50	681.01	75.10	679.26	86.70	667.67
10/25/2023	765.20	0.18	74.90	677.03	38.30	713.62	101.80	709.72	130.50	681.01	75.10	679.26	86.70	667.67

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U		R-5L		R-6U		R-6L		R-7U		R-7L	
11/2/2023	762.70		74.90	677.03	38.30	713.62	101.80	709.72	130.50	681.01	75.10	679.26	86.70	667.67
11/8/2023	762.50		74.90	677.03	38.30	713.62	102.00	709.52	130.50	681.01	75.10	679.26	86.70	667.67
11/16/2023	762.40		74.90	677.03	38.30	713.62	102.00	709.52	130.50	681.01	75.10	679.26	86.70	667.67
11/21/2023	762.10		74.90	677.03	38.30	713.62	102.70	708.82	131.00	680.51	75.10	679.26	86.70	667.67
11/28/2023	761.60	0.52	74.90	677.03	38.30	713.62	102.70	708.82	131.00	680.51	75.10	679.26	86.70	667.67
12/7/2023	761.00		74.90	677.03	38.30	713.62	102.70	708.82	131.00	680.51	75.10	679.26	86.70	667.67
12/12/2023	760.70		74.90	677.03	38.30	713.62	102.70	708.82	131.00	680.51	75.10	679.26	86.70	667.67
12/19/2023	760.20	1.09	74.90	677.03	38.30	713.62	102.70	708.82	131.00	680.51	75.10	679.26	86.70	667.67
1/5/2024	759.50		74.90	677.03	38.30	713.62	104.10	707.42	133.80	677.71	75.10	679.26	86.70	667.67
1/11/2024	759.30		74.90	677.03	38.30	713.62	104.10	707.42	133.80	677.71	75.10	679.26	86.70	667.67
1/17/2024	758.90		74.90	677.03	39.50	712.42	104.10	707.42	133.80	677.71	75.10	679.26	86.70	667.67
1/25/2024	758.50	1.40	74.90	677.03	39.50	712.42	104.10	707.42	133.80	677.71	75.10	679.26	86.70	667.67
2/1/2024	758.10		74.90	677.03	39.70	712.22	104.10	707.42	133.80	677.71	75.10	679.26	86.70	667.67
2/7/2024	761.00		74.90	677.03	39.70	712.22	103.20	708.32	133.80	677.71	75.10	679.26	86.70	667.67
2/14/2024	761.80		74.90	677.03	39.70	712.22	103.20	708.32	133.80	677.71	75.10	679.26	86.70	667.67
2/22/2024	762.60		74.90	677.03	39.70	712.22	104.80	706.72	134.20	677.31	75.10	679.26	86.70	667.67
2/28/2024	761.80	8.20	74.90	677.03	39.70	712.22	104.10	707.42	134.20	677.31	75.10	679.26	86.70	667.67
3/6/2024	762.50		74.90	677.03	39.70	712.22	104.10	707.42	133.80	677.71	75.10	679.26	86.70	667.67
3/15/2024	762.60		74.90	677.03	39.70	712.22	104.10	707.42	133.80	677.71	75.10	679.26	86.70	667.67
3/20/2024	762.40		74.90	677.03	39.70	712.22	104.10	707.42	133.80	677.71	75.10	679.26	86.70	667.67
3/26/2024	764.00	3.28	74.90	677.03	39.70	712.22	103.30	708.22	133.80	677.71	75.10	679.26	86.70	667.67
4/3/2024	766.50		74.90	677.03	39.70	712.22	103.30	708.22	133.80	677.71	75.10	679.26	86.70	667.67
4/11/2024	768.10		74.90	677.03	34.90	717.02	103.00	708.52	133.80	677.71	75.10	679.26	86.70	667.67
4/17/2024	769.00		74.90	677.03	34.90	717.02	102.40	709.12	133.80	677.71	75.10	679.26	86.70	667.67
4/24/2024	769.60		74.90	677.03	34.90	717.02	102.40	709.12	133.80	677.71	75.10	679.26	86.70	667.67
5/1/2024	770.10		74.90	677.03	36.90	715.02	102.40	709.12	133.80	677.71	75.10	679.26	86.70	667.67
5/8/2024	770.30		74.90	677.03	37.20	714.72	100.90	710.62	133.80	677.71	75.10	679.26	86.70	667.67
5/15/2024	770.60		74.90	677.03	37.30	714.62	100.50	711.02	133.80	677.71	75.10	679.26	86.70	667.67
5/22/2024	770.50		74.90	677.03	37.30	714.62	100.00	711.52	133.80	677.71	75.10	679.26	86.70	667.67
5/29/2024	770.30	0.28	74.90	677.03	37.50	714.42	100.00	711.52	133.80	677.71	75.10	679.26	86.70	667.67
6/5/2024	770.30		74.90	677.03	37.50	714.42	98.30	713.22	133.80	677.71	75.10	679.26	86.70	667.67
6/12/2024	770.20		74.90	677.03	37.50	714.42	98.30	713.22	133.80	677.71	75.10	679.26	86.70	667.67
6/19/2024	770.10		74.90	677.03	37.70	714.22	98.30	713.22	133.80	677.71	75.10	679.26	86.70	667.67
6/26/2024	769.80	0.00	74.90	677.03	37.70	714.22	98.30	713.22	133.80	677.71	75.10	679.26	86.70	667.67
7/3/2024	769.00		74.90	677.03	37.80	714.12	97.50	714.02	132.60	678.91	75.10	679.26	86.70	667.67
7/11/2024	768.20		74.90	677.03	37.90	714.02	97.50	714.02	132.60	678.91	75.10	679.26	86.70	667.67
7/16/2024	767.50		74.90	677.03	37.90	714.02	97.50	714.02	132.60	678.91	75.10	679.26	86.70	667.67
7/24/2024	766.60		74.90	677.03	37.90	714.02	97.50	714.02	132.60	678.91	75.10	679.26	86.70	667.67
7/31/2024	765.70	0.00	74.90	677.03	38.10	713.82	97.50	714.02	132.60	678.91	75.10	679.26	86.70	667.67
8/7/2024	764.80		75.10	676.83	38.10	713.82	97.50	714.02	132.60	678.91	75.10	679.26	86.70	667.67
8/15/2024	763.60		75.10	676.83	38.30	713.62	97.50	714.02	132.60	678.91	75.10	679.26	86.70	667.67
8/21/2024	762.70		75.10	676.83	38.30	713.62	97.50	714.02	133.60	677.91	75.10	679.26	86.70	667.67

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			R-5 Upper		R-5 Lower		R-6 Upper		R-6 Lower		R-7 Upper		R-7 Lower	
Top Ref. Elev. (ft)			752.400		752.400		812.200		812.200		750.700		750.800	
Top Ref. Elev. (ft) After 5/21/2012			751.930		751.920		811.520		811.510		754.355		754.370	
Tip Elev. (ft)			676.930		654.420		700.020		674.510		677.200		664.700	
Total Depth (ft)			75.0		97.5		111.5		137.0		73.5		86.1	
Total Depth (ft) After 5/21/2012			75.0		97.5		111.5		137.0		77.2		89.7	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			R-5U		R-5L		R-6U		R-6L		R-7U		R-7L	
8/29/2024	761.40	0.00	75.10	676.83	38.50	713.42	97.50	714.02	133.60	677.91	75.10	679.26	86.70	667.67
9/4/2024	760.60		75.10	676.83	38.60	713.32	97.50	714.02	134.10	677.41	75.10	679.26	86.70	667.67
9/18/2024	759.50		75.10	676.83	38.60	713.32	97.50	714.02	134.10	677.41	75.10	679.26	86.70	667.67
9/25/2024	759.20	0.00	75.10	676.83	38.60	713.32	97.50	714.02	134.10	677.41	75.30	679.06	86.70	667.67
10/2/2024	758.90		75.10	676.83	38.60	713.32	97.50	714.02	134.10	677.41	75.10	679.26	86.70	667.67
10/10/2024	758.60		75.10	676.83	38.90	713.02	98.00	713.52	134.10	677.41	75.10	679.26	86.70	667.67
10/16/2024	758.40		75.10	676.83	39.00	712.92	98.00	713.52	134.10	677.41	75.20	679.16	86.70	667.67
10/25/2024	758.20		75.10	676.83	39.00	712.92	98.00	713.52	134.10	677.41	75.30	679.06	86.70	667.67
10/30/2024	758.10	0.00	75.10	676.83	39.20	712.72	98.00	713.52	134.10	677.41	75.20	679.16	86.70	667.67
11/5/2024	757.90		75.10	676.83	39.10	712.82	98.00	713.52	134.10	677.41	75.10	679.26	86.70	667.67
11/13/2024	757.70		75.10	676.83	39.30	712.62	98.10	713.42	134.10	677.41	75.30	679.06	86.70	667.67
11/20/2024	757.60		75.10	676.83	39.40	712.52	98.30	713.22	134.10	677.41	75.30	679.06	86.70	667.67
11/27/2024	757.50	0.05	74.48	677.45	39.32	712.60	97.55	713.97	133.43	678.08	74.90	679.46	86.20	668.17
12/2/2024	757.40		75.10	676.83	39.60	712.32	98.30	713.22	134.00	677.51	75.30	679.06	86.70	667.67
12/11/2024	757.20		75.10	676.83	39.60	712.32	98.30	713.22	133.80	677.71	75.30	679.06	86.70	667.67
12/18/2024	757.10		75.10	676.83	39.70	712.22	98.30	713.22	133.70	677.81	75.30	679.06	86.70	667.67
12/26/2024	757.10	0.00	75.10	676.83	39.70	712.22	98.30	713.22	133.70	677.81	75.30	679.06	86.70	667.67
1/23/2025	756.60	1.08	74.60	677.33	39.90	712.02	97.90	713.62	133.10	678.41	74.80	679.56	86.60	667.77
2/25/2025	757.80	3.39	74.50	677.43	40.30	711.62	97.50	714.02	133.70	677.81	75.00	679.36	86.80	667.57
3/26/2025	759.00	2.40	74.40	677.53	40.60	711.32	97.50	714.02	133.30	678.21	74.80	679.56	86.30	668.07
4/14/2025	759.00		74.30	677.63	40.80	711.12	97.50	714.02	132.80	678.71	75.00	679.36	86.30	668.07
4/24/2025	759.00	0.38	74.50	677.43	40.95	710.97	97.70	713.82	132.80	678.71	75.30	679.06	86.30	668.07
5/22/2025	758.90	0.12	74.50	677.43	41.30	710.62	97.80	713.72	138.80	672.71	73.70	680.66	86.40	667.97
6/18/2025	758.00	0.07	74.60	677.33	41.50	710.42	97.90	713.62	132.60	678.91	75.10	679.26	86.30	668.07
7/23/2025	755.30	0.00	74.50	677.43	41.90	710.02	98.90	712.62	132.50	679.01	75.50	678.86	86.40	667.97
8/21/2025	752.60	0.00	74.40	677.53	42.20	709.72	98.90	712.62	132.80	678.71	75.40	678.96	86.40	667.97
9/23/2025	748.80	0.09	74.40	677.53	42.50	709.42	99.30	712.22	133.00	678.51	75.20	679.16	86.40	667.97
10/23/2025	746.90	1.26	74.60	677.33	42.90	709.02	100.90	710.62	132.10	679.41	75.30	679.06	86.40	667.97
11/19/2025	746.90	5.18	74.50	677.43	43.10	708.82	100.70	710.82	132.60	678.91	75.20	679.16	86.40	667.97
12/16/2025	746.80	1.87	74.50	677.43	43.60	708.32	101.30	710.22	132.80	678.71	74.50	679.86	86.40	667.97

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
1/10/2007	749.70		103.20	708.30	19.40	678.10						
1/19/2007	749.40		103.30	708.20	19.40	678.10						
1/29/2007	749.60		103.30	708.20	19.40	678.10						
2/7/2007	750.00		103.30	708.20	19.40	678.10						
2/16/2007	750.20		103.70	707.80	19.40	678.10						
2/26/2007	750.60		103.90	707.60	19.40	678.10						
3/6/2007	751.70		104.20	707.30	19.40	678.10						
3/17/2007	755.10		104.40	707.10	19.40	678.10						
3/25/2007	756.30		104.40	707.10	19.40	678.10						
4/6/2007	760.00		104.40	707.10	19.40	678.10						
4/16/2007	762.90		104.40	707.10	19.40	678.10						
4/27/2007	767.10		104.50	707.00	19.40	678.10						
5/9/2007	766.80		104.40	707.10	19.40	678.10						
5/19/2007	764.80		104.50	707.00	19.40	678.10						
5/29/2007	762.80		104.30	707.20	19.40	678.10						
6/8/2007	761.20		104.40	707.10	19.40	678.10						
6/18/2007	759.90		104.20	707.30	19.40	678.10						
6/28/2007	758.10		104.10	707.40	19.40	678.10						
7/10/2007	756.70		104.10	707.40	19.40	678.10						
7/19/2007	755.80		104.20	707.30	19.40	678.10						
7/30/2007	754.90		104.30	707.20	19.40	678.10						
8/11/2007	754.40		104.30	707.20	19.40	678.10						
8/22/2007	753.80		104.50	707.00	19.40	678.10						
8/30/2007	753.30		104.60	706.90	19.40	678.10						
9/7/2007	753.20		104.60	706.90	19.40	678.10						
9/18/2007	753.00		104.60	706.90	19.40	678.10						
9/27/2007	753.60		104.50	707.00	19.40	678.10						
10/8/2007	754.90		104.60	706.90	19.40	678.10						
10/17/2007	756.20		104.80	706.70	19.40	678.10						
10/30/2007	757.80		105.10	706.40	19.40	678.10						
11/9/2007	759.60		105.10	706.40	19.40	678.10						
11/19/2007	763.60		105.10	706.40	19.40	678.10						
11/28/2007	766.50		105.20	706.30	19.40	678.10						
12/8/2007	768.70		105.20	706.30	19.40	678.10						
12/18/2007	768.50		105.20	706.30	19.40	678.10						
12/28/2007	769.30		105.20	706.30	19.40	678.10						
1/9/2008	770.50		105.00	706.50	19.40	678.10						
1/19/2008	770.30		104.80	706.70	19.40	678.10						
1/29/2008	772.70		104.80	706.70	19.40	678.10						
2/9/2008	774.10		104.30	707.20	19.40	678.10						
2/19/2008	774.40		103.80	707.70	19.40	678.10						
2/27/2008	775.00		103.70	707.80	19.40	678.10						

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
3/7/2008	775.00		103.50	708.00	19.40	678.10						
3/18/2008	775.00		103.40	708.10	19.40	678.10						
3/29/2008	774.90		103.30	708.20	19.40	678.10						
4/10/2008	775.00		103.10	708.40	19.40	678.10						
4/20/2008	774.80		102.80	708.70	19.40	678.10						
5/5/2008	774.65		102.60	708.90	19.40	678.10						
5/13/2008	773.90		102.50	709.00	19.40	678.10						
5/21/2008	772.85		102.40	709.10	19.40	678.10						
5/31/2008	772.10		102.30	709.20	19.40	678.10						
6/9/2008	771.20		102.20	709.30	19.40	678.10						
6/18/2008	770.50		102.20	709.30	19.40	678.10						
6/26/2008	769.60		102.10	709.40	19.40	678.10						
7/8/2008	768.10		102.10	709.40	19.40	678.10						
7/19/2008	766.60		102.40	709.10	19.40	678.10						
7/29/2008	765.50	0.00	102.60	708.90	19.40	678.10						
8/4/2008	764.60	0.00	102.60	708.90	19.40	678.10						
8/9/2008	764.25	0.00	102.60	708.90	19.40	678.10						
8/19/2008	763.20	0.00	102.60	708.90	19.40	678.10						
8/28/2008	762.25	0.00	102.60	708.90	19.40	678.10						
9/6/2008	761.00	0.00	102.80	708.70	19.40	678.10						
9/17/2008	760.10	0.00	103.10	708.40	19.40	678.10						
9/29/2008	759.20	0.00	103.40	708.10	19.40	678.10						
10/8/2008	759.00	0.00	103.50	708.00	19.40	678.10						
10/18/2008	758.90	0.00	103.50	708.00	19.40	678.10						
10/29/2008	761.30	0.00	103.70	707.80	19.40	678.10						
11/8/2008	764.30	0.00	103.70	707.80	19.40	678.10						
11/17/2008	766.90	0.00	103.80	707.70	19.40	678.10						
11/25/2008	769.90	1.71	103.90	707.60	19.40	678.10						
12/4/2008	773.90		103.80	707.70	19.40	678.10						
12/13/2008	777.30		103.80	707.70	19.40	678.10						
12/21/2008	779.10		103.80	707.70	19.40	678.10						
12/30/2008	779.40	3.99	103.80	707.70	19.40	678.10						
1/8/2009	779.30		103.40	708.10	19.40	678.10						
1/19/2009	778.50		103.00	708.50	19.40	678.10						
1/29/2009	778.30	0.38	102.50	709.00	19.40	678.10						
2/12/2009	779.80		101.70	709.80	19.40	678.10						
2/19/2009	781.30		101.50	710.00	19.40	678.10						
2/27/2009	782.20	4.33	101.40	710.10	19.40	678.10						
3/10/2009	782.70		101.40	710.10	19.40	678.10						
3/20/2009	782.40		101.50	710.00	19.40	678.10						
3/25/2009	782.20	0.43	101.40	710.10	19.40	678.10						
4/4/2009	785.30		101.40	710.10	19.40	678.10						

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
4/13/2009	788.50		100.00	711.50	19.40	678.10						
4/21/2009	790.50		98.30	713.20	19.40	678.10						
4/26/2009	791.20	0.00	97.80	713.70	19.40	678.10						
5/4/2009	791.30		95.80	715.70	19.40	678.10						
5/13/2009	790.60		94.40	717.10	19.40	678.10						
5/21/2009	789.90		93.90	717.60	19.40	678.10						
5/30/2009	789.30	0.00	93.10	718.40	19.40	678.10						
6/8/2009	788.70		93.10	718.40	19.40	678.10						
6/17/2009	788.20		93.20	718.30	19.40	678.10						
6/27/2009	787.60	0.00	95.20	716.30	19.40	678.10						
7/7/2009	786.80		94.90	716.60	19.40	678.10						
7/15/2009	786.10		94.60	716.90	19.40	678.10						
7/22/2009	785.50		94.40	717.10	19.40	678.10						
7/30/2009	784.70	0.00	94.10	717.40	19.40	678.10						
8/8/2009	783.90		94.40	717.10	19.40	678.10						
8/15/2009	783.30		94.50	717.00	19.40	678.10						
8/26/2009	782.30	0.00	94.80	716.70	19.40	678.10						
9/5/2009	781.50		95.00	716.50	19.40	678.10						
9/12/2009	780.80		95.10	716.40	19.40	678.10						
9/19/2009	780.20		95.30	716.20	19.40	678.10						
9/28/2009	779.50	0.00	95.50	716.00	19.40	678.10						
10/8/2009	778.50		95.70	715.80	19.40	678.10						
10/19/2009	777.80		96.00	715.50	19.40	678.10						
10/30/2009	776.80	0.24	96.40	715.10	19.40	678.10						
11/9/2009	776.10		96.50	715.00	19.40	678.10						
11/20/2009	775.40		96.90	714.60	19.40	678.10						
11/28/2009	774.90	0.00	97.20	714.30	19.40	678.10						
12/9/2009	774.60		97.60	713.90	19.40	678.10						
12/18/2009	774.60		97.80	713.70	19.40	678.10						
12/29/2009	774.30	3.56	98.20	713.30	19.40	678.10						
1/9/2010	773.90		98.20	713.30	19.40	678.10						
1/17/2010	773.60		98.40	713.10	19.40	678.10						
1/28/2010	779.90	7.84	98.40	713.10	19.40	678.10						
2/4/2010	780.15		98.00	713.50	19.40	678.10						
2/12/2010	783.40		97.90	713.60	19.40	678.10						
2/19/2010	784.00		97.70	713.80	19.40	678.10						
2/26/2010	784.45	2.69	97.60	713.90	19.40	678.10						
3/6/2010	785.60		97.40	714.10	19.30	678.20						
3/15/2010	786.20		96.90	714.60	19.30	678.20						
3/16/2010	786.30		96.80	714.70	19.30	678.20						
3/24/2010	786.20	2.03	96.00	715.50	19.30	678.20						
4/2/2010	785.80		95.00	716.50	19.30	678.20						

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
4/4/2010	785.80		95.00	716.50	19.30	678.20						
4/12/2010	787.40		95.00	716.50	19.30	678.20						
4/20/2010	790.10		95.00	716.50	19.30	678.20						
4/28/2010	792.60	1.19	95.00	716.50	19.30	678.20						
5/6/2010	792.90		95.00	716.50	19.30	678.20						
5/14/2010	792.40		93.30	718.20	19.30	678.20						
5/21/2010	792.10		91.90	719.60	19.30	678.20						
5/29/2010	791.70	0.00	89.40	722.10	19.30	678.20						
6/8/2010	791.00		88.90	722.60	19.30	678.20						
6/15/2010	790.60		88.70	722.80	19.30	678.20						
6/22/2010	790.10		88.50	723.00	19.30	678.20						
6/29/2010	789.70	0.00	88.40	723.10	19.30	678.20						
7/8/2010	789.20		88.40	723.10	19.30	678.20						
7/16/2010	788.70		88.50	723.00	19.30	678.20						
7/23/2010	788.30		88.60	722.90	19.30	678.20						
7/31/2010	787.70	0.00	88.70	722.80	19.30	678.20						
8/7/2010	787.30		89.10	722.40	19.30	678.20						
8/15/2010	786.70		89.30	722.20	19.30	678.20						
8/23/2010	786.10		89.50	722.00	19.30	678.20						
8/29/2010	785.60	0.00	89.70	721.80	19.30	678.20						
9/8/2010	784.90		90.00	721.50	19.30	678.20						
9/17/2010	784.20		90.30	721.20	19.30	678.20						
9/27/2010	783.50	0.00	90.60	720.90	19.30	678.20						
10/8/2010	782.80		90.80	720.70	19.30	678.20						
10/18/2010	782.20		91.20	720.30	19.30	678.20						
10/28/2010	782.00	1.76	91.50	720.00	19.30	678.20						
11/4/2010	781.70		91.70	719.80	19.30	678.20						
11/15/2010	781.10		91.80	719.70	19.30	678.20						
11/26/2010	780.80	1.33	92.00	719.50	19.30	678.20						
12/8/2010	780.50		92.10	719.40	19.30	678.20						
12/16/2010	780.40		92.30	719.20	19.30	678.20						
12/30/2010	792.60	11.72	89.80	721.70								
1/6/2011	792.20		89.80	721.70								
1/7/2011	792.20		89.80	721.70	20.10	677.40						
1/17/2011	792.00		87.20	724.30	20.00	677.50						
1/27/2011	791.80	1.11	87.50	724.00	20.00	677.50						
2/5/2011	791.80		87.00	724.50	20.00	677.50						
2/15/2011	791.80		86.80	724.70	20.00	677.50						
2/23/2011	792.20	2.87	86.30	725.20	20.00	677.50						
3/8/2011	792.10		85.80	725.70	20.00	677.50						
3/19/2011	791.80		85.50	726.00	20.00	677.50						
3/30/2011	791.50	3.23	85.10	726.40	20.00	677.50						

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
4/7/2011	792.10		85.00	726.50	19.90	677.60						
4/16/2011	792.50		84.90	726.60	19.70	677.80						
4/23/2011	792.60		84.80	726.70	19.60	677.90						
4/30/2011	792.60	0.00	84.70	726.80	19.60	677.90						
5/9/2011	792.40		84.80	726.70	19.60	677.90						
5/16/2011	792.40		84.80	726.70	19.60	677.90						
5/24/2011	792.40		84.90	726.60	19.60	677.90						
5/31/2011	792.40	0.81	85.00	726.50	19.60	677.90						
6/8/2011	792.10		85.00	726.50	19.60	677.90						
6/16/2011	791.90		85.20	726.30	19.60	677.90						
6/23/2011	791.80		85.40	726.10	19.60	677.90						
6/30/2011	791.60	0.00	85.50	726.00	19.60	677.90						
7/8/2011	791.40		85.40	726.10	19.60	677.90						
7/14/2011	791.20		85.40	726.10	19.60	677.90						
7/21/2011	790.90		85.60	725.90	19.60	677.90						
7/30/2011	790.40	0.00	85.70	725.80	19.60	677.90						
8/9/2011	789.90		86.30	725.20	19.60	677.90						
8/15/2011	789.70		86.80	724.70	19.60	677.90						
8/24/2011	789.00		87.10	724.40	19.60	677.90						
9/1/2011	788.65	0.00	87.30	724.20	19.60	677.90						
9/9/2011	787.90		87.50	724.00	19.60	677.90						
9/16/2011	787.30		87.80	723.70	19.60	677.90						
9/23/2011	787.00		88.20	723.30	19.60	677.90						
9/29/2011	786.80	0.08	88.60	722.90	19.60	677.90						
10/8/2011	786.60		88.70	722.80	19.60	677.90						
10/15/2011	786.40		88.80	722.70	19.60	677.90						
10/26/2011	786.00	1.29	90.00	721.50	18.10	679.40						
11/5/2011	785.50		90.20	721.30	18.20	679.30	34.00	662.00	37.00	661.00	36.20	667.30
11/14/2011	785.40		90.40	721.10	18.40	679.10	34.00	662.00	37.00	661.00	36.20	667.30
11/22/2011	785.10		90.60	720.90	18.30	679.20	35.00	661.00	37.00	661.00	37.80	665.70
11/30/2011	785.10	1.79	90.70	720.80	18.20	679.30	36.30	659.70	37.00	661.00	39.00	664.50
12/9/2011	784.80		90.80	720.70	18.30	679.20	36.30	659.70	37.00	661.00	39.00	664.50
12/17/2011	784.60		90.90	720.60	18.30	679.20	36.30	659.70	37.00	661.00	39.00	664.50
12/22/2011	784.50		91.10	720.40	18.40	679.10	36.30	659.70	37.00	661.00	39.00	664.50
12/30/2011	784.30	0.45	91.20	720.30	18.50	679.00	36.30	659.70	37.00	661.00	39.00	664.50
1/7/2012	784.00		91.30	720.20	18.60	678.90	36.30	659.70	37.00	661.00	39.00	664.50
1/14/2012	783.80		91.40	720.10	18.50	679.00	36.30	659.70	37.00	661.00	39.00	664.50
1/21/2012	783.60		91.60	719.90	18.60	678.90	36.30	659.70	37.00	661.00	39.00	664.50
1/28/2012	783.60	1.72	91.80	719.70	18.80	678.70	36.30	659.70	37.00	661.00	39.00	664.50
2/7/2012	783.40		89.00	722.50	18.40	679.10	36.40	659.60	37.00	661.00	39.00	664.50
2/15/2012	783.40		90.00	721.50	18.00	679.50	36.40	659.60	37.00	661.00	39.00	664.50
2/25/2012	783.40	0.62	90.10	721.40	17.80	679.70	36.40	659.60	37.00	661.00	39.00	664.50

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
3/5/2012	783.20		90.20	721.30	18.00	679.50	36.40	659.60	37.00	661.00	39.00	664.50
3/15/2012	782.70		90.40	721.10	18.60	678.90	36.50	659.50	37.00	661.00	39.00	664.50
3/22/2012	782.60	2.01	90.60	720.90	19.10	678.40	36.50	659.50	37.00	661.00	39.00	664.50
4/3/2012	782.50		92.60	718.90	19.10	678.40	36.50	659.50	37.00	661.00	39.00	664.50
4/12/2012	782.10		92.80	718.70	19.10	678.40	36.50	659.50	37.00	661.00	39.00	664.50
4/21/2012	782.00		93.10	718.40	19.20	678.30	36.50	659.50	37.00	661.00	39.00	664.50
4/23/2012	781.90	1.32	93.10	718.40	19.20	678.30	36.50	659.50	37.00	661.00	39.00	664.50
5/1/2012	781.70		93.10	718.40	19.20	678.30	36.50	659.50	37.00	661.00	39.00	664.50
5/7/2012	781.30		93.00	718.50	19.20	678.30	36.50	659.50	37.00	661.00	39.00	664.50
5/21/2012	780.90		93.00	718.50	21.60	675.90	36.50	659.50	37.00	661.00	39.00	664.50
5/25/2012	780.00	0.06	93.00	718.51	21.60	678.24	39.80	659.29	40.20	660.15	42.30	664.64
6/4/2012	779.60		93.00	718.51	21.60	678.24	39.80	659.29	37.00	663.35	39.00	667.94
6/13/2012	778.70		93.50	718.01	21.30	678.54	39.80	659.29	40.20	660.15	42.30	664.64
6/20/2012	778.00		93.70	717.81	21.40	678.44	39.80	659.29	40.20	660.15	42.30	664.64
6/25/2012	777.30	0.00	93.90	717.61	21.40	678.44	39.80	659.29	40.20	660.15	42.60	664.34
7/4/2012	776.30		94.14	717.37	21.40	678.44	39.90	659.19	40.30	660.05	42.50	664.44
7/13/2012	775.70		94.40	717.11	21.30	678.54	39.90	659.19	40.20	660.15	42.40	664.54
7/20/2012	775.20		95.00	716.51	20.40	679.44	39.90	659.19	40.30	660.05	42.40	664.54
7/30/2012	775.00	0.10	95.20	716.31	20.40	679.44	40.00	659.09	40.30	660.05	42.40	664.54
8/8/2012	773.00		95.40	716.11	20.30	679.54	40.00	659.09	40.30	660.05	42.50	664.44
8/9/2012	772.90		95.40	716.11	20.30	679.54	40.00	659.09	40.30	660.05	42.50	664.44
8/18/2012	772.00		96.10	715.41	20.30	679.54	40.00	659.09	40.30	660.05	42.40	664.54
8/27/2012	771.10		96.50	715.01	20.40	679.44	40.00	659.09	40.20	660.15	42.30	664.64
8/29/2012	770.90	0.00	96.50	715.01	20.40	679.44	40.00	659.09	40.20	660.15	42.30	664.64
9/8/2012	769.80		96.50	715.01	20.40	679.44	40.00	659.09	40.20	660.15	42.30	664.64
9/15/2012	768.90		96.50	715.01	20.40	679.44	40.00	659.09	40.20	660.15	42.30	664.64
9/29/2012	767.80	0.00	96.50	715.01	20.40	679.44	40.00	659.09	40.10	660.25	42.30	664.64
10/11/2012	766.80		98.00	713.51	20.40	679.44	40.10	658.99	40.10	660.25	42.30	664.64
10/23/2012	765.90	1.10	99.20	712.31	20.40	679.44	40.10	658.99	40.10	660.25	42.30	664.64
11/12/2012	764.60		99.20	712.31	20.40	679.44	40.10	658.99	40.10	660.25	42.30	664.64
11/23/2012	764.30	0.16	99.80	711.71	20.40	679.44	40.10	658.99	40.10	660.25	42.30	664.64
12/12/2012	764.50	2.46	99.90	711.61	20.40	679.44	40.10	658.99	40.10	660.25	42.30	664.64
12/27/2012	769.10		100.70	710.81	20.40	679.44	40.40	658.69	40.10	660.25	42.30	664.64
1/16/2013	770.40		99.00	712.51	20.40	679.44	40.10	658.99	40.10	660.25	42.30	664.64
1/28/2013	769.90	1.82	101.00	710.51	20.40	679.44	40.40	658.69	40.20	660.15	42.30	664.64
2/15/2013	769.60		104.00	707.51	20.40	679.44	40.10	658.99	40.20	660.15	42.30	664.64
2/26/2013	769.40	0.68	107.00	704.51	21.00	678.84	40.40	658.69	40.20	660.15	42.30	664.64
3/13/2013	768.80		100.00	711.51	20.50	679.34	40.40	658.69	40.00	660.35	42.30	664.64
3/26/2013	768.60	0.66	100.00	711.51	20.50	679.34	40.40	658.69	40.10	660.25	42.30	664.64
4/10/2013	771.10		100.00	711.51	20.50	679.34	40.40	658.69	40.10	660.25	42.30	664.64
4/30/2013	772.20	0.00	100.00	711.51	20.40	679.44	40.40	658.69	40.10	660.25	42.30	664.64
5/9/2013	771.90		101.30	710.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
5/15/2013	771.70		101.30	710.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
5/22/2013	771.40		101.30	710.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
5/30/2013	771.00	0.00	101.10	710.41	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
6/6/2013	770.80		101.30	710.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
6/13/2013	769.30		101.30	710.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
6/20/2013	769.00		101.30	710.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
6/26/2013	768.60	0.00	101.30	710.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
7/2/2013	767.80		101.30	710.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
7/10/2013	766.90		101.30	710.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
7/16/2013	766.50		101.40	710.11	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
7/29/2013	765.20	0.00	101.50	710.01	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
8/5/2013	764.50		101.70	709.81	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
8/12/2013	763.80		101.70	709.81	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
8/19/2013	763.30		101.70	709.81	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
8/26/2013	762.40	0.00	101.70	709.81	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
9/2/2013	761.50		101.70	709.81	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
9/10/2013	760.70		102.30	709.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
9/17/2013	759.90		102.30	709.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
9/23/2013	759.40		102.30	709.21	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
9/30/2013	758.70	0.00	102.60	708.91	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
10/7/2013	758.30		102.60	708.91	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
10/14/2013	757.60		102.90	708.61	21.10	678.74	40.40	658.69	40.10	660.25	42.60	664.34
10/21/2013	756.60		102.90	708.61	21.40	678.44	40.40	658.69	40.10	660.25	42.60	664.34
10/28/2013	756.00	0.00	103.00	708.51	21.40	678.44	40.70	658.39	40.10	660.25	42.60	664.34
11/4/2013	755.70		103.10	708.41	21.10	678.74	40.60	658.49	40.10	660.25	42.60	664.34
11/11/2013	756.10		103.10	708.41	21.10	678.74	40.60	658.49	40.10	660.25	42.60	664.34
11/18/2013	755.70		103.40	708.11	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
11/25/2013	755.40	0.55	103.40	708.11	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
12/2/2013	755.30		103.50	708.01	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
12/10/2013	755.40		103.60	707.91	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
12/16/2013	755.20		103.60	707.91	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
12/23/2013	755.20		103.80	707.71	20.80	679.04	40.60	658.49	40.10	660.25	42.60	664.34
12/30/2013	754.80	0.83	104.00	707.51	21.20	678.64	40.70	658.39	40.10	660.25	42.60	664.34
1/6/2014	754.50		104.00	707.51	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
1/13/2014	755.00		104.20	707.31	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
1/20/2014	754.60		104.20	707.31	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
1/27/2014	754.30	0.00	104.20	707.31	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
2/3/2014	754.10		104.20	707.31	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
2/10/2014	754.70		104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
2/17/2014	754.50		104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
2/24/2014	754.20	0.83	104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
3/3/2014	754.50		104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
3/10/2014	755.20		104.50	707.01	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
3/19/2014	755.90		104.50	707.01	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
3/25/2014	758.80		104.50	707.01	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
3/29/2014	760.50		104.80	706.71	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
3/31/2014	761.60	1.85	104.80	706.71	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
4/1/2014	762.00		104.60	706.91	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
4/8/2014	764.70		104.60	706.91	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
4/15/2014	766.60		104.60	706.91	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
4/22/2014	768.60		104.60	706.91	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
4/29/2014	770.40	0.88	104.60	706.91	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
5/5/2014	769.70		104.60	706.91	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
5/12/2014	769.00		104.50	707.01	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
5/19/2014	768.00		104.50	707.01	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
5/26/2014	767.10	0.00	104.50	707.01	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
6/2/2014	766.20		104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
6/9/2014	765.40		104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
6/16/2014	764.30		104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
6/23/2014	763.10		104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
6/27/2014	762.30	0.00	104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
7/7/2014	760.90		104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
7/14/2014	760.00		104.30	707.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
7/21/2014	759.10		104.40	707.11	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
7/28/2014	757.90	0.06	104.40	707.11	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
8/4/2014	756.80		104.50	707.01	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
8/11/2014	755.60		104.50	707.01	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
8/18/2014	754.70		104.60	706.91	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
8/25/2014	753.30	0.05	104.60	706.91	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
9/2/2014	751.60		104.80	706.71	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
9/8/2014	750.50		104.80	706.71	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
9/15/2014	749.40		104.80	706.71	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
9/22/2014	748.30		105.10	706.41	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
9/29/2014	747.20	0.00	105.30	706.21	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
10/6/2014	745.70		105.10	706.41	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
10/13/2014	746.70		105.50	706.01	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
10/20/2014	746.60		105.60	705.91	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
10/27/2014	745.80	0.00	105.70	705.81	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
11/3/2014	746.40		105.70	705.81	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
11/10/2014	747.20		105.70	705.81	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
11/17/2014	747.70		105.70	705.81	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
11/24/2014	748.80	0.61	105.90	705.61	21.60	678.24	40.70	658.39	40.10	660.25	42.60	664.34
12/1/2014	748.30		106.10	705.41	21.70	678.14	40.70	658.39	40.10	660.25	42.60	664.34
12/8/2014	749.10		106.10	705.41	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
12/15/2014	749.80		106.10	705.41	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
12/29/2014	750.90	5.37	106.30	705.21	21.50	678.34	40.70	658.39	40.10	660.25	42.60	664.34
1/5/2015	751.30		106.30	705.21	21.50	678.34	40.80	658.29	40.10	660.25	42.60	664.34
1/12/2015	751.80		106.30	705.21	21.50	678.34	40.80	658.29	40.10	660.25	42.60	664.34
1/19/2015	752.30		106.30	705.21	21.50	678.34	40.80	658.29	40.10	660.25	42.60	664.34
1/26/2015	752.60	1.48	106.30	705.21	21.50	678.34	40.80	658.29	40.10	660.25	42.60	664.34
2/4/2015	753.10		106.30	705.21	21.50	678.34	40.80	658.29	40.10	660.25	42.60	664.34
2/9/2015	753.30		106.30	705.21	21.50	678.34	40.80	658.29	40.10	660.25	42.60	664.34
2/16/2015	753.80		106.40	705.11	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
2/23/2015	753.90	0.44	106.40	705.11	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
3/2/2015	754.50		106.40	705.11	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
3/9/2015	755.00		106.40	705.11	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
3/16/2015	755.30		106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
3/23/2015	755.50		106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
3/30/2015	755.70	0.57	106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
4/6/2015	755.60		106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
4/13/2015	755.80		106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
4/20/2015	755.90		106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
4/27/2015	755.90	0.20	106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
5/4/2015	755.60		106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
5/11/2015	755.30		106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
5/18/2015	755.20		106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
5/26/2015	755.30	0.95	106.50	705.01	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
6/1/2015	755.20		106.60	704.91	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
6/8/2015	755.10		106.60	704.91	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
6/15/2015	755.20		106.70	704.81	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
6/22/2015	754.80		106.70	704.81	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
6/29/2015	754.20	0.00	106.70	704.81	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
7/10/2015	753.30		106.80	704.71	21.50	678.34	39.90	659.19	40.10	660.25	42.60	664.34
7/15/2015	753.00		106.80	704.71	21.50	678.34	39.90	659.19	40.10	660.25	42.60	664.34
7/21/2015	752.80		106.80	704.71	21.50	678.34	39.90	659.19	40.10	660.25	42.60	664.34
7/28/2015	752.40	0.00	106.90	704.61	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
8/4/2015	752.00		106.90	704.61	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
8/11/2015	751.60		106.70	704.81	21.50	678.34	41.20	657.89	40.10	660.25	42.60	664.34
8/18/2015	751.10		106.70	704.81	21.50	678.34	41.20	657.89	40.10	660.25	42.60	664.34
8/25/2015	750.60	0.00	106.70	704.81	21.50	678.34	41.10	657.99	40.10	660.25	42.60	664.34
9/1/2015	749.90		107.00	704.51	21.50	678.34	41.10	657.99	40.10	660.25	42.60	664.34
9/8/2015	749.00		107.10	704.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
9/15/2015	748.70		107.10	704.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
9/22/2015	748.40		107.10	704.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
9/29/2015	748.00	2.27	107.10	704.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
10/6/2015	747.60		107.10	704.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
10/13/2015	747.10		107.30	704.21	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
10/20/2015	746.70		107.30	704.21	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
10/27/2015	746.00	0.56	107.30	704.21	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
11/4/2015	745.70		107.50	704.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
11/11/2015	745.20		107.50	704.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
11/18/2015	744.80		107.60	703.91	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
11/25/2015	744.20	0.12	107.50	704.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
12/1/2015	743.70		107.70	703.81	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
12/8/2015	743.10		107.70	703.81	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
12/15/2015	742.70		107.90	703.61	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
12/22/2015	742.30		107.90	703.61	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
12/29/2015	742.10	1.29	108.00	703.51	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
1/5/2016	741.70		108.00	703.51	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
1/12/2016	742.30		108.00	703.51	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
1/19/2016	742.00		108.00	703.51	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
1/26/2016	741.80	3.51	108.10	703.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
2/2/2016	741.40		108.10	703.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
2/9/2016	741.00		108.10	703.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
2/16/2016	740.50		108.10	703.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
2/23/2016	740.20	0.35	108.10	703.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
3/1/2016	739.70		108.10	703.41	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
3/9/2016	739.40		108.20	703.31	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
3/17/2016	739.30		108.20	703.31	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
3/23/2016	739.10		108.30	703.21	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
3/30/2016	738.50	1.59	108.30	703.21	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
4/6/2016	738.00		108.30	703.21	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
4/13/2016	737.60		108.40	703.11	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
4/20/2016	736.90		108.40	703.11	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
4/27/2016	736.20	0.07	108.40	703.11	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
5/4/2016	736.90		108.50	703.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
5/11/2016	737.50		108.50	703.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
5/18/2016	737.00		108.50	703.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
5/25/2016	737.60	1.21	108.50	703.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
6/1/2016	737.60		108.50	703.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
6/8/2016	737.90		108.50	703.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
6/15/2016	738.00		108.50	703.01	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
6/23/2016	737.70		108.60	702.91	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
6/29/2016	737.50	0.00	108.60	702.91	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
7/6/2016	737.40		108.60	702.91	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
7/15/2016	737.40		108.70	702.81	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
7/20/2016	737.10		108.70	702.81	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
7/27/2016	736.70	0.00	108.70	702.81	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
8/3/2016	736.90		108.70	702.81	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
8/10/2016	737.10		108.80	702.71	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
8/17/2016	736.60		108.90	702.61	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
8/24/2016	736.70		108.90	702.61	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
8/30/2016	736.70	0.00	108.90	702.61	21.60	678.24	41.30	657.79	40.10	660.25	42.60	664.34
9/7/2016	737.30		108.90	702.61	21.70	678.14	41.30	657.79	40.10	660.25	42.60	664.34
9/14/2016	737.90		109.10	702.41	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
9/21/2016	738.80		109.10	702.41	21.70	678.14	41.30	657.79	40.10	660.25	42.60	664.34
9/28/2016	739.60	0.00	109.10	702.41	21.70	678.14	41.30	657.79	40.10	660.25	42.60	664.34
10/5/2016	739.50		109.10	702.41	21.70	678.14	41.30	657.79	40.10	660.25	42.60	664.34
10/12/2016	739.20		109.10	702.41	21.70	678.14	41.30	657.79	40.10	660.25	42.60	664.34
10/19/2016	739.30		109.10	702.41	21.70	678.14	41.30	657.79	40.10	660.25	42.60	664.34
10/26/2016	740.00	0.89	109.10	702.41	21.70	678.14	41.30	657.79	40.10	660.25	42.60	664.34
11/2/2016	741.80		109.10	702.41	21.70	678.14	41.30	657.79	40.10	660.25	42.60	664.34
11/9/2016	741.80		109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
11/16/2016	744.00		109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
11/23/2016	747.60		109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
11/29/2016	750.90	1.62	109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
12/7/2016	753.40		109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
12/14/2016	753.70		109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
12/21/2016	755.60		109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
12/28/2016	757.00	4.37	109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
1/4/2017	757.50		109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
1/13/2017	758.10		109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
1/18/2017	758.30		109.20	702.31	21.50	678.34	41.30	657.79	40.10	660.25	42.60	664.34
1/25/2017	758.00	6.73	109.20	702.31	21.50	678.34	39.50	659.59	40.10	660.25	42.60	664.34
2/1/2017	769.10		109.20	702.31	21.50	678.34	39.50	659.59	40.10	660.25	42.60	664.34
2/8/2017	769.70		108.90	702.61	21.50	678.34	40.20	658.89	40.10	660.25	42.60	664.34
2/15/2017	770.10		109.00	702.51	21.50	678.34	40.00	659.09	40.10	660.25	42.60	664.34
2/22/2017	771.80	4.17	108.80	702.71	21.50	678.34	40.10	658.99	40.10	660.25	42.60	664.34
3/1/2017	771.90		108.80	702.71	21.50	678.34	40.10	658.99	40.10	660.25	42.60	664.34
3/8/2017	771.20		108.60	702.91	21.50	678.34	40.10	658.99	40.10	660.25	42.00	664.94
3/15/2017	770.60		108.40	703.11	21.50	678.34	40.30	658.79	40.10	660.25	42.30	664.64
3/22/2017	769.60		108.30	703.21	21.50	678.34	40.40	658.69	40.10	660.25	42.30	664.64
3/29/2017	768.40	0.13	107.90	703.61	21.50	678.34	40.60	658.49	40.10	660.25	42.60	664.34
4/5/2017	769.10		107.90	703.61	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
4/12/2017	768.00		107.90	703.61	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
4/19/2017	767.90		107.80	703.71	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
4/26/2017	767.70	0.07	107.90	703.61	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
5/1/2017	767.40		107.90	703.61	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
5/10/2017	766.50		107.60	703.91	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
5/17/2017	765.90		107.50	704.01	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
5/24/2017	765.70		107.50	704.01	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
5/30/2017	765.50	0.36	107.50	704.01	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
6/7/2017	765.30		107.50	704.01	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
6/14/2017	765.10		107.30	704.21	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
6/21/2017	764.80		107.20	704.31	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
6/28/2017	764.70	0.05	107.10	704.41	21.00	678.84	40.80	658.29	40.10	660.25	42.60	664.34
7/5/2017	764.20		107.10	704.41	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
7/12/2017	763.80		107.10	704.41	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
7/19/2017	763.20		107.10	704.41	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
7/26/2017	762.70	0.00	107.10	704.41	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
8/2/2017	761.90		107.10	704.41	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
8/9/2017	761.60		107.10	704.41	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
8/16/2017	761.20		107.10	704.41	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
8/23/2017	760.60		107.10	704.41	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
8/30/2017	759.80	0.05	107.10	704.41	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
9/6/2017	758.90		107.10	704.41	20.50	679.34	40.60	658.49	40.10	660.25	42.60	664.34
9/13/2017	758.70		107.20	704.31	20.60	679.24	40.70	658.39	40.10	660.25	42.60	664.34
9/20/2017	758.30		107.20	704.31	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
9/27/2017	757.80	0.00	107.20	704.31	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
10/4/2017	757.60		107.10	704.41	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
10/10/2017	757.10		107.20	704.31	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
10/18/2017	756.90		107.30	704.21	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
10/25/2017	756.60	0.00	107.00	704.51	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
11/1/2017	755.70		107.40	704.11	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
11/8/2017	755.30		107.50	704.01	20.30	679.54	40.60	658.49	40.10	660.25	42.60	664.34
11/15/2017	755.10	0.29	107.50	704.01	20.30	679.54	40.60	658.49	40.10	660.25	42.60	664.34
12/6/2017	754.20		107.20	704.31	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
12/13/2017	753.90		107.80	703.71	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
12/20/2017	753.60		107.90	703.61	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
12/27/2017	753.30	0.00	107.90	703.61	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
1/3/2018	753.10		107.90	703.61	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
1/10/2018	753.10		107.90	703.61	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
1/17/2018	753.00		107.90	703.61	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
1/24/2018	752.80		107.90	703.61	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
1/30/2018	752.60	1.79	107.90	703.61	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
2/7/2018	752.30		107.90	703.61	20.60	679.24	40.60	658.49	40.10	660.25	42.60	664.34
2/14/2018	751.80		107.90	703.61	20.50	679.34	40.70	658.39	40.10	660.25	42.60	664.34
2/21/2018	750.20		108.00	703.51	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
2/27/2018	750.30	0.60	108.10	703.41	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
3/7/2018	750.20		108.10	703.41	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
3/15/2018	750.10		108.20	703.31	20.50	679.34	40.80	658.29	40.10	660.25	42.60	664.34
3/21/2018	750.80		108.20	703.31	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
3/28/2018	750.90	0.56	108.20	703.31	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
4/4/2018	751.70		108.20	703.31	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
4/11/2018	751.70		108.30	703.21	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
4/18/2018	750.80		108.30	703.21	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
4/25/2018	749.50	0.05	108.30	703.21	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
5/1/2018	750.50		108.40	703.11	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
5/8/2018	749.40		108.50	703.01	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
5/15/2018	748.30		108.50	703.01	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
5/22/2018	747.00		108.50	703.01	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
5/29/2018	745.60	0.32	108.40	703.11	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
6/6/2018	744.70		108.40	703.11	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
6/13/2018	743.70		108.50	703.01	20.50	679.34	40.90	658.19	40.10	660.25	42.60	664.34
6/20/2018	742.50		108.50	703.01	20.50	679.34	40.90	658.19	40.10	660.25	42.60	664.34
6/27/2018	741.20	0.00	108.50	703.01	20.50	679.34	41.00	658.09	40.10	660.25	42.60	664.34
7/5/2018	739.80		108.60	702.91	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
7/11/2018	738.70		108.80	702.71	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
7/18/2018	738.50		108.80	702.71	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
7/25/2018	738.40	0.00	108.90	702.61	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
8/1/2018	738.10		108.80	702.71	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
8/8/2018	737.80		108.90	702.61	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
8/15/2018	737.70		108.90	702.61	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
8/22/2018	737.90		108.90	702.61	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
8/29/2018	737.90	0.00	108.90	702.61	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
9/5/2018	738.00		108.90	702.61	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
9/12/2018	737.90		109.00	702.51	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
9/19/2018	737.60		109.10	702.41	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
9/26/2018	737.30	0.00	109.10	702.41	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
10/3/2018	737.50		109.10	702.41	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
10/10/2018	737.70		109.20	702.31	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
10/17/2018	738.20		109.30	702.21	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
10/24/2018	738.60		109.40	702.11	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
10/30/2018	738.50	0.69	109.50	702.01	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
11/7/2018	738.40		109.50	702.01	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
11/16/2018	737.70		109.50	702.01	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
11/21/2018	737.50		109.50	702.01	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
11/28/2018	737.20	1.66	109.50	702.01	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
12/5/2018	737.60		109.50	702.01	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
12/12/2018	737.70		109.60	701.91	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
12/19/2018	737.60		109.60	701.91	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
12/27/2018	737.40	2.05	109.70	701.81	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
1/2/2019	737.10		109.70	701.81	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34
1/9/2019	738.40		109.80	701.71	20.50	679.34	41.00	658.09	40.10	660.25	43.60	663.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
1/16/2019	738.50		109.80	701.71	20.50	679.34	40.80	658.29	40.10	660.25	43.60	663.34
1/23/2019	740.80		109.90	701.61	20.50	679.34	40.70	658.39	40.10	660.25	43.60	663.34
1/30/2019	740.70	5.18	109.90	701.61	20.50	679.34	40.80	658.29	40.10	660.25	43.60	663.34
2/6/2019	745.80		109.90	701.61	20.50	679.34	40.80	658.29	40.10	660.25	43.60	663.34
2/13/2019	747.80		110.00	701.51	20.40	679.44	40.80	658.29	40.10	660.25	43.60	663.34
2/20/2019	764.70		109.50	702.01	20.40	679.44	38.90	660.19	40.10	660.25	43.60	663.34
2/27/2019	766.80	8.65	109.80	701.71	20.40	679.44	39.00	660.09	40.10	660.25	42.00	664.94
3/6/2019	769.50		109.80	701.71	20.40	679.44	38.60	660.49	40.10	660.25	42.00	664.94
3/13/2019	772.00		109.60	701.91	20.40	679.44	38.70	660.39	40.10	660.25	42.00	664.94
3/20/2019	773.30		109.50	702.01	20.40	679.44	38.80	660.29	40.10	660.25	42.00	664.94
3/27/2019	774.30	2.49	109.50	702.01	20.40	679.44	38.90	660.19	40.10	660.25	42.00	664.94
4/3/2019	774.50		109.50	702.01	20.40	679.44	39.40	659.69	40.10	660.25	42.20	664.74
4/10/2019	774.70		109.20	702.31	20.40	679.44	40.40	658.69	40.10	660.25	42.20	664.74
1/17/2019	774.80		109.00	702.51	20.40	679.44	40.50	658.59	40.10	660.25	42.20	664.74
4/24/2019	774.90	0.10	109.00	702.51	20.40	679.44	40.50	658.59	40.10	660.25	42.20	664.74
5/1/2019	774.90		109.00	702.51	20.40	679.44	40.50	658.59	40.10	660.25	43.60	663.34
5/8/2019	774.90		108.50	703.01	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
5/15/2019	774.60		108.10	703.41	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
5/22/2019	773.90		107.70	703.81	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
5/29/2019	773.10	1.07	107.70	703.81	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
6/5/2019	772.10		107.50	704.01	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
6/12/2019	770.80		107.40	704.11	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
6/19/2019	769.50		107.30	704.21	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
6/26/2019	768.10	0.03	107.10	704.41	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
7/3/2019	766.70		107.10	704.41	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
7/5/2019	766.20		107.10	704.41	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
7/10/2019	765.10		107.00	704.51	20.80	679.04	40.50	658.59	40.10	660.25	43.60	663.34
7/17/2019	763.40		106.80	704.71	20.80	679.04	40.50	658.59	40.10	660.25	43.60	663.34
7/24/2019	761.70		106.70	704.81	20.80	679.04	40.50	658.59	40.10	660.25	43.60	663.34
7/30/2019	760.50	0.00	106.70	704.81	20.80	679.04	40.50	658.59	40.10	660.25	43.60	663.34
8/7/2019	759.60		106.70	704.81	20.80	679.04	40.50	658.59	40.10	660.25	43.60	663.34
8/14/2019	758.80		106.70	704.81	20.60	679.24	40.50	658.59	40.10	660.25	43.60	663.34
8/21/2019	757.80		106.70	704.81	20.60	679.24	40.60	658.49	40.10	660.25	43.60	663.34
8/28/2019	757.20	0.00	106.80	704.71	20.50	679.34	40.60	658.49	40.10	660.25	43.60	663.34
9/4/2019	756.70		106.80	704.71	20.50	679.34	40.60	658.49	40.10	660.25	43.60	663.34
9/11/2019	756.30		106.90	704.61	20.60	679.24	40.60	658.49	40.10	660.25	43.60	663.34
9/18/2019	755.90		106.90	704.61	20.90	678.94	40.80	658.29	40.10	660.25	43.60	663.34
9/25/2019	755.20	0.00	107.00	704.51	21.30	678.54	41.20	657.89	40.10	660.25	43.60	663.34
10/2/2019	754.60		107.00	704.51	20.70	679.14	40.90	658.19	40.10	660.25	43.60	663.34
10/10/2019	754.30		107.00	704.51	20.30	679.54	40.70	658.39	40.10	660.25	43.60	663.34
10/16/2019	753.90		107.10	704.41	20.30	679.54	40.70	658.39	40.10	660.25	43.60	663.34
10/26/2019	752.70		107.20	704.31	20.30	679.54	40.70	658.39	40.10	660.25	43.60	663.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1	NO.2	NO.3	NO.4	NO.5					
10/30/2019	752.30	0.00	107.20	704.31	20.30	679.54	40.70	658.39	40.10	660.25	43.60	663.34
11/6/2019	751.70		107.30	704.21	20.30	679.54	40.70	658.39	40.10	660.25	43.60	663.34
11/13/2019	751.30		107.50	704.01	20.30	679.54	40.70	658.39	40.10	660.25	43.60	663.34
11/20/2019	751.20		107.40	704.11	20.30	679.54	40.70	658.39	40.10	660.25	43.60	663.34
11/27/2019	751.10	2.38	107.40	704.11	20.30	679.54	40.70	658.39	40.10	660.25	43.60	663.34
12/4/2019	751.20		107.40	704.11	20.30	679.54	40.70	658.39	40.10	660.25	43.60	663.34
12/11/2019	751.40		107.80	703.71	20.30	679.54	40.60	658.49	40.10	660.25	43.60	663.34
12/18/2019	751.30		107.80	703.71	20.30	679.54	40.80	658.29	40.10	660.25	43.60	663.34
12/26/2019	751.60	4.61	107.90	703.61	20.30	679.54	40.80	658.29	40.10	660.25	43.60	663.34
1/2/2020	751.80		107.90	703.61	20.30	679.54	40.80	658.29	40.10	660.25	43.60	663.34
1/8/2020	751.90		107.70	703.81	20.30	679.54	40.90	658.19	40.10	660.25	43.60	663.34
1/15/2020	751.90		107.80	703.71	20.30	679.54	40.80	658.29	40.10	660.25	43.60	663.34
1/22/2020	751.90		107.90	703.61	20.40	679.44	40.80	658.29	40.10	660.25	43.60	663.34
1/29/2020	752.00	0.15	107.80	703.71	20.40	679.44	40.80	658.29	40.10	660.25	43.60	663.34
2/5/2020	751.90		107.80	703.71	20.40	679.44	40.80	658.29	40.10	660.25	43.60	663.34
2/12/2020	751.90		108.00	703.51	20.40	679.44	40.80	658.29	40.10	660.25	43.60	663.34
2/19/2020	751.90		108.10	703.41	20.40	679.44	41.10	657.99	40.10	660.25	43.60	663.34
2/26/2020	751.90	0.53	108.20	703.31	20.40	679.44	41.10	657.99	40.10	660.25	43.60	663.34
3/4/2020	751.80		108.20	703.31	20.40	679.44	41.10	657.99	40.10	660.25	43.60	663.34
3/11/2020	751.80		108.20	703.31	20.50	679.34	41.10	657.99	40.10	660.25	43.60	663.34
3/18/2020	752.10		108.20	703.31	20.40	679.44	41.10	657.99	40.10	660.25	43.60	663.34
3/25/2020	753.30	4.31	108.20	703.31	20.40	679.44	41.10	657.99	40.10	660.25	43.60	663.34
4/1/2020	753.60		108.20	703.31	20.40	679.44	41.10	657.99	40.10	660.25	43.60	663.34
4/8/2020	755.80		108.20	703.31	20.40	679.44	40.80	658.29	40.10	660.25	43.60	663.34
4/15/2020	760.50		108.20	703.31	20.40	679.44	39.70	659.39	40.10	660.25	43.60	663.34
4/22/2020	761.50		108.20	703.31	20.40	679.44	40.60	658.49	40.10	660.25	43.60	663.34
4/29/2020	761.90	3.88	108.20	703.31	20.40	679.44	40.30	658.79	40.10	660.25	43.60	663.34
5/6/2020	761.20		108.20	703.31	20.40	679.44	40.30	658.79	40.10	660.25	43.60	663.34
5/13/2020	762.10		108.20	703.31	20.40	679.44	40.40	658.69	40.10	660.25	43.60	663.34
5/20/2020	762.20		108.20	703.31	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
5/27/2020	762.10	0.03	108.20	703.31	20.50	679.34	40.50	658.59	40.10	660.25	43.60	663.34
6/3/2020	761.90		108.00	703.51	20.50	679.34	40.80	658.29	40.10	660.25	43.60	663.34
6/10/2020	761.80		108.00	703.51	20.30	679.54	40.80	658.29	40.10	660.25	43.60	663.34
6/19/2020	760.10		108.00	703.51	20.30	679.54	40.80	658.29	40.10	660.25	43.60	663.34
6/24/2020	759.00	0.00	108.00	703.51	20.30	679.54	40.80	658.29	40.10	660.25	43.60	663.34
7/1/2020	757.30		108.00	703.51	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
7/8/2020	755.80		108.00	703.51	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
7/15/2020	754.40		108.00	703.51	20.00	679.84	40.80	658.29	40.10	660.25	42.60	664.34
7/22/2020	752.90		108.10	703.41	20.00	679.84	40.80	658.29	40.10	660.25	42.60	664.34
7/29/2020	751.40	0.00	108.10	703.41	20.00	679.84	40.80	658.29	40.10	660.25	42.60	664.34
8/5/2020	749.90		108.10	703.41	20.00	679.84	40.80	658.29	40.10	660.25	42.60	664.34
8/12/2020	749.60		108.10	703.41	20.00	679.84	40.80	658.29	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
8/19/2020	749.10		108.10	703.41	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
8/26/2020	747.90	0.00	108.10	703.41	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
9/2/2020	746.40		108.10	703.41	20.30	679.54	40.90	658.19	40.10	660.25	42.60	664.34
9/9/2020	745.70		108.50	703.01	19.80	680.04	40.90	658.19	40.10	660.25	42.60	664.34
9/16/2020	745.20		108.40	703.11	19.40	680.44	40.80	658.29	40.10	660.25	42.60	664.34
9/19/2020	747.80		108.40	703.11	19.40	680.44	40.80	658.29	40.10	660.25	42.60	664.34
9/23/2020	749.40		108.50	703.01	19.60	680.24	40.80	658.29	40.10	660.25	42.60	664.34
9/30/2020	743.50	0.00	108.50	703.01	19.60	680.24	40.80	658.29	40.10	660.25	42.60	664.34
10/7/2020	742.70		108.50	703.01	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
10/14/2020	741.60		108.50	703.01	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
10/21/2020	740.30		108.60	702.91	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
10/28/2020	739.90	0.00	108.70	702.81	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
11/4/2020	739.40		108.70	702.81	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
11/10/2020	739.20		108.80	702.71	19.60	680.24	40.80	658.29	40.10	660.25	42.60	664.34
11/18/2020	739.00		108.80	702.71	19.80	680.04	40.80	658.29	40.10	660.25	42.60	664.34
11/25/2020	738.80	0.54	108.90	702.61	19.90	679.94	41.10	657.99	40.10	660.25	42.60	664.34
12/2/2020	738.50		108.90	702.61	19.90	679.94	41.10	657.99	40.10	660.25	42.60	664.34
12/9/2020	738.20		108.90	702.61	20.00	679.84	41.10	657.99	40.10	660.25	42.60	664.34
12/16/2020	738.00		108.90	702.61	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
12/23/2020	738.20	1.72	108.90	702.61	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
1/6/2021	742.10		109.00	702.51	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
1/13/2021	742.10		109.20	702.31	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
1/20/2021	741.80		109.20	702.31	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
1/27/2021	741.70	1.36	109.20	702.31	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
2/3/2021	741.80		109.20	702.31	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
2/10/2021	741.60		109.20	702.31	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
2/17/2021	741.40		109.20	702.31	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
2/24/2021	741.00	0.14	109.20	702.31	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
3/3/2021	740.80		109.40	702.11	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
3/10/2021	740.60		109.40	702.11	20.20	679.64	41.10	657.99	40.10	660.25	42.60	664.34
3/17/2021	741.00		109.40	702.11	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
3/24/2021	740.90		109.30	702.21	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
3/31/2021	740.60	1.53	109.30	702.21	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
4/7/2021	740.80		109.30	702.21	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
4/14/2021	740.70		109.40	702.11	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
4/21/2021	741.30		109.50	702.01	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
4/28/2021	742.00	0.00	109.50	702.01	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
5/5/2021	741.90		109.50	702.01	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
5/15/2021	740.80		109.50	702.01	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
5/19/2021	740.40		109.50	702.01	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
5/26/2021	740.10	0.05	109.50	702.01	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
6/2/2021	739.60		109.60	701.91	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
6/9/2021	738.30		109.70	701.81	20.20	679.64	41.10	657.99	40.10	660.25	42.60	664.34
6/16/2021	737.20		109.60	701.91	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
6/23/2021	736.00		109.70	701.81	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
6/30/2021	736.40	0.00	109.70	701.81	20.10	679.74	41.10	657.99	40.10	660.25	42.60	664.34
7/7/2021	737.00		109.70	701.81	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
7/14/2021	737.40		109.70	701.81	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
7/21/2021	737.80		109.90	701.61	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
7/28/2021	736.40	0.05	110.00	701.51	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
8/4/2021	736.30		110.00	701.51	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
8/11/2021	735.90		110.00	701.51	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
8/18/2021	735.90		110.00	701.51	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
8/25/2021	735.70	0.00	110.00	701.51	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
9/1/2021	735.60		110.00	701.51	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
9/8/2021	736.00		110.00	701.51	20.40	679.44	41.10	657.99	40.10	660.25	42.60	664.34
9/15/2021	737.00		110.00	701.51	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
9/22/2021	737.50		110.00	701.51	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
9/29/2021	738.00	0.00	110.00	701.51	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
10/6/2021	738.20		110.10	701.41	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
10/13/2021	738.70		110.20	701.31	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
10/22/2021	738.80		110.20	701.31	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
10/27/2021	739.00	0.46	110.30	701.21	20.30	679.54	41.10	657.99	40.10	660.25	42.60	664.34
11/3/2021	739.60		110.30	701.21	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
11/10/2021	740.20		110.30	701.21	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
11/17/2021	740.20		110.40	701.11	20.40	679.44	40.80	658.29	40.10	660.25	42.60	664.34
11/24/2021	739.90	0.00	110.40	701.11	20.40	679.44	40.80	658.29	40.10	660.25	42.60	664.34
12/1/2021	739.50		110.40	701.11	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
12/8/2021	739.40		110.50	701.01	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
12/15/2021	740.00		110.50	701.01	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
12/22/2021	740.00		110.40	701.11	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
12/29/2021	743.00	7.24	110.40	701.11	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
1/6/2022	744.20		110.40	701.11	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
1/12/2022	744.20		110.40	701.11	20.40	679.44	40.70	658.39	40.10	660.25	42.60	664.34
1/19/2022	744.10		110.60	700.91	20.40	679.44	40.70	658.39	40.10	660.25	42.60	664.34
1/26/2022	744.00	0.05	110.60	700.91	20.40	679.44	40.80	658.29	40.10	660.25	42.60	664.34
2/2/2022	743.80		110.60	700.91	20.40	679.44	40.80	658.29	40.10	660.25	42.60	664.34
2/9/2022	743.70		110.50	701.01	20.40	679.44	40.80	658.29	40.10	660.25	42.60	664.34
2/16/2022	743.60		110.40	701.11	20.40	679.44	40.80	658.29	40.10	660.25	42.60	664.34
2/28/2022	743.40	0.04	110.50	701.01	20.40	679.44	40.80	658.29	40.10	660.25	42.60	664.34
3/2/2022	743.30		110.40	701.11	20.40	679.44	40.70	658.39	40.10	660.25	42.60	664.34
3/9/2022	743.10		110.40	701.11	20.40	679.44	40.70	658.39	40.10	660.25	42.60	664.34
3/16/2022	743.00		110.40	701.11	20.40	679.44	40.70	658.39	40.10	660.25	42.60	664.34
3/23/2022	742.80		110.50	701.01	20.40	679.44	40.70	658.39	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
3/30/2022	742.10	1.28	110.60	700.91	20.40	679.44	40.70	658.39	40.10	660.25	42.60	664.34
4/6/2022	741.90		110.60	700.91	20.40	679.44	40.70	658.39	40.10	660.25	42.60	664.34
4/13/2022	741.60		110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
4/20/2022	741.10		110.50	701.01	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
4/27/2022	740.20	0.25	110.50	701.01	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
5/4/2022	739.30		110.50	701.01	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
5/11/2022	738.10		110.50	701.01	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
5/18/2022	737.90		110.50	701.01	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
5/25/2022	737.00	0.00	110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
6/1/2022	737.00		110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
6/8/2022	738.00		110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
6/15/2022	738.60		110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
6/22/2022	741.70		110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
6/29/2022	742.80	0.00	110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
7/6/2022	744.60		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
7/13/2022	745.50		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
7/20/2022	745.50		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
7/27/2022	744.50	0.03	110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
8/3/2022	743.00		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
8/10/2022	742.10		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
8/17/2022	744.60		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
8/24/2022	746.60		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
8/31/2022	748.70	0.03	110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
9/7/2022	749.60		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
9/14/2022	749.00		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
9/21/2022	747.60		110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
9/28/2022	746.00	0.29	110.70	700.81	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
10/5/2022	744.90		110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
10/12/2022	743.90		110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
10/19/2022	743.70		110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
10/26/2022	743.50	0.44	110.60	700.91	20.00	679.84	40.70	658.39	40.10	660.25	42.60	664.34
11/2/2022	743.40		110.60	700.91	20.00	679.84	40.80	658.29	40.10	660.25	42.60	664.34
11/9/2022	744.40		110.60	700.91	19.90	679.94	40.80	658.29	40.10	660.25	42.60	664.34
11/16/2022	744.30		110.60	700.91	19.90	679.94	40.80	658.29	40.10	660.25	42.60	664.34
11/23/2022	744.00		110.60	700.91	19.90	679.94	40.80	658.29	40.10	660.25	42.60	664.34
11/30/2022	743.70	1.24	110.60	700.91	19.90	679.94	40.80	658.29	40.10	660.25	42.60	664.34
12/1/2022	739.50		110.40	701.11	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
12/8/2022	739.40		110.50	701.01	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
12/15/2022	740.00		110.50	701.01	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
12/22/2022	740.00		110.40	701.11	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
12/29/2022	742.00	2.62	110.40	701.11	20.40	679.44	41.00	658.09	40.10	660.25	42.60	664.34
1/4/2023	745.60		110.70	700.81	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1	NO.2	NO.3	NO.4	NO.5					
1/11/2023	748.90		110.70	700.81	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
1/18/2023	758.90		110.70	700.81	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
1/25/2023	760.90	6.31	110.70	700.81	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
2/1/2023	761.50		110.70	700.81	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
2/8/2023	761.80		110.70	700.81	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
2/15/2023	762.00		110.70	700.81	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
2/22/2023	762.20	2.95	110.70	700.81	20.10	679.74	40.80	658.29	40.10	660.25	42.60	664.34
3/1/2023	763.60		110.40	701.11	18.90	680.94	34.50	664.59	37.00	663.35	42.60	664.34
3/8/2023	764.10		110.40	701.11	18.90	680.94	34.40	664.69	36.80	663.55	42.60	664.34
3/15/2023	764.30		110.40	701.11	18.90	680.94	34.30	664.79	36.40	663.95	41.80	665.14
3/22/2023	772.80		110.40	701.11	18.90	680.94	34.30	664.79	36.40	663.95	41.80	665.14
3/29/2023	775.60	6.45	110.40	701.11	18.90	680.94	34.30	664.79	36.40	663.95	41.80	665.14
4/5/2023	777.40		110.10	701.41	19.40	680.44	36.40	662.69	38.20	662.15	42.00	664.94
4/12/2023	778.90		110.20	701.31	20.00	679.84	39.20	659.89	40.10	660.25	42.30	664.64
4/19/2023	779.50		110.30	701.21	20.00	679.84	39.70	659.39	40.10	660.25	42.30	664.64
4/26/2023	779.80	0.10	110.30	701.21	20.00	679.84	40.20	658.89	40.10	660.25	42.30	664.64
5/3/2023	779.80		109.20	702.31	20.00	679.84	40.30	658.79	40.10	660.25	42.30	664.64
5/10/2023	779.90		108.80	702.71	20.00	679.84	40.50	658.59	40.10	660.25	42.30	664.64
5/17/2023	779.70		108.80	702.71	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
5/24/2023	779.60	0.79	108.90	702.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
5/31/2023	779.20		108.90	702.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
6/7/2023	779.20		108.90	702.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
6/14/2023	778.90		108.90	702.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
6/21/2023	778.50		108.90	702.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
6/28/2023	777.90	0.09	108.90	702.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
7/5/2023	777.40		108.90	702.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
7/12/2023	776.70		106.00	705.51	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
7/19/2023	776.00		106.00	705.51	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
7/26/2023	775.00	0.00	106.00	705.51	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
8/3/2023	774.40		105.50	706.01	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
8/9/2023	774.00		105.50	706.01	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
8/16/2023	773.50		105.50	706.01	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
8/23/2023	773.50		105.50	706.01	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
8/31/2023	773.30	2.00	105.50	706.01	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
9/6/2023	773.20		105.50	706.01	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
9/13/2023	772.60		105.50	706.01	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
9/20/2023	772.10		105.50	706.01	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
9/27/2023	771.40	0.04	105.00	706.51	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
10/5/2023	770.40		105.00	706.51	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
10/12/2023	769.50		105.00	706.51	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
10/18/2023	768.30		105.00	706.51	20.30	679.54	36.70	662.39	40.10	660.25	42.60	664.34
10/25/2023	765.20	0.18	105.00	706.51	20.30	679.54	34.50	664.59	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
11/2/2023	762.70		105.40	706.11	20.30	679.54	38.20	660.89	40.10	660.25	42.60	664.34
11/8/2023	762.50		105.40	706.11	20.30	679.54	38.20	660.89	40.10	660.25	42.60	664.34
11/16/2023	762.40		105.40	706.11	20.30	679.54	40.10	658.99	40.10	660.25	42.60	664.34
11/21/2023	762.10		105.40	706.11	20.30	679.54	40.10	658.99	40.10	660.25	42.60	664.34
11/28/2023	761.60	0.52	105.80	705.71	20.30	679.54	40.10	658.99	40.10	660.25	42.60	664.34
12/7/2023	761.00		105.80	705.71	20.30	679.54	40.10	658.99	40.10	660.25	42.60	664.34
12/12/2023	760.70		105.80	705.71	20.30	679.54	40.60	658.49	40.10	660.25	42.60	664.34
12/19/2023	760.20	1.09	105.80	705.71	20.30	679.54	40.60	658.49	40.10	660.25	42.60	664.34
1/5/2024	759.50		105.80	705.71	20.30	679.54	40.10	658.99	40.10	660.25	42.60	664.34
1/11/2024	759.30		105.80	705.71	20.30	679.54	40.10	658.99	40.10	660.25	42.60	664.34
1/17/2024	758.90		106.30	705.21	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
1/25/2024	758.50	1.40	106.50	705.01	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
2/1/2024	758.10		106.50	705.01	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
2/7/2024	761.00		106.50	705.01	20.30	679.54	39.00	660.09	40.10	660.25	42.60	664.34
2/14/2024	761.80		106.50	705.01	20.30	679.54	36.00	663.09	37.70	662.65	42.60	664.34
2/22/2024	762.60		106.50	705.01	20.30	679.54	34.90	664.19	36.90	663.45	42.60	664.34
2/28/2024	761.80	8.20	106.70	704.81	20.30	679.54	34.90	664.19	36.90	663.45	42.60	664.34
3/6/2024	762.50		106.50	705.01	20.30	679.54	35.60	663.49	37.60	662.75	42.60	664.34
3/15/2024	762.60		106.50	705.01	20.30	679.54	36.90	662.19	38.00	662.35	42.60	664.34
3/20/2024	762.40		106.50	705.01	20.30	679.54	39.90	659.19	40.10	660.25	42.60	664.34
3/26/2024	764.00	3.28	106.90	704.61	20.30	679.54	40.00	659.09	40.10	660.25	42.60	664.34
4/3/2024	766.50		106.90	704.61	20.30	679.54	40.10	658.99	40.10	660.25	42.60	664.34
4/11/2024	768.10		106.90	704.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
4/17/2024	769.00		106.90	704.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
4/24/2024	769.60		106.90	704.61	20.30	679.54	40.50	658.59	40.10	660.25	42.60	664.34
5/1/2024	770.10		106.90	704.61	20.30	679.54	39.70	659.39	40.10	660.25	42.60	664.34
5/8/2024	770.30		106.90	704.61	20.30	679.54	40.60	658.49	40.10	660.25	42.60	664.34
5/15/2024	770.60		106.50	705.01	20.30	679.54	40.60	658.49	40.10	660.25	42.60	664.34
5/22/2024	770.50		106.60	704.91	20.30	679.54	40.60	658.49	40.10	660.25	42.60	664.34
5/29/2024	770.30	0.28	106.60	704.91	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
6/5/2024	770.30		106.30	705.21	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
6/12/2024	770.20		106.30	705.21	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
6/19/2024	770.10		106.30	705.21	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
6/26/2024	769.80	0.00	106.30	705.21	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
7/3/2024	769.00		106.30	705.21	20.30	679.54	40.80	658.29	40.10	660.25	42.60	664.34
7/11/2024	768.20		106.30	705.21	20.30	679.54	40.90	658.19	40.10	660.25	42.60	664.34
7/16/2024	767.50		106.30	705.21	20.30	679.54	40.90	658.19	40.10	660.25	42.60	664.34
7/24/2024	766.60		106.30	705.21	20.30	679.54	40.90	658.19	40.10	660.25	42.60	664.34
7/31/2024	765.70	0.00	106.30	705.21	20.00	679.84	40.90	658.19	40.10	660.25	42.60	664.34
8/7/2024	764.80		106.30	705.21	20.00	679.84	41.00	658.09	40.10	660.25	42.60	664.34
8/15/2024	763.60		105.90	705.61	19.90	679.94	41.00	658.09	40.10	660.25	42.60	664.34
8/21/2024	762.70		106.00	705.51	19.90	679.94	41.00	658.09	40.10	660.25	42.60	664.34

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

**TABLE 2
SANTIAGO CREEK DAM
PIEZOMETER MEASUREMENTS
JANUARY 2007 THROUGH DECEMBER 2025**

Piezometer Number			No. 1		No. 2		No. 3		No. 4		No. 5	
Top Ref. Elev. (ft)			811.500		697.500		696.000		698.000		703.500	
Top Ref. Elev. (ft) After 5/21/2012			811.510		699.835		699.090		700.345		706.935	
Tip Elev. (ft)			695.310		677.700		653.990		654.000		655.500	
Total Depth (ft)			116.2		19.8		42.0		44.0		48.0	
Total Depth (ft) After 5/21/2012			116.2		22.1		45.1		46.3		51.4	
Date	Reservoir W.S. Elev. (ft)	Monthly Rainfall (inch)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)	Depth to Water (ft)	W.S. Elev. (ft)
			NO.1		NO.2		NO.3		NO.4		NO.5	
8/29/2024	761.40	0.00	106.00	705.51	19.90	679.94	41.00	658.09	40.10	660.25	42.60	664.34
9/4/2024	760.60		106.00	705.51	20.00	679.84	41.50	657.59	40.10	660.25	42.60	664.34
9/18/2024	759.50		106.00	705.51	19.00	680.84	41.50	657.59	40.10	660.25	42.60	664.34
9/25/2024	759.20	0.00	106.00	705.51	21.20	678.64	41.20	657.89	40.10	660.25	42.60	664.34
10/2/2024	758.90		106.00	705.51	19.70	680.14	41.20	657.89	40.10	660.25	42.60	664.34
10/10/2024	758.60		106.20	705.31	19.70	680.14	41.00	658.09	40.10	660.25	42.60	664.34
10/16/2024	758.40		106.20	705.31	19.70	680.14	41.00	658.09	40.10	660.25	42.60	664.34
10/25/2024	758.20		106.20	705.31	19.50	680.34	41.00	658.09	40.10	660.25	42.60	664.34
10/30/2024	758.10	0.00	106.40	705.11	19.80	680.04	41.00	658.09	40.10	660.25	42.60	664.34
11/5/2024	757.90		106.00	705.51	19.70	680.14	41.00	658.09	40.10	660.25	42.60	664.34
11/13/2024	757.70		106.20	705.31	20.10	679.74	41.00	658.09	40.10	660.25	42.60	664.34
11/20/2024	757.60		106.40	705.11	20.00	679.84	41.00	658.09	40.10	660.25	42.60	664.34
11/27/2024	757.50	0.05	105.87	705.64	19.95	679.89	40.10	658.99	41.23	659.12	42.60	664.34
12/2/2024	757.40		106.40	705.11	19.80	680.04	41.00	658.09	40.10	660.25	42.60	664.34
12/11/2024	757.20		106.60	704.91	19.60	680.24	41.00	658.09	40.10	660.25	42.60	664.34
12/18/2024	757.10		106.60	704.91	19.40	680.44	41.00	658.09	40.10	660.25	42.60	664.34
12/26/2024	757.10	0.00	106.60	704.91	19.30	680.54	41.00	658.09	40.10	660.25	42.60	664.34
1/23/2025	756.60	1.08	106.30	705.21	21.30	678.54	41.50	657.59	40.50	659.85	42.80	664.14
2/25/2025	757.80	3.39	106.30	705.21	19.40	680.44	40.70	658.39	40.10	660.25	42.40	664.54
3/26/2025	759.00	2.40	106.30	705.21	20.70	679.14	40.70	658.39	40.10	660.25	42.20	664.74
4/14/2025	759.00		106.30	705.21	20.55	679.29	40.70	658.39	40.00	660.35	42.20	664.74
4/24/2025	759.00	0.38	106.45	705.06	21.20	678.64	39.90	659.19	40.10	660.25	42.20	664.74
5/22/2025	758.90	0.12	106.50	705.01	20.10	679.74	40.80	658.29	40.10	660.25	42.40	664.54
6/18/2025	758.00	0.07	106.60	704.91	20.50	679.34	40.70	658.39	40.10	660.25	42.30	664.64
7/23/2025	755.30	0.00	106.80	704.71	20.15	679.69	40.90	658.19	40.10	660.25	42.30	664.64
8/21/2025	752.60	0.00	107.00	704.51	20.20	679.64	40.70	658.39	40.10	660.25	42.40	664.54
9/23/2025	748.80	0.09	107.00	704.51	21.20	678.64	40.90	658.19	40.10	660.25	42.30	664.64
10/23/2025	746.90	1.26	107.40	704.11	20.60	679.24	40.70	658.39	40.20	660.15	42.30	664.64
11/19/2025	746.90	5.18	107.40	704.11	19.70	680.14	40.50	658.59	40.10	660.25	42.30	664.64
12/16/2025	746.80	1.87	107.70	703.81	20.60	679.24	40.70	658.39	40.20	660.15	42.40	664.54

Notes:
1. Readings in red are classified as erroneous.
2. Piezometer data based on NAVD 88 datum.

TABLE 3
SANTIAGO CREEK DAM
ELEVATIONS OF BENCHMARK BM-0 AND
SURVEY MONUMENTS BM-1, BM-2, BM-3, BM-4, AND BM-5
1989 THROUGH 2025

Date	Reservoir Elevation (ft)	Temp. (°C)	BM-0 (ft)	BM-1 (ft)	BM-2 (ft)	BM-3 (ft)	BM-4 (ft)	BM-5 (ft)
12/21/1989			830.540	811.923	811.768	811.620	815.450	815.610
10/11/1990			830.538	811.923	811.748	811.613	815.455	815.620
7/26/1991			830.535	811.918	811.743	811.613	815.458	815.625
12/20/1991			830.540	811.918	811.745	811.615	815.450	815.620
8/4/1992			830.535	811.913	811.750	811.613	815.440	815.610
1/14/1993			830.545	811.913	811.747	811.623	815.445	815.620
9/15/1993			830.535	811.888	811.728	811.600	815.420	815.600
1/7/1994			830.540	811.890	811.730	811.600	815.418	815.600
7/28/1994			830.538	811.893	811.730	811.600	815.415	815.595
2/6/1995			830.543	811.898	811.730	811.600	815.408	815.590
6/26/1996			830.538	811.893	811.733	811.600	815.405	815.595
1/24/1997			830.543	811.905	811.750	811.615	815.403	815.595
1/24/1997			830.543	811.905	811.750	811.615	815.403	815.595
1/16/1998			830.540	811.900	811.748	811.610	815.405	815.600
1/20/1999			830.540	811.890	811.738	811.608	815.395	815.600
3/14/2000			830.540	811.897	811.740	811.610	815.395	815.600
1/31/2002			830.540	811.900	811.745	811.610	815.395	815.605
8/27/2003			830.540	811.890	811.730	811.590	815.400	815.605
8/2/2004			830.540	811.900	811.750	811.605	815.405	815.610
2/7/2005			830.540	811.900	811.745	811.615	815.410	815.620
3/1/2006			830.540	811.900	811.745	811.610	815.400	815.615
1/9/2007	749.70		830.540	811.900	811.750	811.610	815.395	815.610
6/5/2008	771.20		830.540	811.900	811.745	811.610	815.390	815.610
6/15/2009	788.20		830.540	811.905	811.750	811.620	815.400	815.630
5/20/2010	792.10		830.540	811.885	811.730	811.600	815.390	815.610
5/12/2011	792.40		830.540	811.895	811.740	811.610	815.400	815.625
5/21/2012	780.90		830.540	811.900	811.740	811.615	815.400	815.630
6/12/2013	769.30		830.540	811.895	811.740	811.600	815.390	815.620
4/22/2014	768.60		830.540	811.895	811.740	811.600	815.385	815.615
6/5/2015	755.10		830.540	811.900	811.740	811.600	815.380	815.610
7/26/2016	736.70		830.540	811.905	811.745	811.605	815.390	815.620
1/1/2017	757.50							
1/1/2018	753.10		830.540	811.910	811.755	811.620	815.400	815.630
6/5/2019	772.10		830.540	811.900	811.740	811.595	815.380	815.615
12/8/2020	738.20		830.540	811.907	811.747	811.608	815.383	815.616
5/12/2022	738.10		830.540	811.909	811.750	811.600	815.386	815.620
11/3/2022	743.40		830.540	811.907	811.748	811.603	815.392	815.629
12/6/2023	761.1	20.0	830.540	811.913	811.746	811.606	815.393	815.632
6/6/2024	770.0	18.3	830.540	811.902	811.738	811.605	815.391	815.632
10/9/2025	754	60	830.540	811.920	811.758	811.610	815.401	815.639

Note:

1. Vertical data is referenced in NAVD 88 datum.

TABLE 4
SANTIAGO CREEK DAM
NET HISTORICAL DISPLACEMENTS OF BM-1, BM-2, BM-3, BM-4, AND BM-5
IN THE NORTH-SOUTH AND EAST-WEST DIRECTIONS
1994 THROUGH 2025

Date	Reservoir Elevation (ft)	Temp. (°C)	Horizontal Displacement Measured in Feet and Inches													
			BM-0		BM-1						BM-2					
			Northing	Easting	Northing	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches	Northing	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches
1/7/1994			4875.1482	4987.4599	5251.5595	0.0000	0.0000	4711.7814	0.0000	0.0000	5544.9316	0.0000	0.0000	4597.1356	0.0000	0.0000
7/28/1994			4875.1390	4987.4510	5251.5558	-0.0037	-0.0444	4711.7914	0.0100	0.1200	5544.9194	-0.0122	-0.1464	4597.1528	0.0172	0.2064
2/6/1995			4875.1388	4987.4534	5251.5540	-0.0055	-0.0660	4711.7765	-0.0049	-0.0588	5544.9218	-0.0098	-0.1176	4597.1224	-0.0132	-0.1584
6/26/1996			4875.1390	4987.4510	5251.5581	-0.0014	-0.0168	4711.7802	-0.0012	-0.0144	5544.9177	-0.0139	-0.1668	4597.1336	-0.0020	-0.0240
1/24/1997			4875.1393	4987.4480	5251.5817	0.0222	0.2664	4711.7476	-0.0338	-0.4056	5544.9240	-0.0076	-0.0912	4597.1085	-0.0271	-0.3252
1/24/1997			4875.1393	4987.4480	5251.5817	0.0222	0.2664	4711.7476	-0.0338	-0.4056	5544.9294	-0.0022	-0.0264	4597.1085	-0.0271	-0.3252
1/16/1998			4875.1339	4987.4523	5251.5756	0.0161	0.1932	4711.7490	-0.0324	-0.3888	5544.9179	-0.0137	-0.1644	4597.1171	-0.0185	-0.2220
1/20/1999			4875.1345	4987.4664	5251.5644	0.0049	0.0588	4711.7618	-0.0196	-0.2352	5544.9046	-0.0270	-0.3240	4597.1310	-0.0046	-0.0552
3/14/2000			4875.1354	4987.4672	5251.5552	-0.0043	-0.0516	4711.7949	0.0135	0.1620	5544.9129	-0.0187	-0.2244	4597.1372	0.0016	0.0192
1/31/2002			4875.1402	4987.4591	5251.5637	0.0042	0.0504	4711.7851	0.0037	0.0444	5544.9277	-0.0039	-0.0468	4597.1303	-0.0053	-0.0636
8/27/2003			4875.1394	4987.4669	5251.5584	-0.0011	-0.0132	4711.8109	0.0295	0.3540	5544.9063	-0.0253	-0.3036	4597.1502	0.0146	0.1752
8/2/2004			4875.1505	4987.4668	5251.5631	0.0036	0.0432	4711.8084	0.0270	0.3240	5544.9111	-0.0205	-0.2460	4597.1466	0.0110	0.1320
2/7/2005			4875.1387	4987.4644	5251.5589	-0.0006	-0.0072	4711.8047	0.0233	0.2796	5544.9131	-0.0185	-0.2220	4597.1493	0.0137	0.1644
3/1/2006			4875.1408	4987.4438	5251.5682	0.0087	0.1044	4711.7969	0.0155	0.1860	5544.9260	-0.0056	-0.0672	4597.1397	0.0041	0.0492
1/9/2007	749.70		4875.1424	4987.4575	5251.5562	-0.0033	-0.0396	4711.8050	0.0236	0.2832	5544.9198	-0.0118	-0.1416	4597.1566	0.0210	0.2520
6/5/2008	771.20		4875.1551	4987.4612	5251.5571	-0.0024	-0.0288	4711.8124	0.0310	0.3720	5544.9157	-0.0159	-0.1908	4597.1596	0.0240	0.2880
6/15/2009	788.20		4875.1524	4987.4579	5251.5663	0.0068	0.0816	4711.8019	0.0205	0.2460	5544.9262	-0.0054	-0.0648	4597.1518	0.0162	0.1944
5/20/2010	792.10		4875.1519	4987.4627	5251.5630	0.0035	0.0420	4711.8057	0.0243	0.2916	5544.9190	-0.0126	-0.1512	4597.1572	0.0216	0.2592
5/12/2011	792.40		4875.1504	4987.4583	5251.5628	0.0033	0.0396	4711.8002	0.0188	0.2256	5544.9210	-0.0106	-0.1272	4597.1516	0.0160	0.1920
5/21/2012	780.90		4875.1476	4987.4561	5251.5614	0.0019	0.0228	4711.7990	0.0176	0.2112	5544.9194	-0.0122	-0.1464	4597.1528	0.0172	0.2064
6/12/2013	769.30		4875.1484	4987.4575	5251.5621	0.0026	0.0312	4711.7982	0.0168	0.2016	5544.9214	-0.0102	-0.1224	4597.1554	0.0198	0.2376
4/22/2014	768.60		4875.1527	7987.4554	5251.5636	0.0041	0.0492	4711.8022	0.0208	0.2496	5544.9230	-0.0086	-0.1032	4597.1542	0.0186	0.2232
6/5/2015	755.10		4875.1513	4987.4590	5251.5720	0.0125	0.1500	4711.8095	0.0281	0.3372	5544.9284	-0.0032	-0.0384	4597.1666	0.0310	0.3720
7/26/2016	736.70		4875.1543	4987.4587	5251.5631	0.0036	0.0432	4711.8084	0.0270	0.3240	5544.9185	-0.0131	-0.1572	4597.1616	0.0260	0.3120
1/1/2017	757.50															
1/1/2018	753.10		4875.1642	4987.4505	5251.5627	0.0032	0.0384	4711.8173	0.0359	0.4308	5544.9252	-0.0064	-0.0768	4597.1689	0.0333	0.3996
6/5/2019	772.10		4875.1455	4987.4468	5251.5654	0.0059	0.0708	4711.7945	0.0131	0.1572	5544.9329	0.0013	0.0156	4597.1592	0.0236	0.2832
12/8/2020	738.20		4875.1562	4987.4588	5251.5627	0.0032	0.0384	4711.8173	0.0359	0.4308	5544.9177	-0.0139	-0.1668	4597.1725	0.0369	0.4433
5/12/2022	738.10		4875.1552	4987.4568	5251.5622	0.0027	0.0320	4711.8161	0.0347	0.4165	5544.9206	-0.0110	-0.1320	4597.1666	0.0310	0.3715
11/3/2022	743.40		4875.1441	4987.4592	5251.5556	-0.0039	-0.0463	4711.8129	0.0315	0.3778	5544.9277	-0.0039	-0.0463	4597.1857	0.0501	0.6008
12/6/2023	761.1	20.0	4875.1571	4987.4603	5251.5534	-0.0061	-0.0732	4711.8084	0.0270	0.3239	5544.9187	-0.0130	-0.1554	4597.1650	0.0294	0.3526
6/6/2024	770.0	18.3	4875.158	4987.462	5251.543	-0.017	-0.198	4711.803	0.022	0.259	5544.914	-0.018	-0.211	4597.162	0.026	0.317
10/9/2025	754	60	4875.168	4987.437	5251.564	0.005	0.054	4711.806	0.025	0.295	5544.931	-0.001	-0.007	4597.165	0.029	0.353

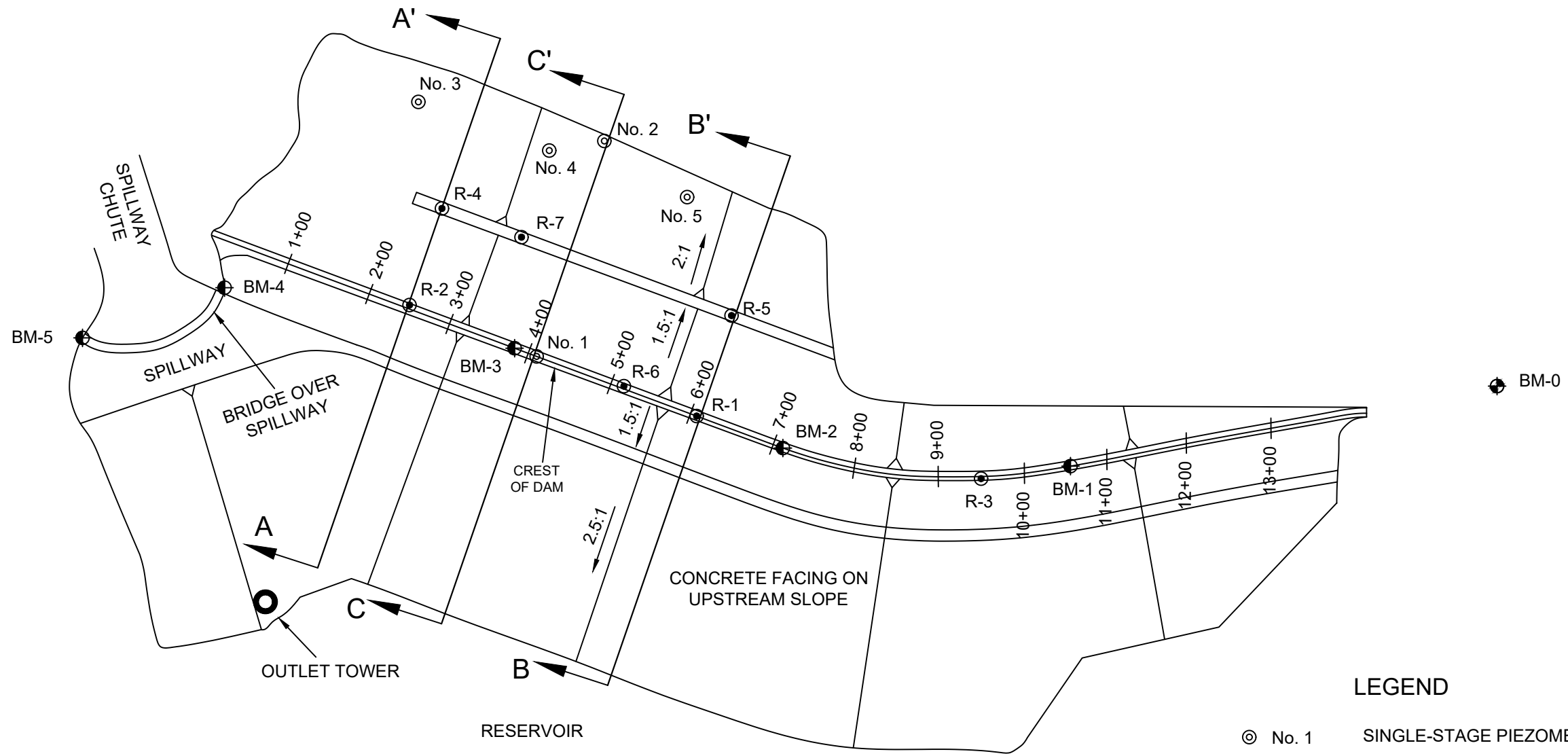
TABLE 4
SANTIAGO CREEK DAM
NET HISTORICAL DISPLACEMENTS OF BM-1, BM-2, BM-3, BM-4, AND BM-5
IN THE NORTH-SOUTH AND EAST-WEST DIRECTIONS
1994 THROUGH 2025

Date	Reservoir Elevation (ft)	Temp. (°C)	Horizontal Displacement Measured in Feet and Inches											
			BM-3						BM-4					
			Northing	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches	Northing	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches
1/7/1994			5892.2253	0.0000	0.0000	4555.7198	0.0000	0.0000	6204.5658	0.0000	0.0000	4455.1964	0.0000	0.0000
7/28/1994			5892.2209	-0.0044	-0.0528	4555.7112	-0.0086	-0.1032	6204.5514	-0.0144	-0.1728	4455.1889	-0.0075	-0.0900
2/6/1995			5892.2256	0.0003	0.0036	4555.6981	-0.0217	-0.2604	6204.5291	-0.0367	-0.4404	4455.1638	-0.0326	-0.3912
6/26/1996			5892.2141	-0.0112	-0.1344	4555.7200	0.0002	0.0024	6204.5174	-0.0484	-0.5808	4455.1621	-0.0343	-0.4116
1/24/1997			5892.2387	0.0134	0.1608	4555.7132	-0.0066	-0.0792	6204.5356	-0.0302	-0.3624	4455.1538	-0.0426	-0.5112
1/24/1997			5892.2387	0.0134	0.1608	4555.7132	-0.0066	-0.0792	6204.5356	-0.0302	-0.3624	4455.1538	-0.0426	-0.5112
1/16/1998			5892.2410	0.0157	0.1884	4555.7066	-0.0132	-0.1584	6204.5212	-0.0446	-0.5352	4455.1463	-0.0501	-0.6012
1/20/1999			5892.2111	-0.0142	-0.1704	4555.7161	-0.0037	-0.0444	6204.5203	-0.0455	-0.5460	4455.1467	-0.0497	-0.5964
3/14/2000			5892.2303	0.0050	0.0600	4555.7389	0.0191	0.2292	6204.5075	-0.0583	-0.6996	4455.1524	-0.0440	-0.5280
1/31/2002			5892.2329	0.0076	0.0912	4555.7106	-0.0092	-0.1104	6204.5311	-0.0347	-0.4164	4455.1488	-0.0476	-0.5712
8/27/2003			5892.2102	-0.0151	-0.1812	4555.7435	0.0237	0.2844	6204.5134	-0.0524	-0.6288	4455.1849	-0.0115	-0.1380
8/2/2004			5892.2122	-0.0131	-0.1572	4555.7318	0.0120	0.1440	6204.5130	-0.0528	-0.6336	4455.1816	-0.0148	-0.1776
2/7/2005			5892.2154	-0.0099	-0.1188	4555.7248	0.0050	0.0600	6204.5365	-0.0293	-0.3516	4455.1534	-0.0430	-0.5160
3/1/2006			5892.2254	0.0001	0.0012	4555.7090	-0.0108	-0.1296	6204.5365	-0.0293	-0.3516	4455.1534	-0.0430	-0.5160
1/9/2007	749.70		5892.2124	-0.0129	-0.1548	4555.7209	0.0011	0.0132	6204.5121	-0.0537	-0.6444	4455.1504	-0.0460	-0.5520
6/5/2008	771.20		5892.2125	-0.0128	-0.1536	4555.7356	0.0158	0.1896	6204.5228	-0.0430	-0.5160	4455.1596	-0.0368	-0.4416
6/15/2009	788.20		5892.2202	-0.0051	-0.0612	4555.7277	0.0079	0.0948	6204.5290	-0.0368	-0.4416	4455.1709	-0.0255	-0.3060
5/20/2010	792.10		5892.2201	-0.0052	-0.0624	4555.7386	0.0188	0.2256	6204.5391	-0.0267	-0.3204	4455.1593	-0.0371	-0.4452
5/12/2011	792.40		5892.2240	-0.0013	-0.0156	4555.7421	0.0223	0.2676	6204.5347	-0.0311	-0.3732	4455.1542	-0.0422	-0.5064
5/21/2012	780.90		5892.2197	-0.0056	-0.0672	4555.7334	0.0136	0.1632	6204.5292	-0.0366	-0.4392	4455.1567	-0.0397	-0.4764
6/12/2013	769.30		5892.2255	0.0002	0.0024	4555.7359	0.0161	0.1932	6204.5183	-0.0475	-0.5700	4455.1617	-0.0347	-0.4164
4/22/2014	768.60		5892.2344	0.0091	0.1092	4555.7315	0.0117	0.1404	6204.5274	-0.0384	-0.4608	4455.1575	-0.0389	-0.4668
6/5/2015	755.10		5892.2373	0.0120	0.1440	4555.7462	0.0264	0.3168	6204.5346	-0.0312	-0.3744	4455.1613	-0.0351	-0.4212
7/26/2016	736.70		5892.2263	0.0010	0.0120	4555.7355	0.0157	0.1884	6204.5103	-0.0555	-0.6660	4455.1512	-0.0452	-0.5424
1/1/2017	757.50													
1/1/2018	753.10		5892.2294	0.0041	0.0492	4555.7394	0.0196	0.2352	6204.5111	-0.0548	-0.6576	4455.1651	-0.0314	-0.3768
6/5/2019	772.10		5892.2437	0.0184	0.2208	4555.7322	0.0124	0.1488	6204.5309	-0.0349	-0.4188	4455.1630	-0.0334	-0.4008
12/8/2020	738.20		5892.2242	-0.0011	-0.0133	4555.7554	0.0356	0.4272	6204.5293	-0.0365	-0.4375	4455.1854	-0.0110	-0.1324
5/12/2022	738.10		5892.2295	0.0042	0.0503	4555.7390	0.0192	0.2305	6204.5316	-0.0342	-0.4102	4455.1703	-0.0261	-0.3130
11/3/2022	743.40		5892.2305	0.0052	0.0629	4555.7572	0.0374	0.4490	6204.5415	-0.0243	-0.2911	4455.1763	-0.0201	-0.2411
12/6/2023	761.1	20.0	5892.2130	-0.0123	-0.1474	4555.7323	0.0125	0.1501	6204.5339	-0.0319	-0.3824	4455.1820	-0.0144	-0.1727
6/6/2024	770.0	18.3	5892.2111	-0.014	-0.172	4555.720	0.000	0.002	6204.512	-0.054	-0.646	4455.170	-0.026	-0.317
10/9/2025	754	60	5892.239	0.014	0.164	4555.735	0.015	0.182	6204.541	-0.025	-0.298	4455.158	-0.038	-0.461

TABLE 4
SANTIAGO CREEK DAM
NET HISTORICAL DISPLACEMENTS OF BM-1, BM-2, BM-3, BM-4, AND BM-5
IN THE NORTH-SOUTH AND EAST-WEST DIRECTIONS
1994 THROUGH 2025

Date	Reservoir Elevation (ft)	Temp. (°C)	Horizontal Displacement Measured in Feet and Inches					
			BM-5					
			Northing	N(+)/S(-) Feet	N(+)/S(-) Inches	Easting	E(+)/W(-) Feet	E(+)/W(-) Inches
1/7/1994			6327.7984	0.0000	0.0000	4332.9289	0.0000	0.0000
7/28/1994			6327.7932	-0.0052	-0.0624	4332.9073	-0.0216	-0.2592
2/6/1995			6327.7972	-0.0012	-0.0144	4332.9375	0.0086	0.1032
6/26/1996			6327.8029	0.0045	0.0540	4332.9266	-0.0023	-0.0276
1/24/1997			6327.8061	0.0077	0.0924	4332.9330	0.0041	0.0492
1/24/1997			6327.8061	0.0077	0.0924	4332.9330	0.0041	0.0492
1/16/1998			6327.7838	-0.0146	-0.1752	4332.9443	0.0154	0.1848
1/20/1999			6327.7642	-0.0342	-0.4104	4332.8896	-0.0393	-0.4716
3/14/2000			6327.7638	-0.0346	-0.4152	4332.8979	-0.0310	-0.3720
1/31/2002			6327.7805	-0.0179	-0.2148	4332.9378	0.0089	0.1068
8/27/2003			6327.7616	-0.0368	-0.4416	4332.9312	0.0023	0.0276
8/2/2004			6327.7582	-0.0402	-0.4824	4332.9289	0.0000	0.0000
2/7/2005			6327.7694	-0.0290	-0.3480	4332.9112	-0.0177	-0.2124
3/1/2006			6327.7579	-0.0405	-0.4860	4332.8928	-0.0361	-0.4332
1/9/2007	749.70		6327.7420	-0.0564	-0.6768	4332.9169	-0.0120	-0.1440
6/5/2008	771.20		6327.7445	-0.0539	-0.6468	4332.8995	-0.0294	-0.3528
6/15/2009	788.20		6327.7592	-0.0392	-0.4704	4332.9244	-0.0045	-0.0540
5/20/2010	792.10		6327.7667	-0.0317	-0.3804	4332.9125	-0.0164	-0.1968
5/12/2011	792.40		6327.7631	-0.0353	-0.4236	4332.9143	-0.0146	-0.1752
5/21/2012	780.90		6327.7599	-0.0385	-0.4620	4332.9079	-0.0210	-0.2520
6/12/2013	769.30		6327.7438	-0.0546	-0.6552	4332.9160	-0.0129	-0.1548
4/22/2014	768.60		6327.7409	-0.0575	-0.6900	4332.9013	-0.0276	-0.3312
6/5/2015	755.10		6327.7515	-0.0469	-0.5628	4332.9202	-0.0087	-0.1044
7/26/2016	736.70		6327.7394	-0.0590	-0.7080	4332.9182	-0.0107	-0.1284
1/1/2017	757.50							
1/1/2018	753.10		6327.7209	-0.0775	-0.9300	4332.9194	-0.0095	-0.1140
6/5/2019	772.10		6327.7314	-0.0670	-0.8040	4332.8980	-0.0309	-0.3708
12/8/2020	738.20		6327.7259	-0.0725	-0.8699	4332.9336	0.0047	0.0562
5/12/2022	738.10		6327.7258	-0.0726	-0.8714	4332.9116	-0.0173	-0.2080
11/3/2022	743.40		6327.7253	-0.0731	-0.8778	4332.9273	-0.0016	-0.0190
12/6/2023	761.1	20.0	6327.7243	-0.0741	-0.8897	4332.9319	0.0030	0.0362
6/6/2024	770.0	18.3	6327.689	-0.109	-1.313	4332.852	-0.077	-0.923
10/9/2025	754	60	6327.729	-0.0694	-0.8328	4332.909	-0.0199	-0.2388

Figures




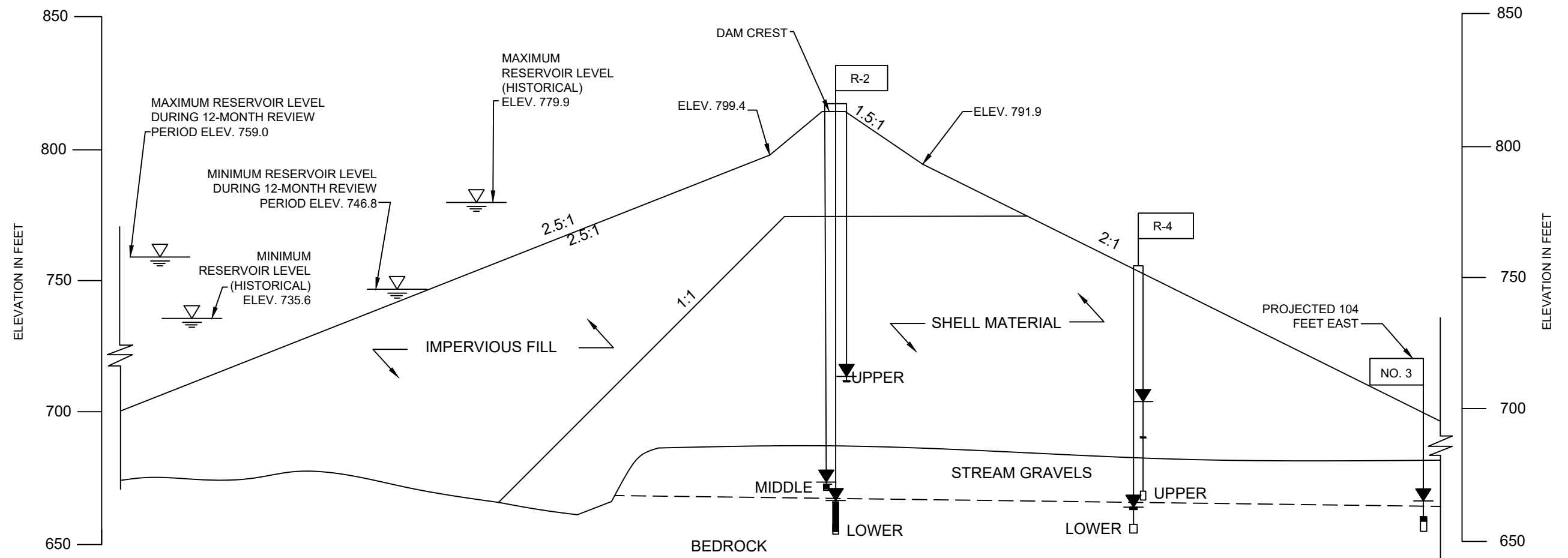
LEGEND

- ⊙ No. 1 SINGLE-STAGE PIEZOMETER
- ⊙ R-2 MULTI-STAGE PIEZOMETER
- ⊕ BM-5 BENCH MARK
- ⊕ BM-0 SURVEY MONUMENT

NOTE: SECTIONS A-A', B-B' AND C-C' ARE SHOWN ON FIGURES 1B, 1C, AND 1D RESPECTIVELY.

NOT TO SCALE

Annual Surveillance Report from Jan. 2025 to Dec. 2025 Santiago Creek Dam Irvine, CA		SITE AND INSTRUMENTATION PLAN
Irvine Ranch Water District Irvine, CA	Project 2305575	May 2026 Fig. 1A



LEGEND

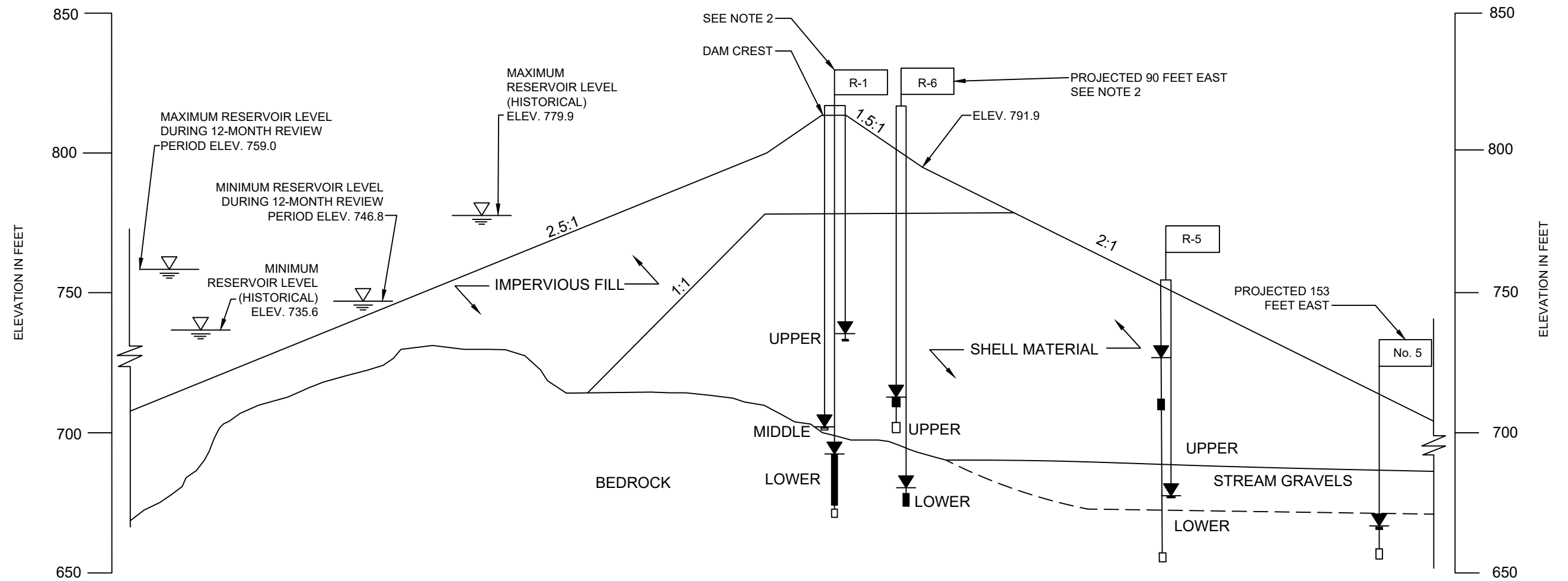
- R-1 PIEZOMETER (OPEN WELL TYPE)
- SURFACE OF DAM
- MAXIMUM HISTORICAL LEVEL (10YR)
- HIGH RANGE OF MEASURED LEVELS IN PIEZOMETER DURING 12 MONTH REVIEW PERIOD
- LOW
- PIEZOMETER TIP
- RESERVOIR WATER SURFACE

- NOTES:
- (1) SEE FIGURE 1 FOR LOCATION OF SECTION
 - (2) QUESTIONABLE READINGS ARE NOT SHOWN

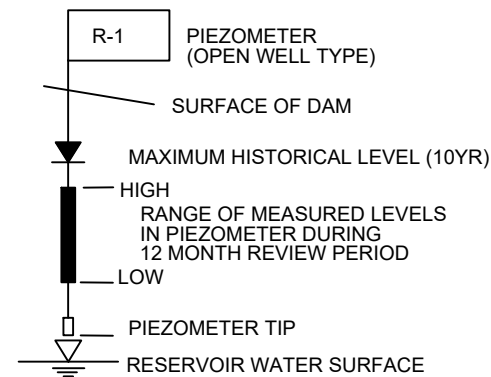
**SECTION A-A'
MAXIMUM SECTION
(APPROX. STA 2+50)**

NOT TO SCALE

Annual Surveillance Report from Jan. 2025 to Dec. 2025 Santiago Creek Dam Irvine, CA		SECTION A-A'	
		Irvine Ranch Water District Irvine, CA	Project 2305575 May 2026



LEGEND




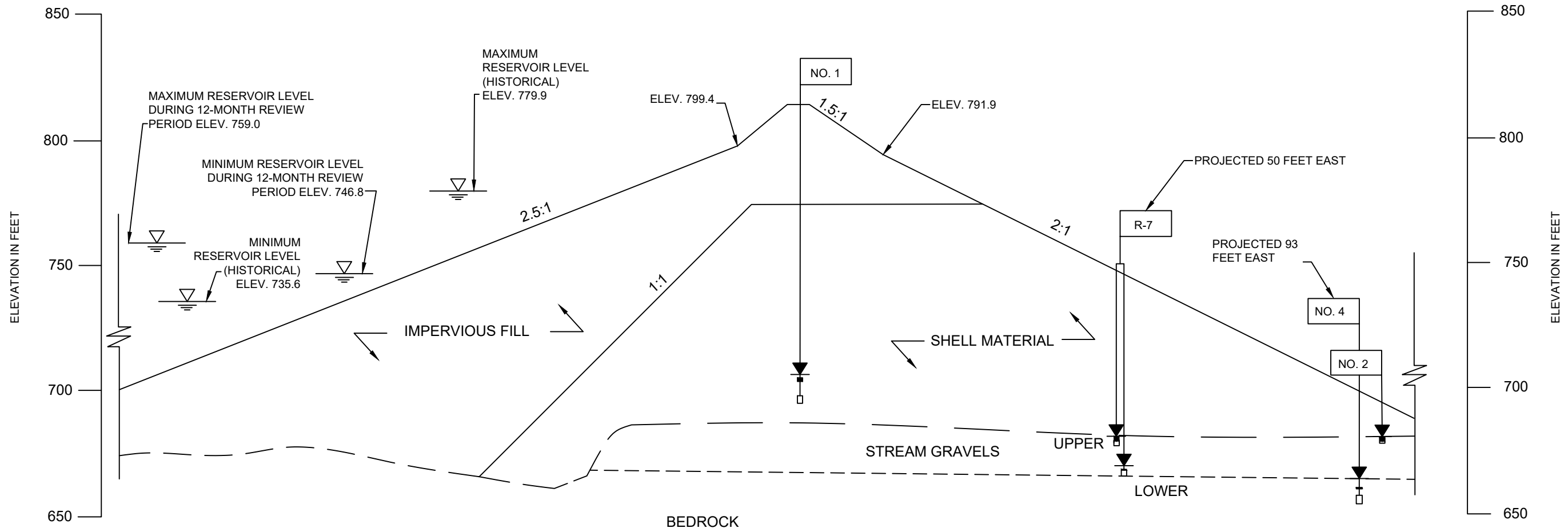
NOTES:

- (1) SEE FIGURE 1A FOR LOCATION OF SECTION
- (2) PIEZOMETERS R-1 AND R-6 ALIGN HORIZONTALLY WITH THE CENTER OF THE DAM CREST AND HAVE BEEN DISPLACED FOR PRESENTATION PURPOSES

**SECTION B-B'
(APPROX. STA 6+00)**

NOT TO SCALE

Annual Surveillance Report from Jan. 2025 to Dec. 2025 Santiago Creek Dam Irvine, CA		SECTION B-B'	
		Irvine Ranch Water District Irvine, CA	Project 2305575 May 2026



LEGEND

- R-1 PIEZOMETER (OPEN WELL TYPE)
- SURFACE OF DAM
- ▼ MAXIMUM HISTORICAL LEVEL (10YR)
- █ HIGH RANGE OF MEASURED LEVELS IN PIEZOMETER DURING 12 MONTH REVIEW PERIOD
- LOW
- PIEZOMETER TIP

NOTES:

- (1) SEE FIGURE 1A FOR LOCATION OF SECTION
- (2) EMBANKMENT AND BEDROCK CONTACTS ARE APPROXIMATE
- (3) QUESTIONABLE READINGS ARE NOT SHOWN

**SECTION C-C'
(APPROX. STA 4+00)**

NOT TO SCALE

Annual Surveillance Report from Jan. 2025 to Dec. 2025 Santiago Creek Dam Irvine, CA		SECTION C-C'
Irvine Ranch Water District Irvine, CA	Project 2305575	May 2026
		Fig. 1D

Figure 2
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS R-1 AND R-5
JANUARY 2024 THROUGH DECEMBER 2025

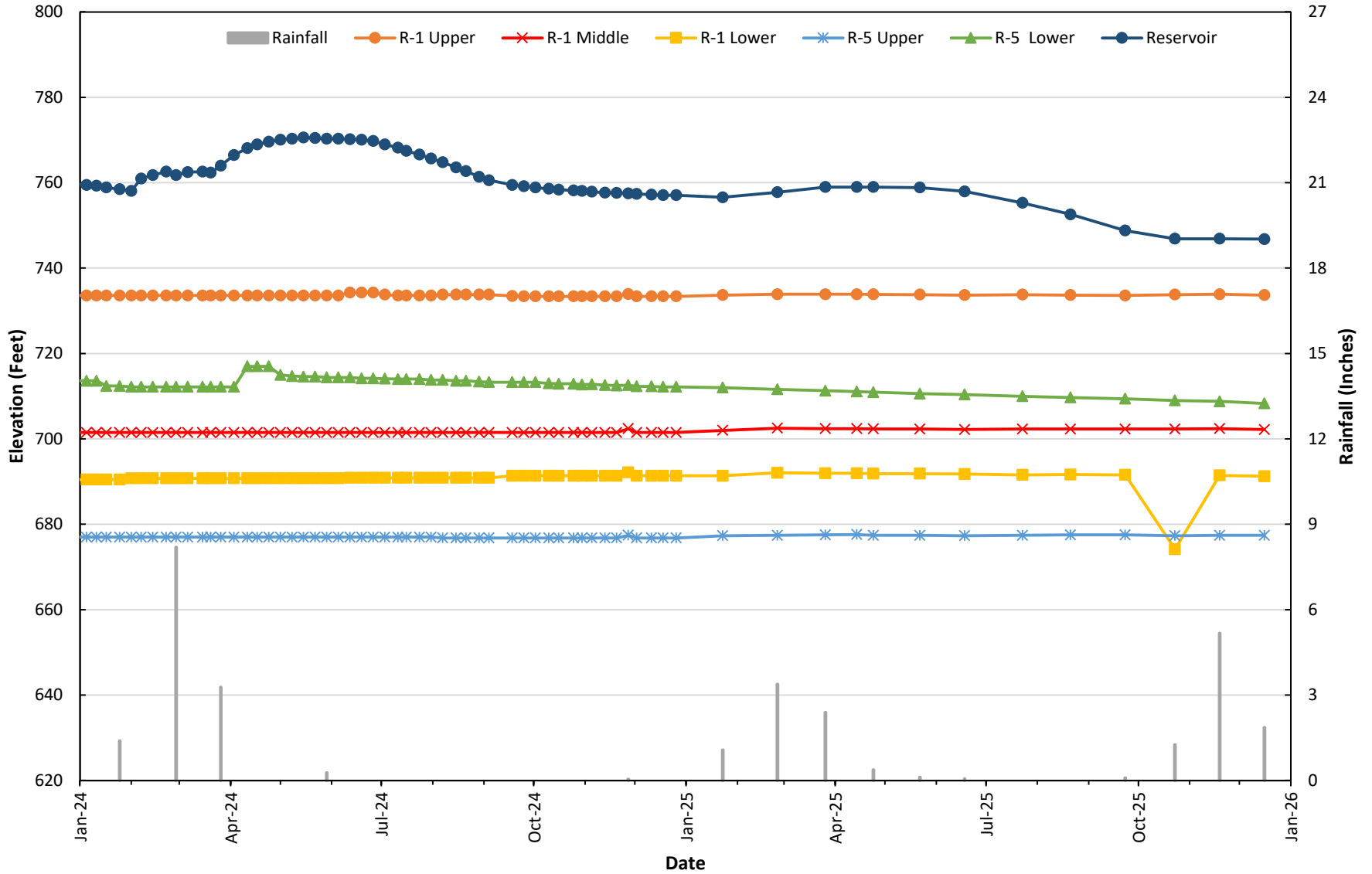


Figure 3
 SANTIAGO CREEK DAM
 2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETERS R-2 AND R-4
 JANUARY 2024 THROUGH DECEMBER 2025

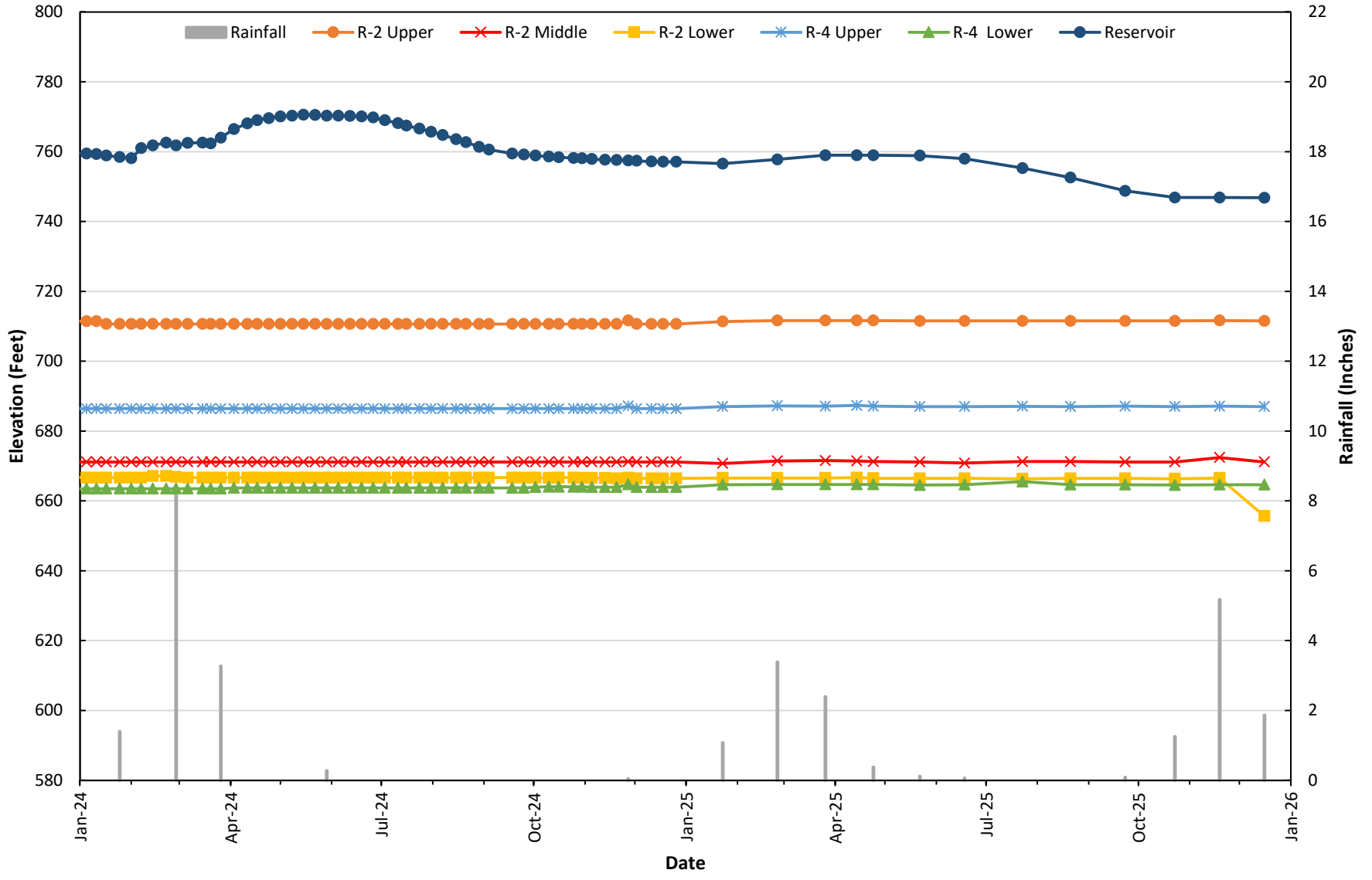


Figure 4
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETER R-3
JANUARY 2024 THROUGH DECEMBER 2025

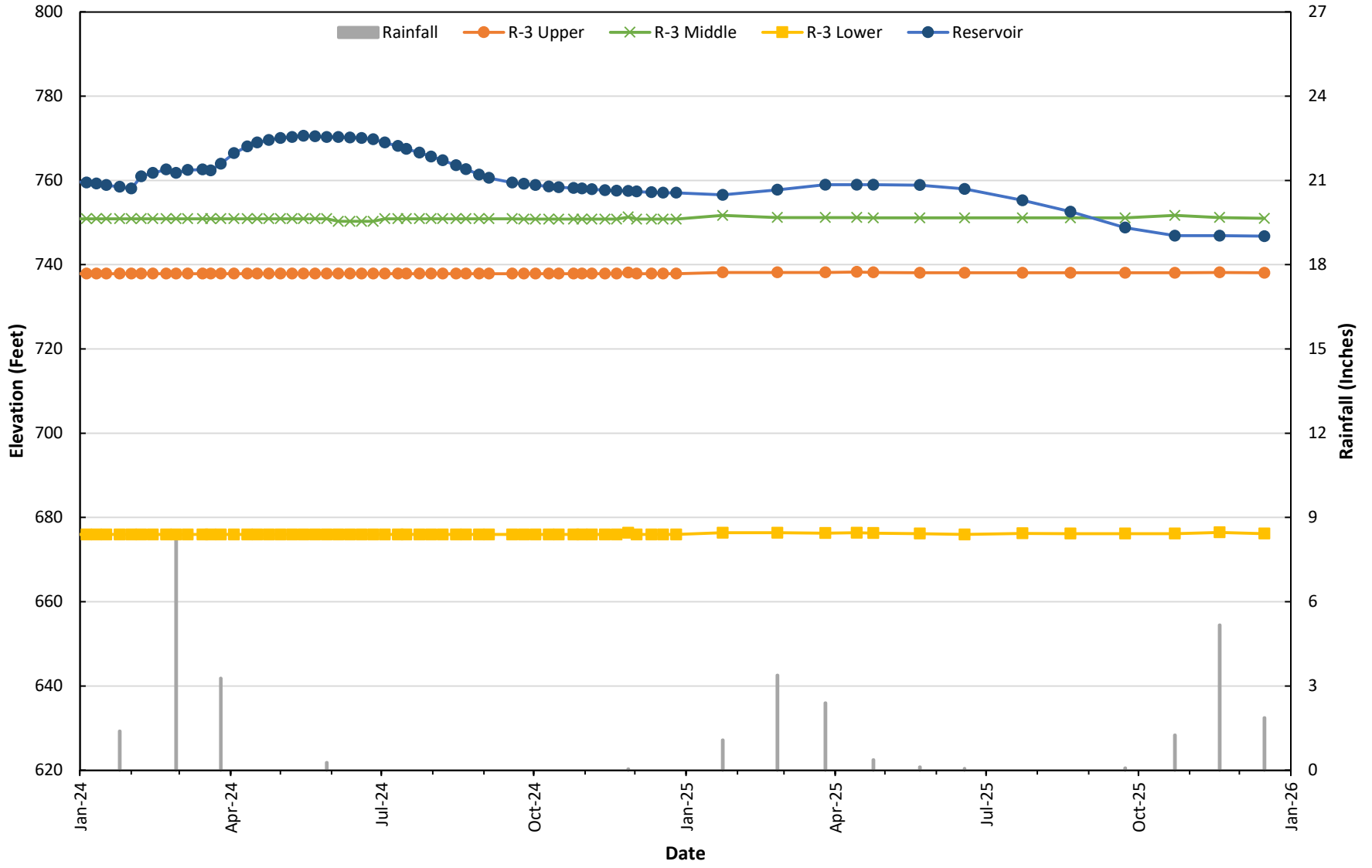


Figure 5
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETER R-6
JANUARY 2024 THROUGH DECEMBER 2025

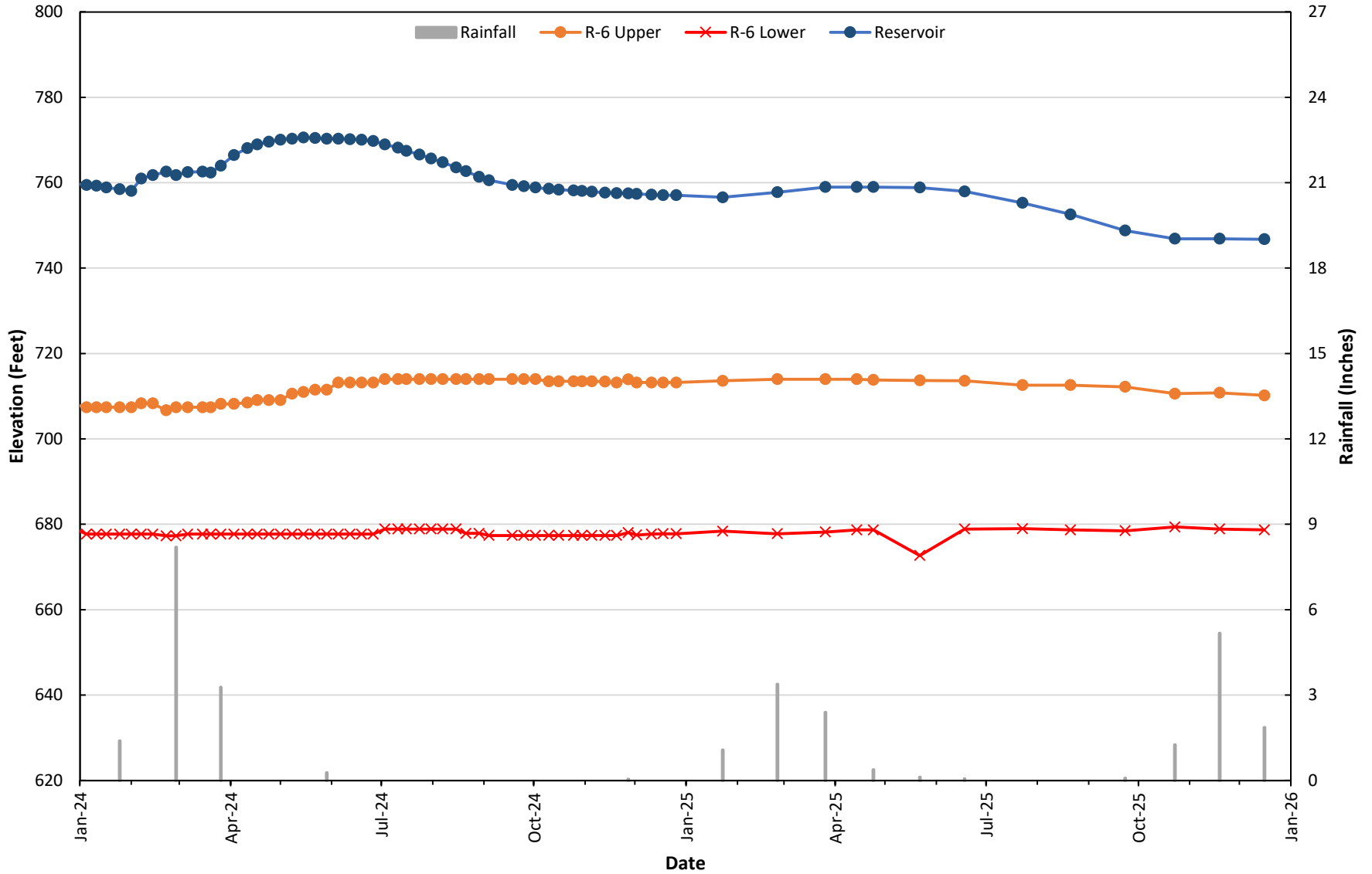


Figure 6
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS No. 1, No. 2, AND R-7
JANUARY 2024 THROUGH DECEMBER 2025

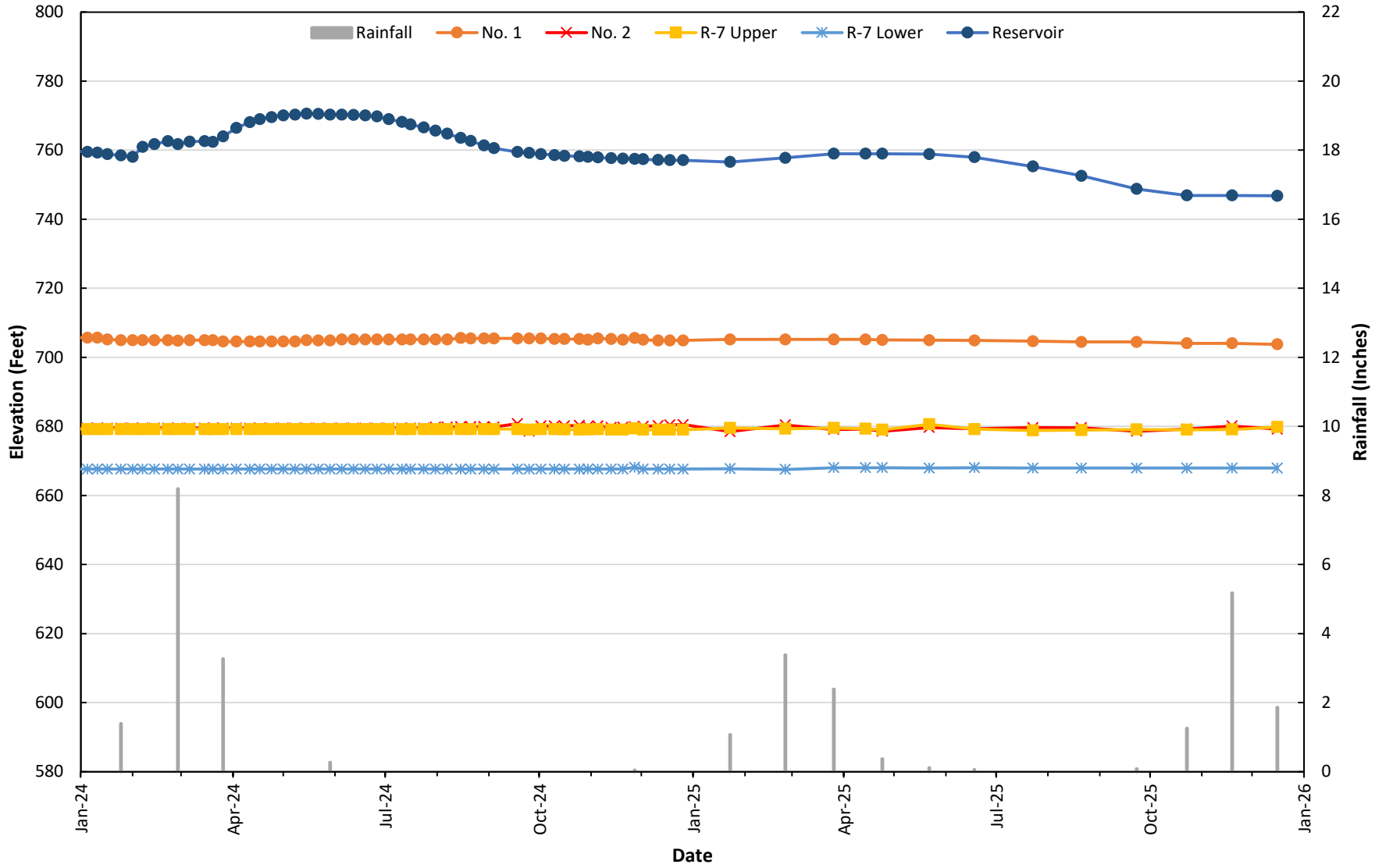


Figure 7
SANTIAGO CREEK DAM
2-YR OPEN WELL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS No. 3, No. 4, No. 5
JANUARY 2024 THROUGH DECEMBER 2025

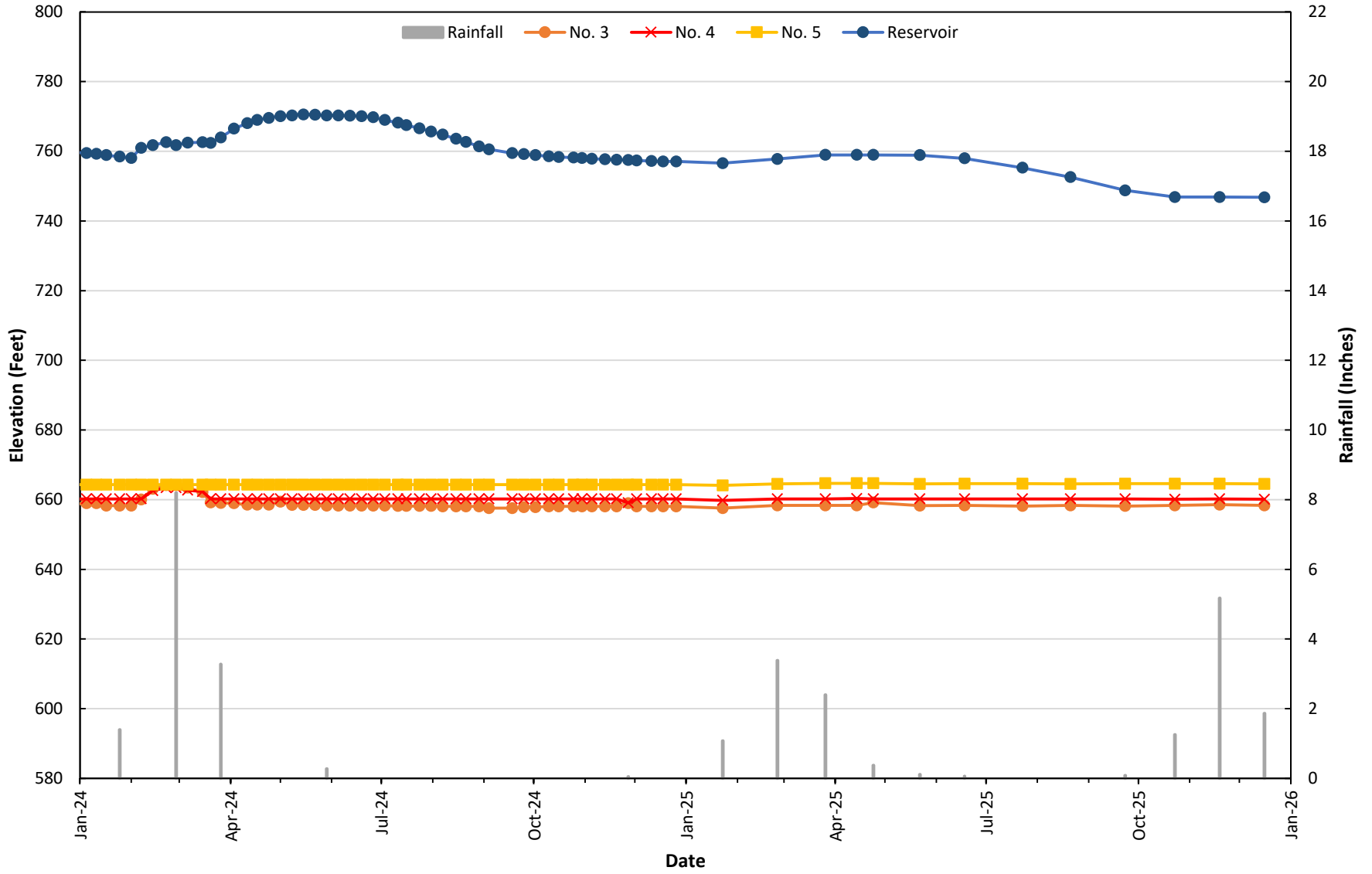


Figure 8
 SANTIAGO CREEK DAM
 HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETERS R-1 AND R-5
 JANUARY 2015 THROUGH DECEMBER 2025

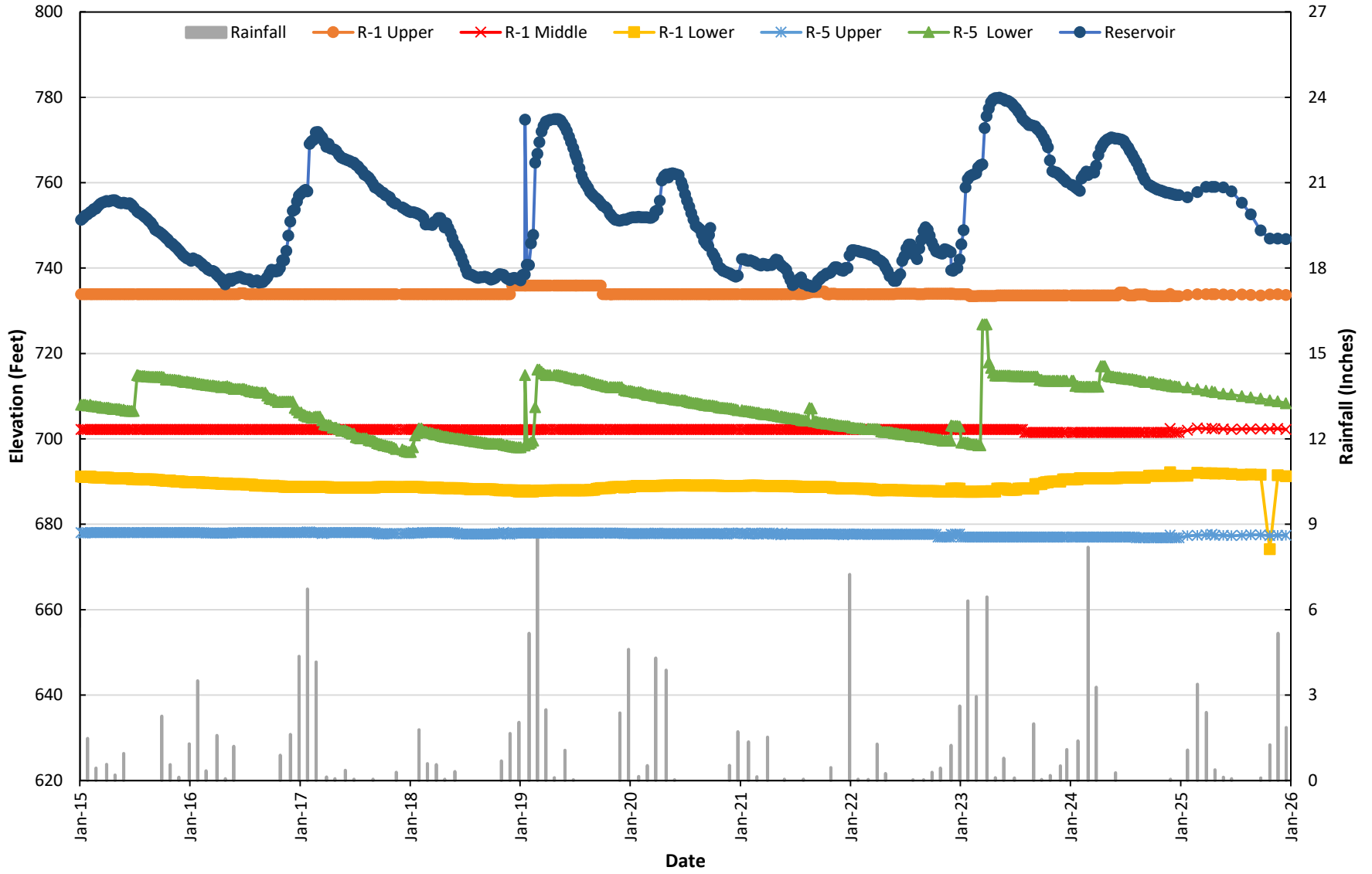


Figure 9
SANTIAGO CREEK DAM
HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
PIEZOMETERS R-2 AND R-4
JANUARY 2015 THROUGH DECEMBER 2025

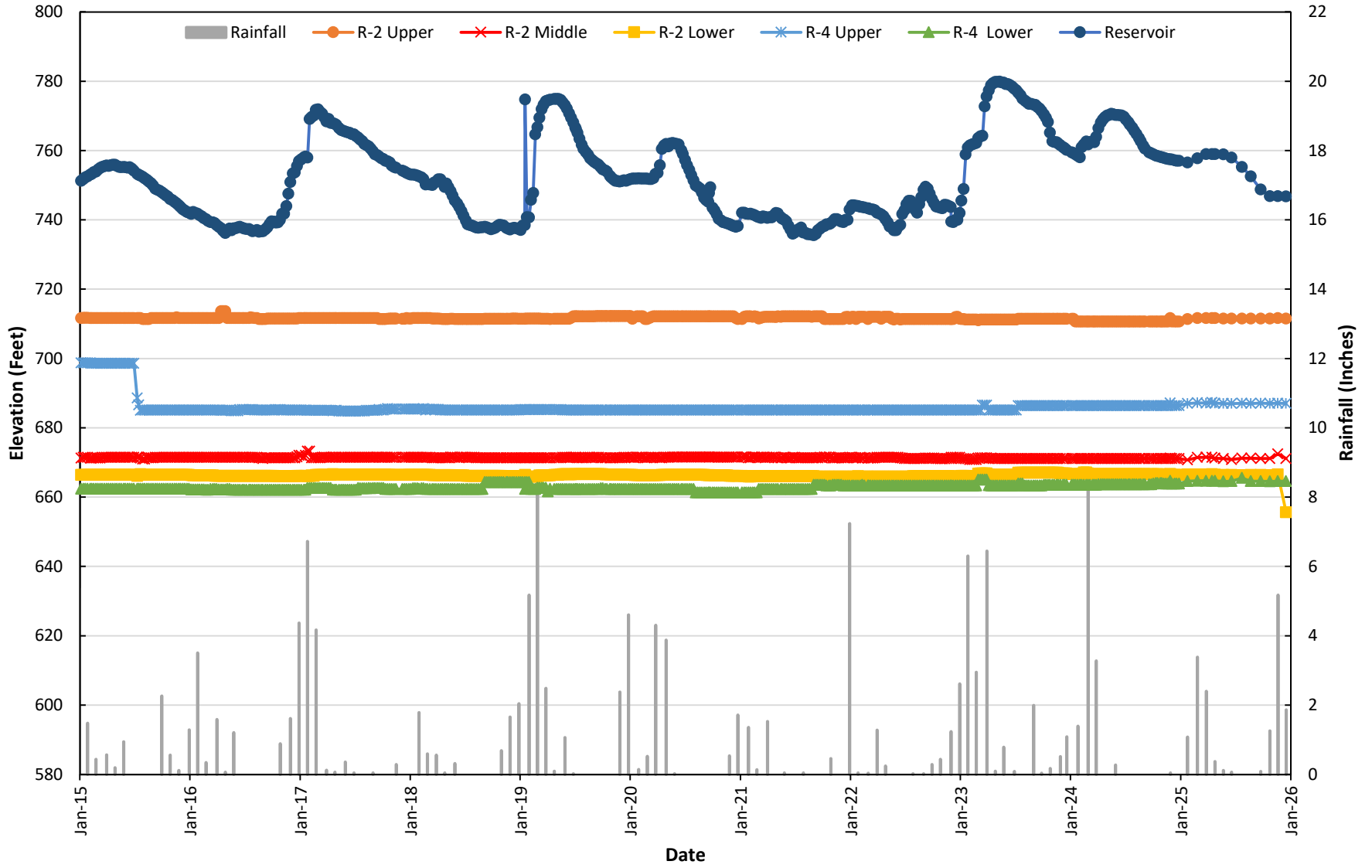


Figure 10
 SANTIAGO CREEK DAM
 HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETER R-3
 JANUARY 2015 THROUGH DECEMBER 2025

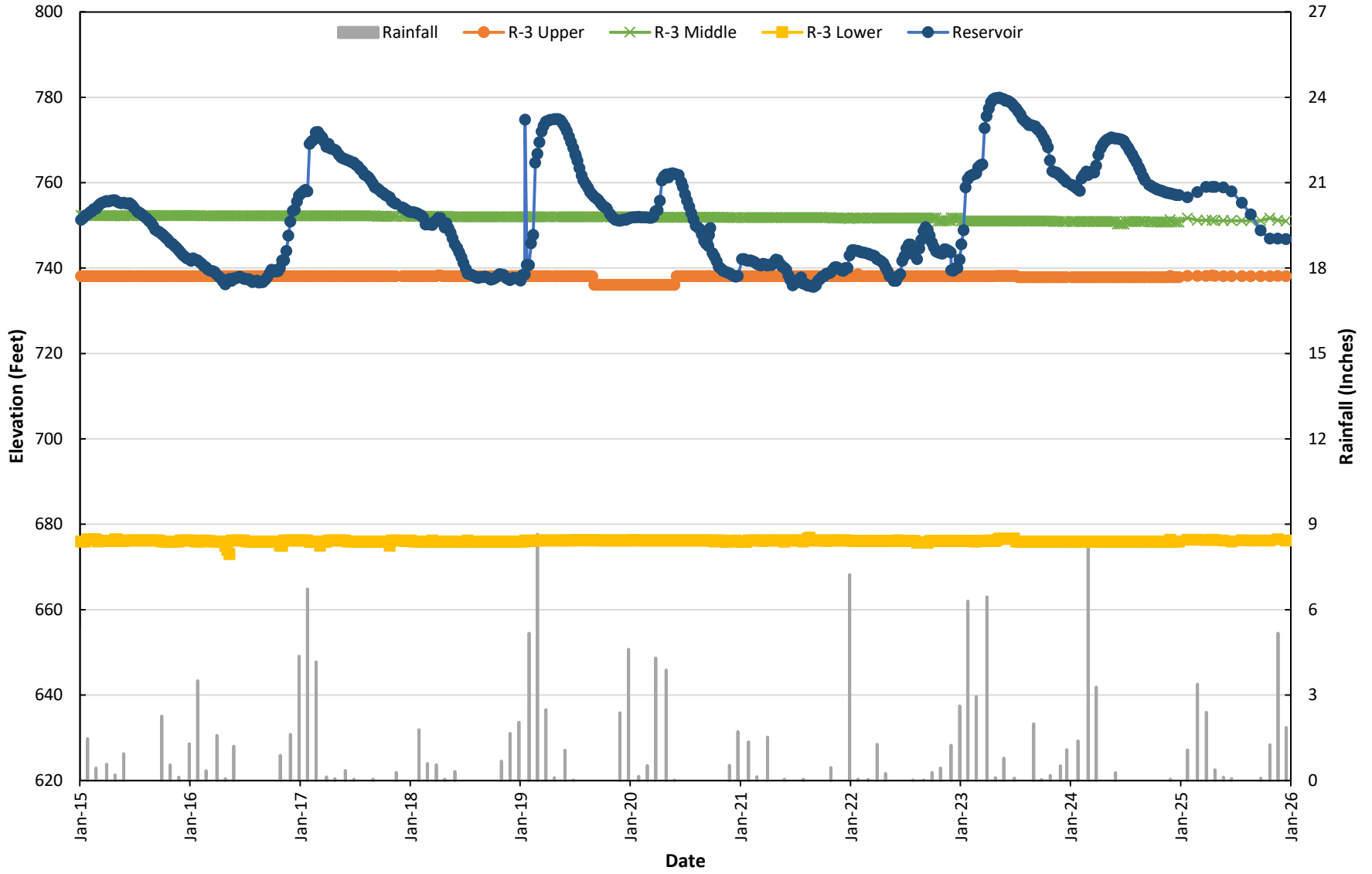


Figure 11
 SANTIAGO CREEK DAM
 HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETER R-6
 JANUARY 2015 THROUGH DECEMBER 2025

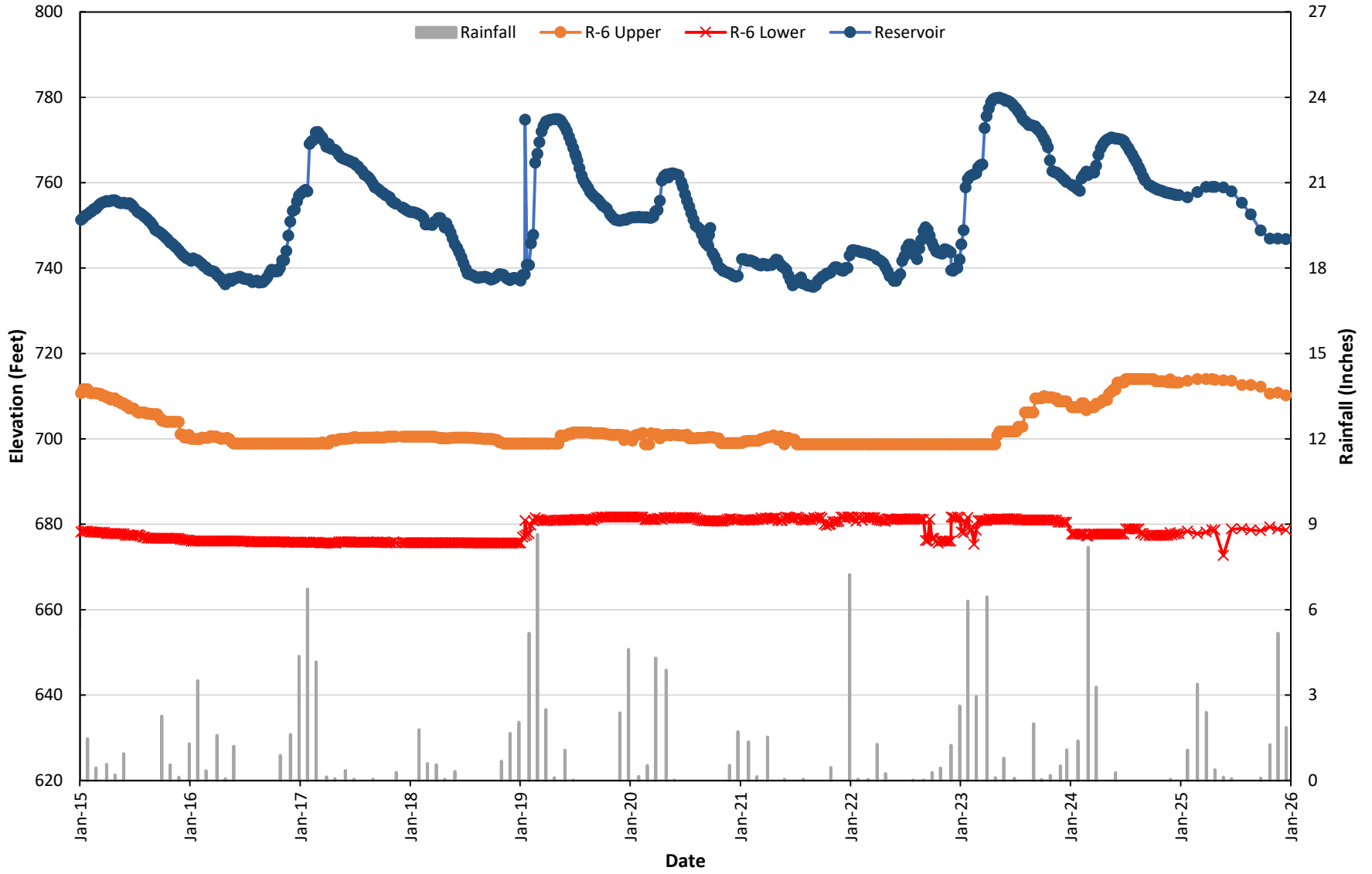


Figure 12
 SANTIAGO CREEK DAM
 HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETERS No. 1, No. 2, AND R-7
 JANUARY 2015 THROUGH DECEMBER 2025

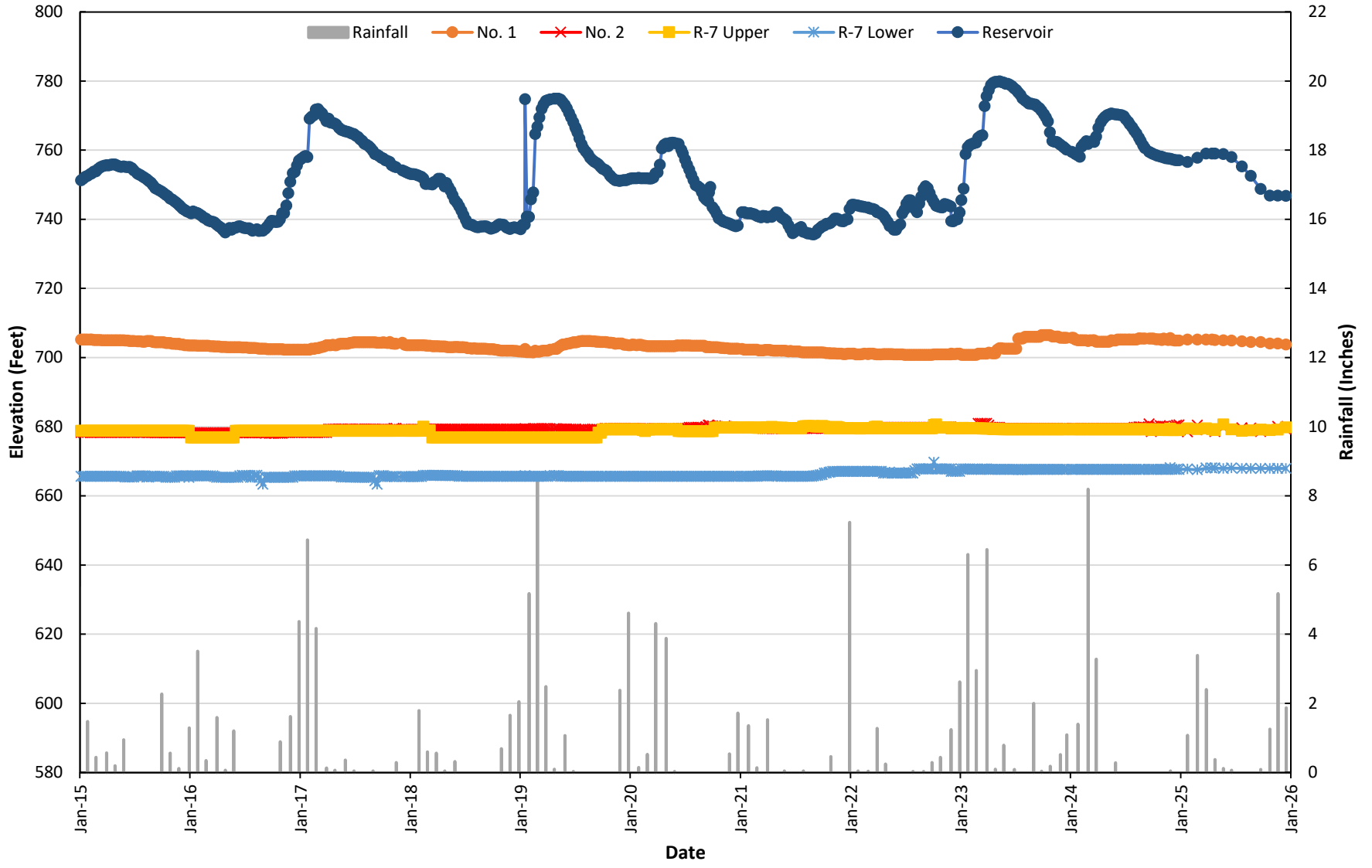


Figure 13
 SANTIAGO CREEK DAM
 HISTORICAL PIEZOMETER AND RESERVOIR WATER SURFACE ELEVATIONS
 PIEZOMETERS No. 3, No. 4, No. 5
 JANUARY 2015 THROUGH DECEMBER 2025

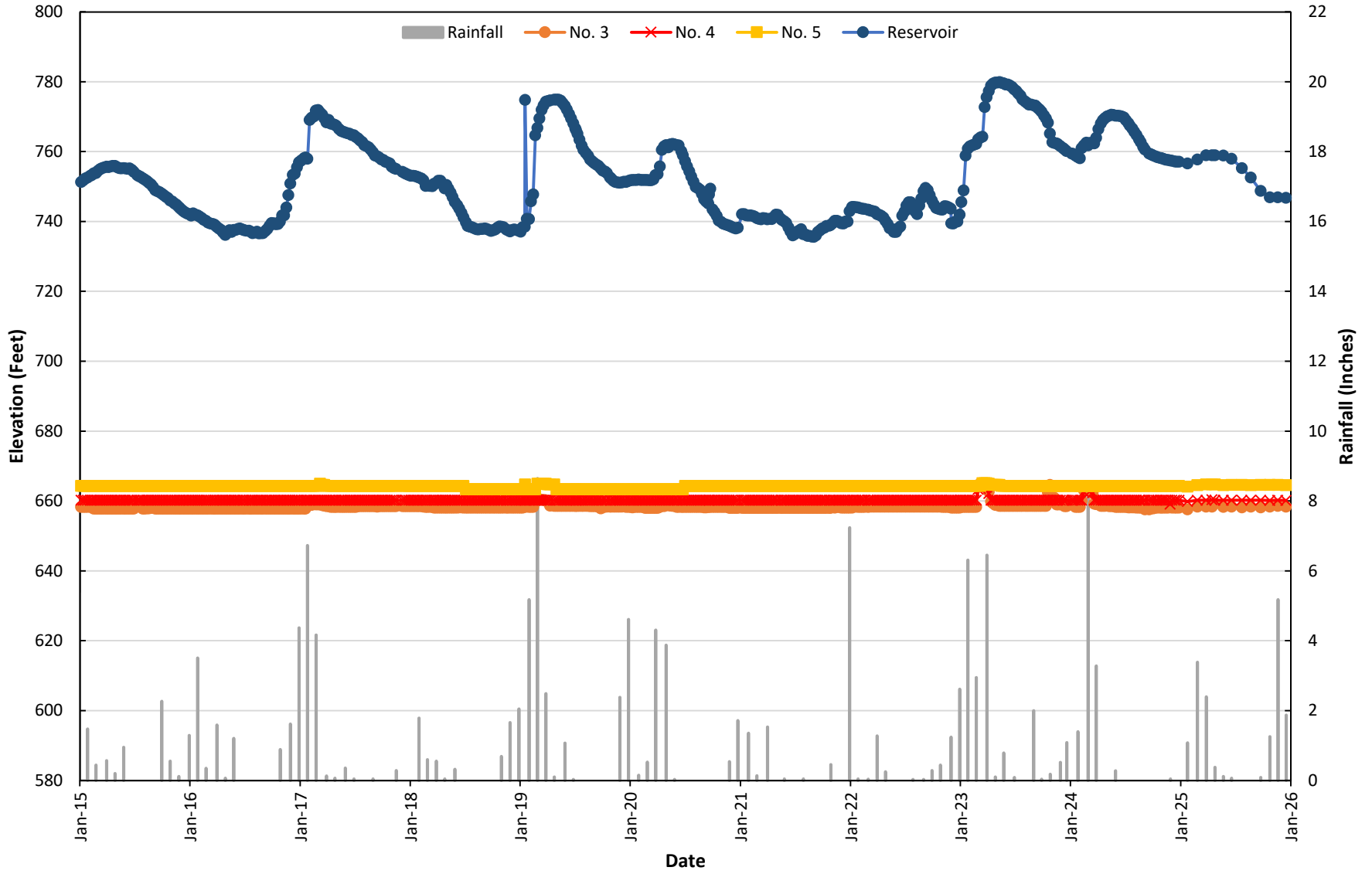


Figure 14
 SANTIAGO CREEK DAM
 SURVEY MONUMENT AND RESERVOIR WATER SURFACE ELEVATIONS
 MONUMENTS BM-1, BM-2, AND BM-3
 1989 THROUGH 2025

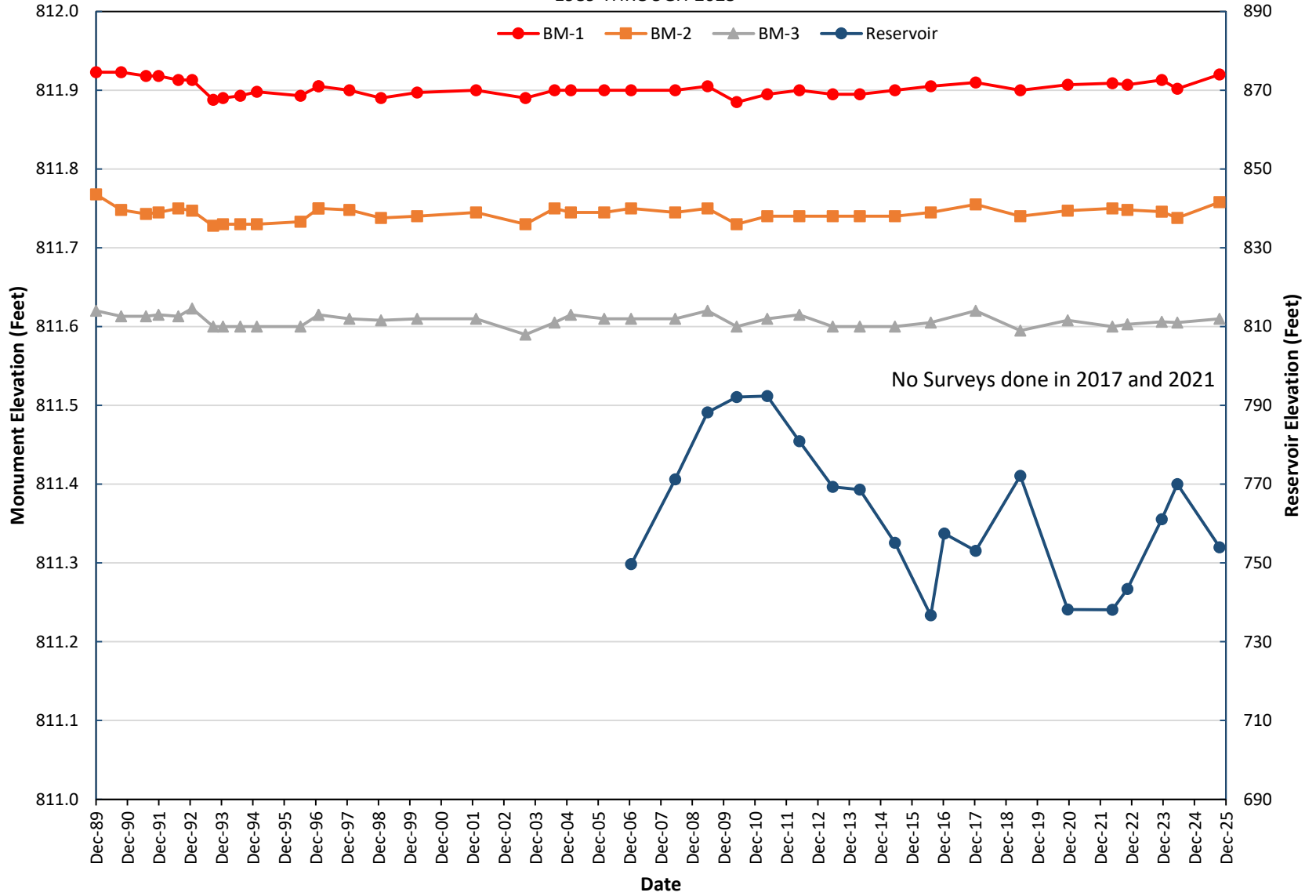


Figure 15
 SANTIAGO CREEK DAM
 SURVEY MONUMENT AND RESERVOIR WATER SURFACE ELEVATIONS
 MONUMENTS BM-4 AND BM-5
 1989 THROUGH 2025

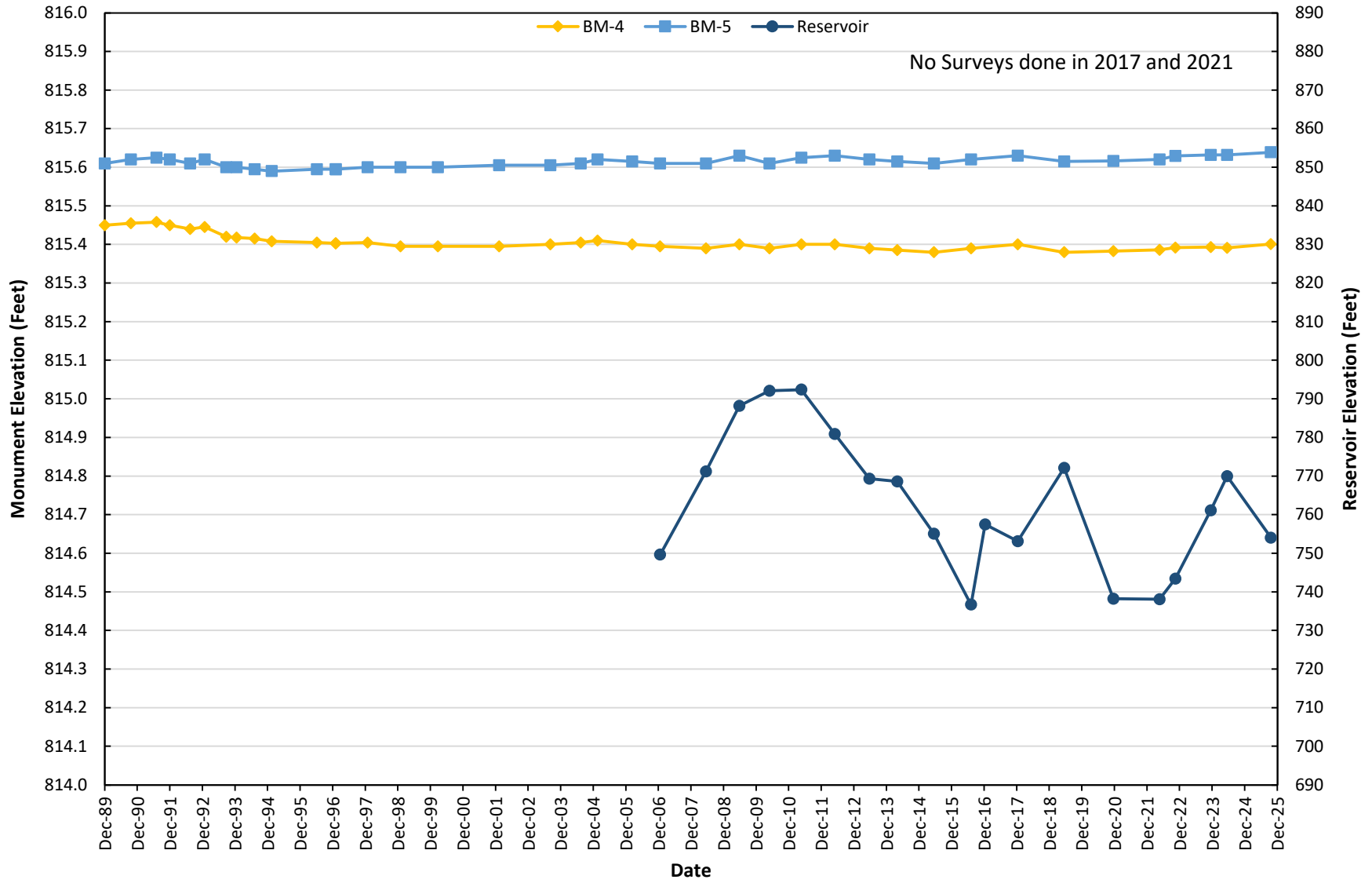


Figure 16
 SANTIAGO CREEK DAM
 NET HORIZONTAL DISPLACEMENTS OF SURVEY MONUMENTS AND RESERVOIR WATER SURFACE ELEVATIONS
 MONUMENTS BM-1, BM-2, BM-3, BM-4, AND BM-5
 IN THE NORTH-SOUTH DIRECTION
 1994 THROUGH 2025

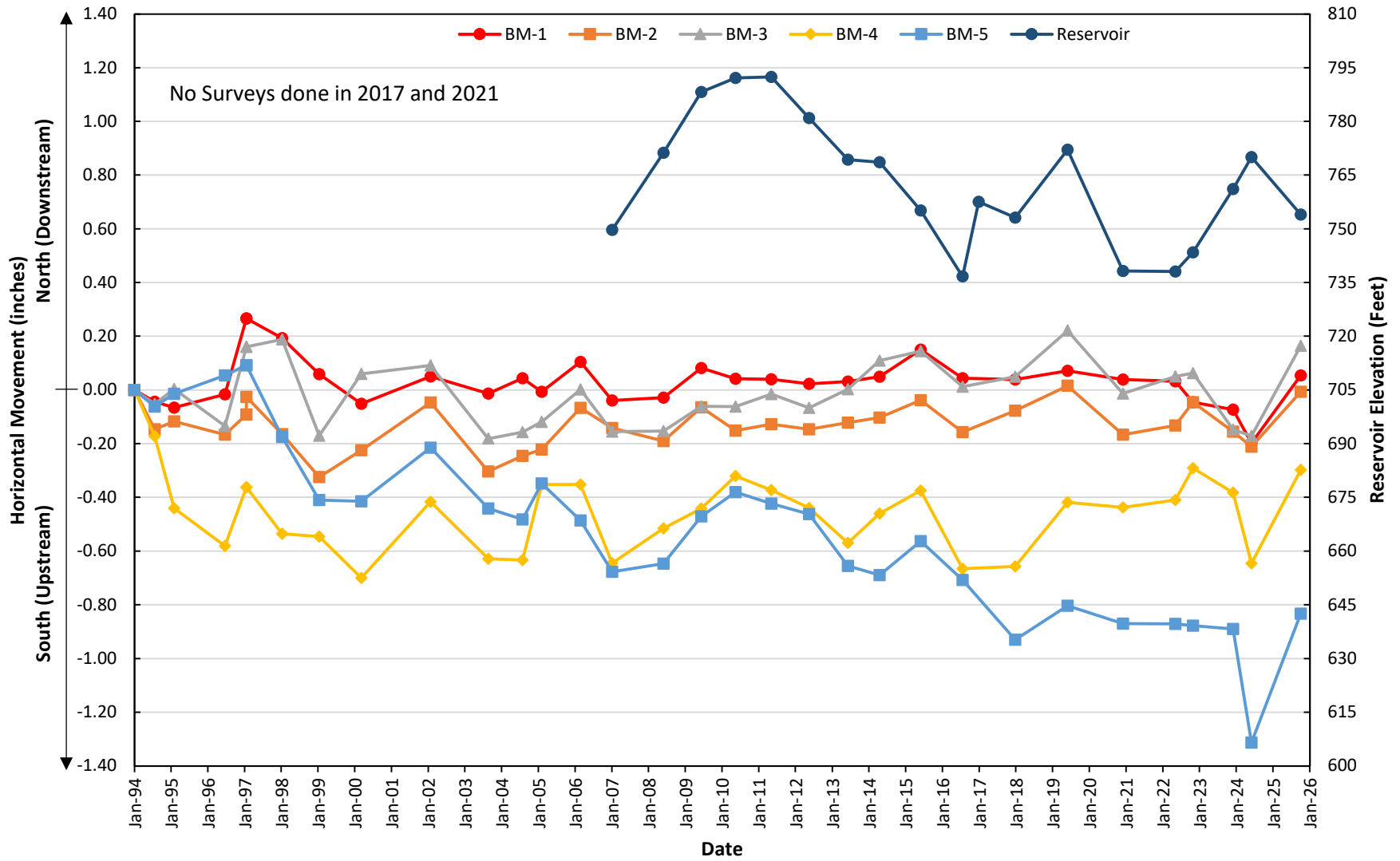
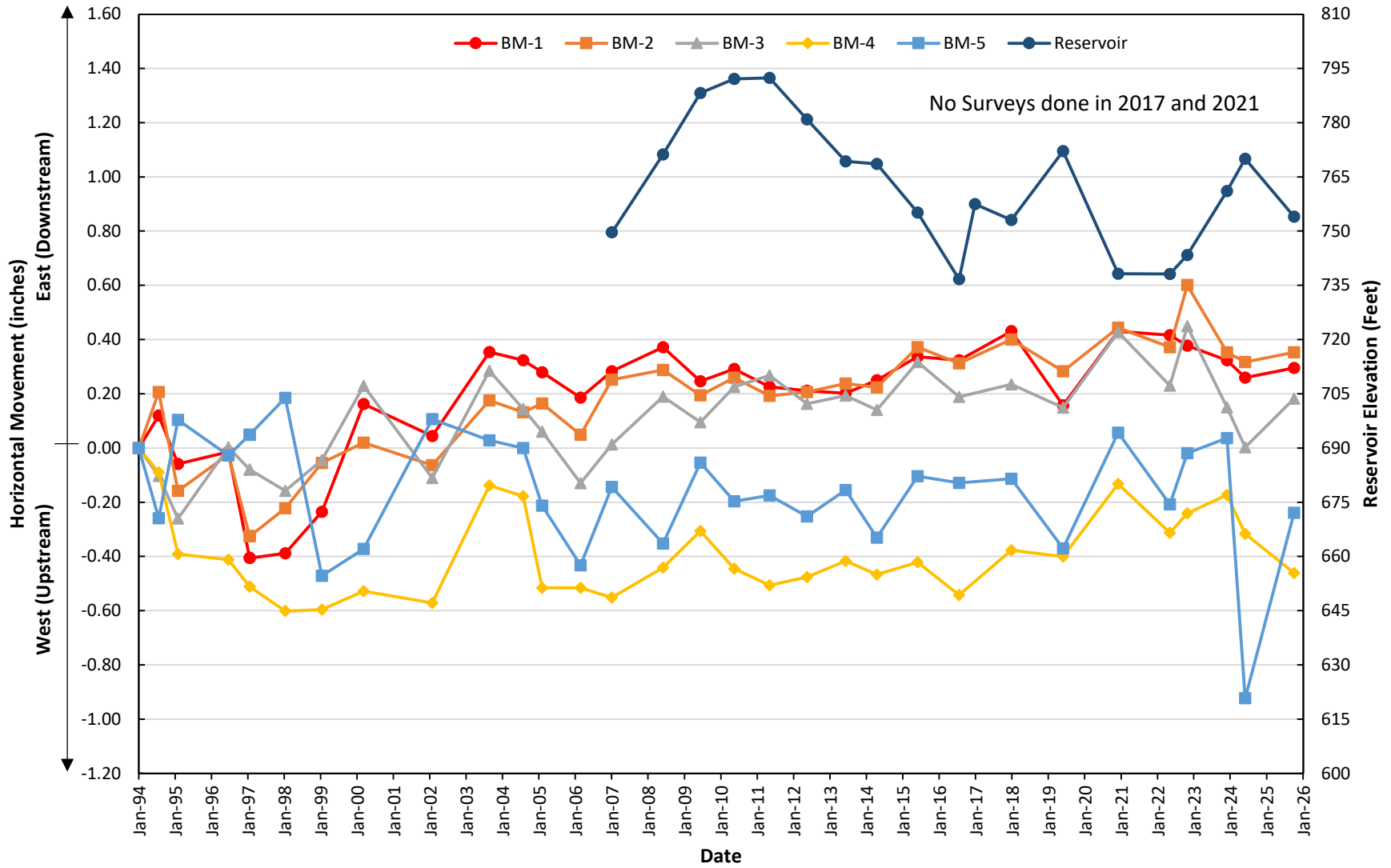


Figure 17
SANTIAGO CREEK DAM
NET HORIZONTAL DISPLACEMENTS OF SURVEY MONUMENTS AND RESERVOIR WATER SURFACE ELEVATIONS
MONUMENTS BM-1, BM-2, BM-3, BM-4, AND BM-5
IN THE EAST-WEST DIRECTION
1994 THROUGH 2025



Appendix A

Inspection Photographs of Santiago Creek Dam – June 16, 2025



Photo 1) Dam crest, upstream face, and downstream face looking towards left abutment.

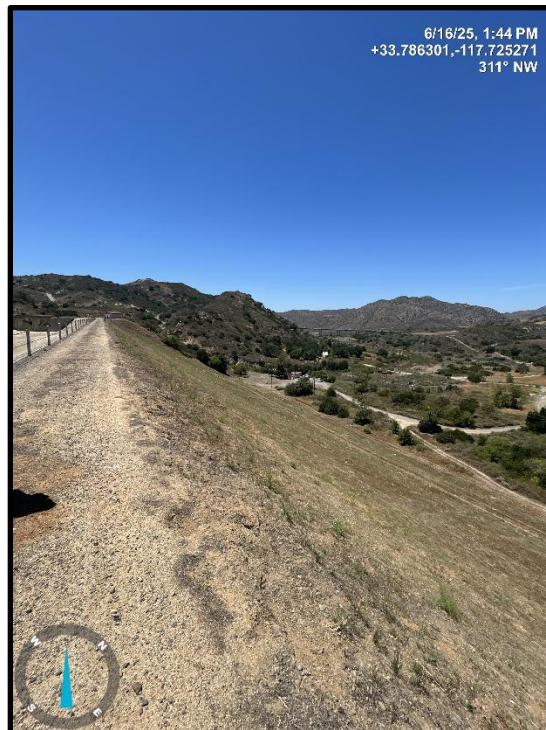


Photo 2) Downstream face looking towards left abutment area from the crest.

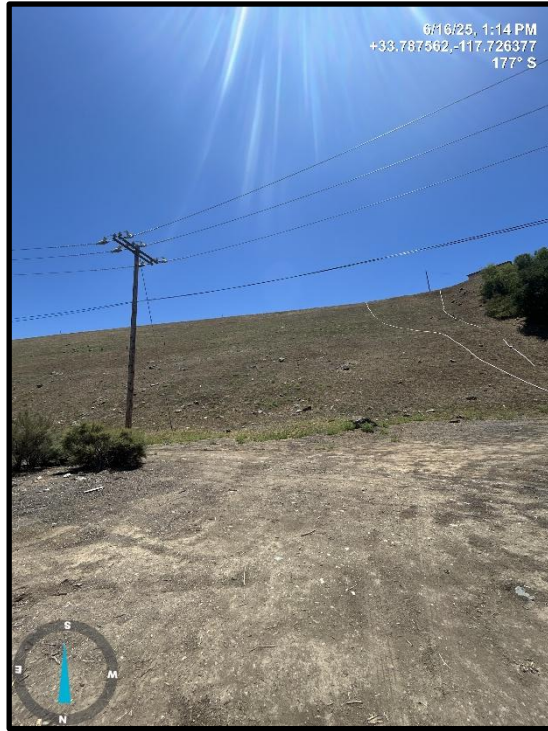


Photo 3) View of downstream face from left downstream toe area.



Photo 4) Downstream face looking towards left abutment.



Photo 5) Downstream face bench looking towards right abutment.



Photo 6) View of downstream face near left abutment area. Note recent vegetation removal.



Photo 7) Upstream face looking towards right abutment. Note minor vegetation in panel joints.

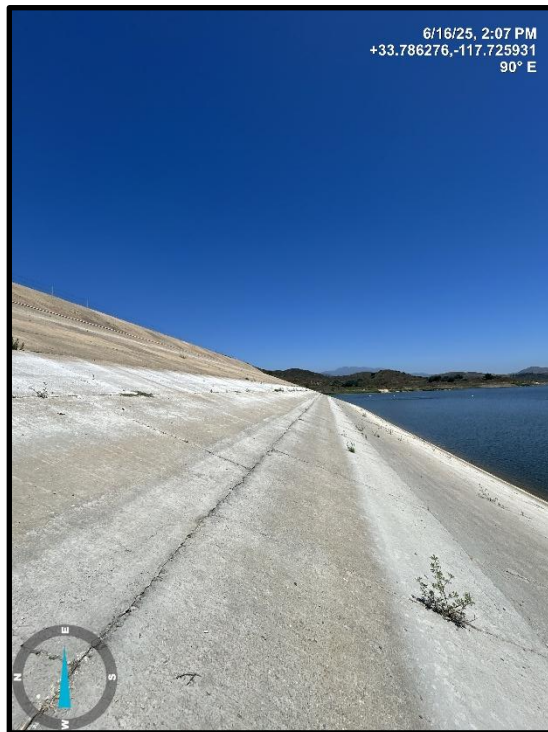


Photo 8) Upstream face looking towards right abutment. Note minor vegetation in panel joints.



Photo 9) View of left abutment from spillway bridge. Note recently cleared sediment..



Photo 10) Concrete patch work on concrete panels. Note outlet tower in background



Photo 11) Concrete patch work on concrete panels.

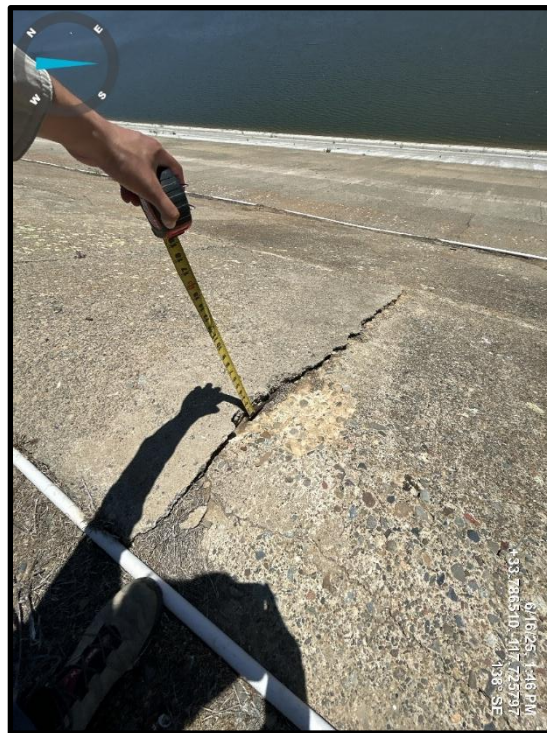


Photo 12) Crack in the upstream concrete liner.



Photo 13) Crack Location 1 along dam crest.



Photo 14) Crack Location 2 along dam crest.

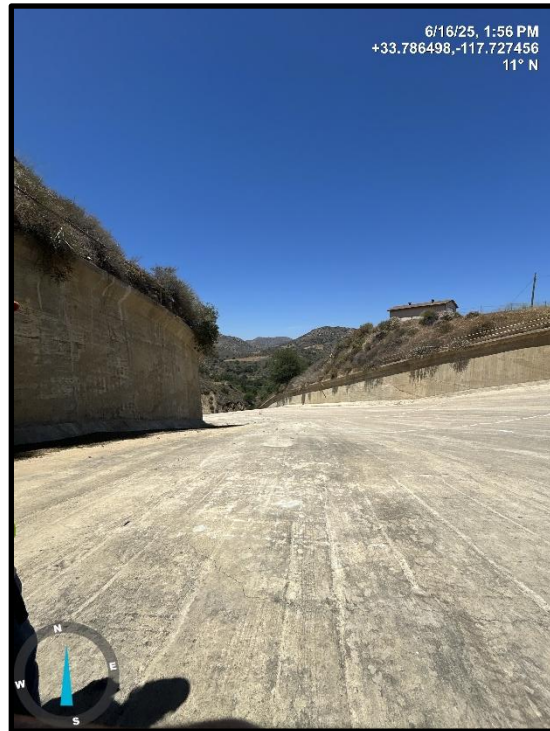


Photo 15) Spillway chute, looking downstream.



Photo 16) Spillway chute and bridge, looking east.



Photo 17) View of spillway flip bucket from right side of spillway channel. Note missing section of concrete wall at the left end of the spillway chute and flip bucket.



Photo 18) Emergency blowoff valve within dissipator structure. Location of exposed rebar shown in red circle.



Photo 19) Concrete spalling within dissipator structure.

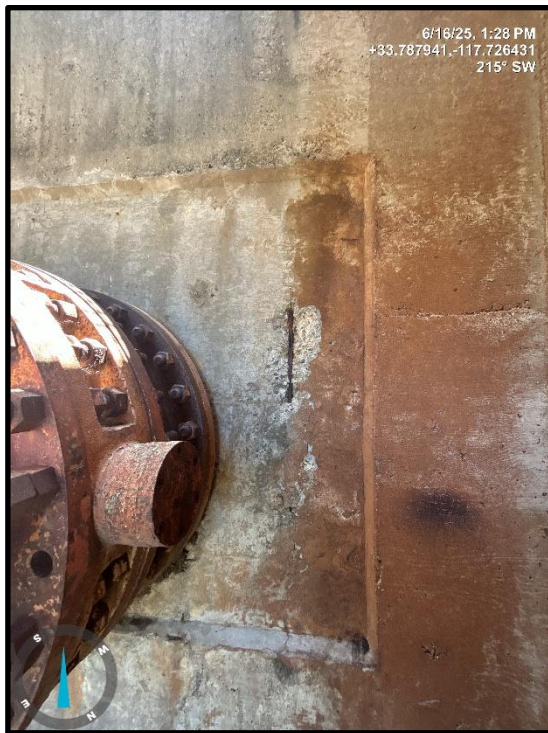


Photo 20) Exposed rebar in dissipator structure.



Photo 21) Concrete outlet tower.

Appendix B

IRWD Dam Outlet Valve Exercising Log



TABLE B-1 IRWD DAM OUTLET VALVE EXERCISING LOG

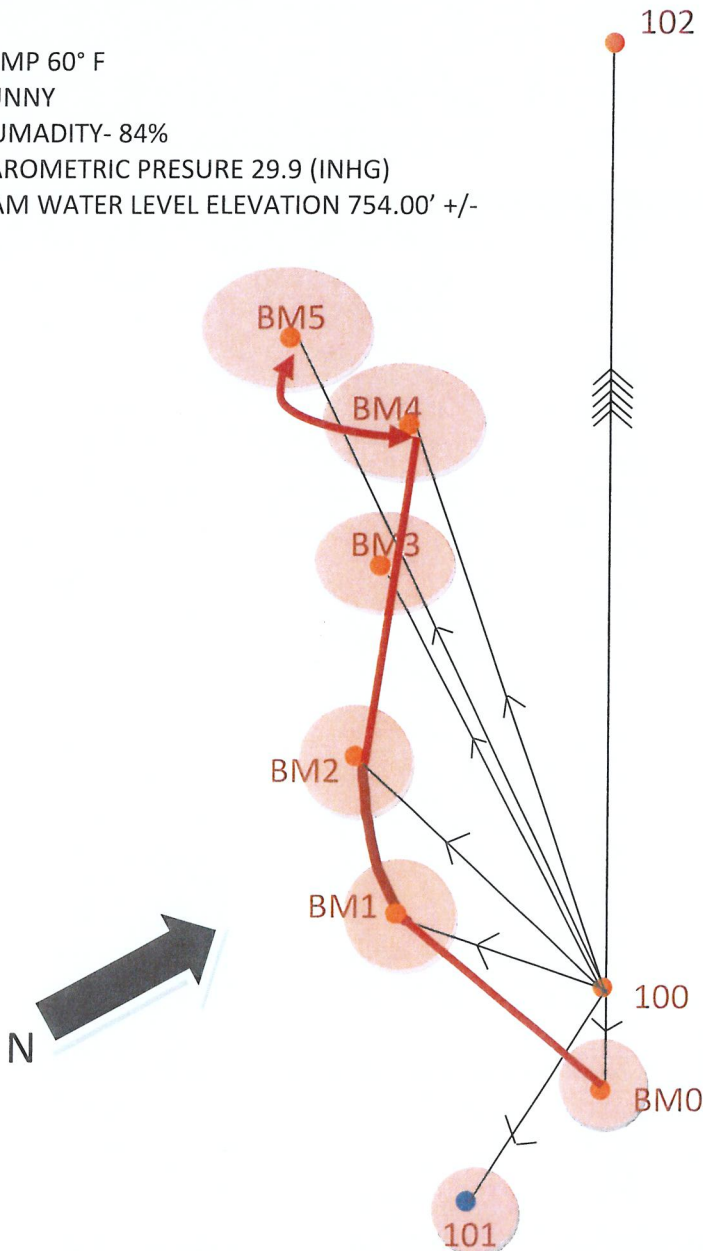
SANTIAGO CREEK DAM VALVE EXERCISING														
DATE	INITIALS	750 HYDRAULIC VALVE TRAVEL TIME (MIN)	740 VALVE # OF TURNS (209)	730 HYDRAULIC VALVE TRAVEL TIME (MIN)	720 VALVE # OF TURNS (209)	ILP VALVE	DIVERTER VALVE # OF TURNS	PUMP HOUSE VALVE # OF TURNS	EMERGENCY FLOW	VALVE (CFS)	TIME (MIN)	TOTAL GALLONS	REASON	COMMENT
1/20/2014		5	212	5	208	30%	93	17				0		
4/22/2014		Exercised	Exercised	Exercised	Exercised	Exercised	Exercised	Exercised				0		
1/15/2015		5	212	5	206	30%	92	17				0		
4/20/2015		Not Turned	Not Turned	Not Turned	206/25%	Not Turned	Not Turned	17				0	DSOD	
10/1/2015		5	212	5	206	Not Turned	Not Turned	Not Turned				0		
4/27/2016							92	17				0		
12/7/2016		5	212	5	204	Not Turned	Not Turned	Not Turned				0		
7/17/2017		5	212	5	205	Not Turned	Not Turned	Not Turned				0		
5/3/2018		5	203	5	204	30%	93	17				0	DSOD	
5/21/2019		5	203	5	204	Not Turned	Not Turned	Not Turned				0	DSOD	
6/4/2020		5	203	5	204	Not Turned	Not Turned	Not Turned				0	DSOD	
3/24/2021		5	203	5	206	30%	93	17				0		
5/18/2022		5	203	5	206	30%	93	17				0		
6/14/2022		5	203	5	206	92	92	17				0	DSOD	
12/14/2022		5	206	5	206	92	92	17				0		
2/23/2023		N/A	N/A	N/A	N/A	N/A	92	17	200			0		
2/28/2023		N/A	N/A	N/A	N/A	N/A	92	17	0			0		
3/3/2023		N/A	N/A	N/A	N/A	N/A	92	17	200			0		
3/13/2023		N/A	N/A	N/A	N/A	N/A	92	17	0			0		
3/20/2023		N/A	N/A	N/A	N/A	N/A	92	17	200			0		
3/31/2023		N/A	N/A	N/A	N/A	N/A	92	17	0			0		
8/1/2023		5	206	5	206	92	92	17				0		
3/26/2024	SS	5 Open	206 Open	5 Open	206 Open	92	92	17	0			0	DSOD	
5/6/2025	SH,AL,NP	5 Open	203 Open	5 Open	203 Open	92	93	17	0			0	DSOD	Hydraulic leak
												0		
												0		

Appendix C

GUIDA Survey Report

WEATHER CONDITIONS:

TEMP 60° F
 SUNNY
 HUMADITY- 84%
 BAROMETRIC PRESURE 29.9 (INHG)
 DAM WATER LEVEL ELEVATION 754.00' +/-



BM0	4875.168	4987.437	PIPE CONCRETE CASING
BM1	5251.564	4711.806	PIPE CONCRETE CASING
BM2	5544.931	4597.165	PIPE CONCRETE CASING
BM3	5892.239	4555.735	PIPE CONCRETE CASING
BM4	6204.541	4455.158	BAR TOP OF WALL
BM5	6327.729	4332.909	BAR TOP OF WALL
100	5000.000	5000.000	2" IP BRASS NAIL
101	4729.468	4845.856	1" IP BRASS NAIL
102	6505.110	5000.000	2" BD OCS MONUMENT

GUIDA JOB



CREW: J. GROEN/ R. GUIDA

NUMBER: 0123-02577

PROJECT NAME: IRWD ANNUAL DAM MONITORING

CLIENT NAME: IRWD

PROJECT LOCATION: IRVINE LAKE SANTIAGO DAM

INSTRUMENT S/N: D1N1 759095 WEATHER SUNNY PRESSURE 29.9 TEMP 60° F

STATION	BS	HI	FS	ELEV	ADJUSTED ELEVATION	DESCRIPTION/NOTES
BM0					830.540	
	0.890	831.430				
TP1			11.343	820.087	820.087	
	0.636	820.724				
100			10.213	810.510	810.509	2" IP WITH BRASS NAIL
	7.017	817.527				
BM1			5.607	811.921	811.920	PIPE CONCRETE CASING
	5.274	817.195				
BM2			5.436	811.759	811.758	PIPE CONCRETE CASING
	4.813	816.571				
BM3			4.954	811.612	811.610	PIPE CONCRETE CASING
	5.108	816.725				
BM4			1.321	815.405	815.403	PIPE CONCRETE CASING
	1.519	816.924				
BM5			1.282	815.642	815.639	BAR ON TOP OF WALL
	1.229	816.871				
BM4			1.468	815.404	815.401	
	1.395	816.799				
BM3			5.183	811.616	811.613	
	4.942	816.557				
BM2			4.801	811.756	811.753	
	5.573	817.329				
BM1			5.409	811.920	811.916	
	6.024	817.944				
100			7.428	810.516	810.512	
	11.955	822.470				
TURN1			2.378	820.093	820.088	
	12.354	832.447				

Appendix D

Instrumentation Maintenance

June 20, 2023

Project No. 469-IRW

Serrano Water District
18021 Lincoln Street
Villa Park, CA 92861

Attention: Mr. Jerry Vilander
General Manager

Subject: Summary Letter of Results
Maintenance Cleaning of Selected Piezometers at Santiago Creek Dam
DSOD Dam No. 75-000, Orange County, California

Dear Mr. Vilander:

GENTERRA Consultants, Inc. (GENTERRA) is pleased to submit this summary letter of results to the Serrano Water District (District), which contains a description of the maintenance cleaning of three (3) piezometers at Santiago Creek Dam. The three (3) piezometers are identified as R-5 Lower, R-7 Upper and R-3 Middle. The work described in this summary letter was performed as described in the proposal for “Maintenance Cleaning of Selected Piezometers at Santiago Creek Dam”, dated October 6, 2022, that had been prepared by GENTERRA at the District’s request and as approved by the District through Purchase Order No. 14782, dated October 13, 2022.

BACKGROUND

Maintenance cleaning had been performed by the District in July 2015 and by GENTERRA in February 2018 for Piezometers R-5 Lower, and R-7 Upper by GENTERRA. GENTERRA is not aware of any previous maintenance cleaning performed for Piezometer R-3 Middle. The District has contacted GENTERRA believing there is evidence to suggest that all three (3) selected piezometers currently appear to be blocked and are in need of maintenance cleaning.

There are two areas within a piezometer where blockage can occur: (1) at the tip of the piezometer, or (2) within the standpipe portion of the piezometer, typically at a joint. Blockage at the tip of the piezometer is often caused by pore water pressure in the surrounding soil forcing fine-grained materials into the filter pack around the bottom portion of the piezometer, which creates a seal that prevents water from flowing freely into and out of the piezometer itself. Blockage within the standpipe portion of the piezometer is often caused by pore water pressure in the surrounding soil forcing fine-grained materials through the joints in the piezometer and forming a blockage in the standpipe.

WORK PERFORMED

GENTERRA started this project by performing a review of the layout of Piezometers R-5 Lower, R-7 Upper, and R-3 Middle at Santiago Creek Dam. This involved reviewing the piezometer details, including the total depth of the piezometer, the elevations of the top and tip of the piezometer, the elevation of the screened portion(s) of the piezometer, and the geologic and groundwater conditions surrounding the piezometer.

Following the completion of the review of the available information, GENTERRA field personnel Kristina Mohos and J. Will Kulikowski were on-site on October 19 and 20, 2022 to perform the bailing and flushing of the three piezometers at the dam. Two members of the Serrano Water District were on-site on October 19, 2022, to observe the beginning of the cleaning operation. The process included the following steps:

1. Initial water level within the standpipe and depth to bottom of standpipe or blockage level were measured at each piezometer; also, the reservoir water level was observed and documented.
2. Bailing to remove any of the existing water out of the piezometer and loosening or unblocking of any potential blockage in the piezometer. Removing the water and clearing any blockage enabled access to the entire inside of the piezometer, including the screened portion which was cleaned during the flushing of the piezometer. Photograph 1 shows the type of bailer that was used to remove the water from the piezometer.



Photograph 1: View of a small diameter stainless steel bailer used for bailing.

3. After bailing the piezometer multiple times to remove all water, the next step was to flush the piezometer. This consisted of sending clean water using a small tube to the bottom or blockage location and allow the water to loosen the blockage and carry away sediments and solids that may have settled at the bottom of the piezometer. This flushing method is repeated multiple times. This process also helped to remove any build-up of debris or fine-grained materials in the screened (perforated) portion of the piezometer, which may have prevented water from freely flowing into and out of the piezometer. Photograph 2, which was taken during the piezometer cleaning field work at Santiago Creek Dam, shows an example of the flushing process at one of the piezometers, R-3 Middle.



Photograph 2: View of flushing process being performed in Piezometer R-3 Middle at Santiago Creek Dam.

4. Upon completion of the flushing and bailing of the piezometer, the depth to water level and the depth to the bottom of the standpipe were obtained using a water-level meter. The piezometer was then given time to recharge and additional measurements of the depth to water were taken to monitor the recharge. Photograph 3, which was taken during the piezometer cleaning field work at Santiago Creek Dam, shows the water-level meter being used for measuring depth to water levels at one of the piezometers, R-3 Middle.



Photograph 3: View of water level meter used to take readings in Piezometer R-3 Middle at Santiago Creek Dam.

DETAILS OF PIEZOMETERS AND OBSERVATIONS AT SANTIAGO CREEK DAM DURING CLEANING

The reservoir water surface elevation was at 743.7 feet (NAVD 1988) at Santiago Creek Dam on October 19, 2022. The following sections provide information about the three (3) piezometers and observations made during the maintenance cleaning of Piezometers R-5 Lower, R-7 Upper, and R-3 Middle.

Piezometer R-5 Lower

Piezometers R-5 Lower and R-5 Upper had been installed within the same well cover and are located on the downstream bench of the dam at approximate Station 6+00. At Piezometer R-5 Lower, the top elevation is 751.93 feet, and the tip elevation is 654.43 feet, resulting in a total depth of 97.50 feet. The tip is situated within the bedrock. For Piezometer R-5 Upper, the top elevation is 751.92 feet, and the tip elevation is 676.92 feet, resulting in a total depth of 75.00 feet. The tip is situated within the alluvium. The standpipes for both piezometers are one-inch-diameter PVC (Photograph 4).

Historical depth to water level readings in Piezometer R-5 Lower were around 81 feet.

The initial water level reading was measured to be “dry”, with a depth to bottom reading of 73.7 feet. While attempting to bail out the piezometer after flushing with clean water, the small diameter bailer was not able to be lowered completely because of partial blockage or bend in the standpipe of the piezometer at a depth of about 2.5-3 feet. Multiple unsuccessful attempts were made. The piezometer was flushed several times with clean water. Accumulations of dead bugs and sediment were removed from Piezometer R-5 Lower during the maintenance cleaning operation. Water had drained quickly through the piezometer and was reported “dry” at the end of the first day. The cleaning process was performed several times the next day on October 20, 2022. The water level in this piezometer, which was taken near the end of the second day on October 20, 2022, had drained quickly to “dry” and the bottom reading was lowered to a depth of 74.3 feet.

GENTERRA attempted to clean Piezometer R-5 Lower. GENTERRA believes that this maintenance cleaning was not successful to restore the functionality of Piezometer R-5 Lower. Since the water that was added into the standpipe drained quickly while there was a significant amount of sediment inside the standpipe, GENTERRA believes that added water was leaking through bad joint(s) or a broken standpipe. Based on an existing bend in the standpipe and a significant amount of accumulated sediment inside the standpipe, it would be very challenging to remove accumulated sediment to restore the full functionality of this piezometer. The District should consider abandoning this piezometer but it would be very difficult perform that process due to the presence of Piezometer R-5 Upper located on the same borehole. Alternatively, the District can stop taking readings from Piezometer R-5 Lower to avoid misleading data.



Photograph 4: View of 1-inch diameter PVC Standpipe Piezometers R-5 Lower and R-5 Upper.

Piezometer R-7 Upper

Piezometers R-7 Upper and R-7 Lower had been installed within the same well cover and are located on the downstream bench of the dam near approximate Station 3+50. At Piezometer R-7 Upper, the top elevation is 754.36 feet, and the tip elevation is 677.20 feet, resulting in a total depth of 77.16 feet. The tip is situated within the downstream pervious shell material. At Piezometer R-7 Lower, the top elevation is 754.37 feet, and the tip elevation is 664.70 feet, resulting in a total depth of 89.67 feet. The tip is situated within the alluvium. The standpipes for both piezometers are one-inch-diameter PVC.

Field work for this project was carried out on October 19 and 20, 2022. The initial water level reading was measured to be “dry”, with a depth to bottom reading of 73.2 feet. Accumulations of dead bugs and sediment were removed from Piezometer R-7 Upper during the maintenance cleaning operation (Photograph 5). Water drained quickly through the piezometer and was reported “dry” at the end of the first day. The cleaning process was performed several times the next day on October 20, 2022. The water level in this piezometer, which was taken near the end of the second day on October 20, 2022, had drained quickly to “dry” and the bottom reading was lowered to a depth of 75.2 feet.

GENTERRA attempted to clean the Piezometer R-7 Upper, but it is possible that the top of the slotted section was not reached during the cleaning process. Considering we were able to remove part of the sediment that was built up at the bottom using time allocated for the cleaning, another cleaning could be performed to attempt to clear the perforated (slotted) portion of the piezometer. In the meantime, both the depth to bottom and water level readings measured in Piezometer R-7 Upper should be monitored over the next several months to evaluate any difference in the piezometer’s performance. Since the water that was added into the standpipe after removal of dead bugs and sediment drained very quickly and reached the dry condition, GENTERRA believes that this cleaning is reasonably successful to restore the functionality of Piezometer R-7 Upper. Considering that this Piezometer R-7 Upper has been historically dry, GENTERRA believes that this Piezometer R-7 Upper will remain predominantly dry during normal operation of the reservoir. If the reservoir level reaches a previously reported historic high water level elevation of 794.2 feet, then the water level in this Piezometer R-7 Upper can rise up to an elevation of 682 feet.



Photograph 5: View of flushing with clean water at Piezometer R-7 Upper.

Piezometer R-3 Middle

Piezometers R-3 Upper, R-3 Middle and R-3 Lower had been installed within the same well cover and located along the crest of the dam near approximate Station 9+50. At Piezometer R-3 Middle, the top elevation is 812.03 feet, and the tip elevation is 690.03 feet, resulting in a total depth of 122 feet. The tip is situated within the alluvium. Piezometer R-3 Upper is situated in terrace materials and Piezometer R-3 Lower is situated within bedrock. The standpipes for all three piezometers are one-inch-diameter PVC (Photograph 6).

Historical depth to water level readings in Piezometer R-3 Middle were around 60 feet. GENTERRA is not aware of any previous maintenance cleaning performed to Piezometer R-3 Middle.



Photograph 6: View of Piezometers R-3 Upper, Middle, and Lower.

The initial water level reading was measured to be 60.0 feet with a depth to bottom reading of 120.4 feet. While attempting to bail out the piezometer, the small diameter bailer was not able to be lowered completely because of partial blockage or bend in the standpipe of the piezometer at a depth of about 3 feet. Multiple unsuccessful attempts occurred. The piezometer was flushed several times with clean water and observed accumulations of dead bugs and sediment being removed from the piezometer. Water had drained very slowly through the piezometer on both days. The water level in this piezometer, which was taken at the end of the second day on October 20, 2022, remained the same at a depth of 60.0 feet while the bottom was lowered to a depth of 120.6 feet.

GENTERRA attempted to clean the Piezometer R-3 Middle. Since the water that was added into the standpipe drained very slowly and the depth to the slotted section of the standpipe is unknown, GENTERRA believes that the slotted section is clogged to some extent. In the meantime, both the depth to bottom and water level readings measured in Piezometer R-3 Middle should be monitored over the next several months to evaluate any difference in the piezometer's performance. If the water level in this Piezometer R-3 Middle does not fluctuate with the reservoir water level changes, then further investigation is needed to determine the source of water that reaches the soil layer where the piezometer tip is located. Considering that the water level in this Piezometer R-3 Middle has been historically at an elevation of about 752 feet, GENTERRA believes that it may remain at about

the same elevation. It may be beneficial to install a new piezometer adjacent to this Piezometer R-3 Middle with same tip elevation as Piezometer R-3 Middle to obtain independent and more reliable data.

CLOSURE

Water level readings in Piezometers R-5 Lower, R-7 Upper and R-3 Middle should be monitored over the next several months to evaluate the effectiveness of the cleaning.

As stated in our proposal for this work, these piezometers may clog again in the future. This is because there is a potential for accumulation of solid materials and/or dead bugs into the standpipes. If additional blockage occurs, the piezometers may have to be bailed and flushed again to improve their functionality. That additional work, if needed, would be discussed and agreed-upon with the District prior to making arrangements to return to the site.

Thank you for allowing us to provide the District with these important services. If you have any questions or need additional information, please contact J. Will Kulikowski, Joseph J. Kulikowski or me with any questions.

Sincerely,
GENTERRA CONSULTANTS, INC.



Somalingam Balachandran, Ph.D., P.E., G.E.
Vice President and Principal Engineer



cc: Mr. Jacob J. Moeder P.E.
Engineering Manager – Dams & Storage
Irvine Ranch Water District
P. O. Box 57000
Irvine, CA 92619-7000

Appendix E

Santiago Creek Dam: Dam Crest Investigation



Figure 1: Aerial of Santiago Creek Dam with approximate dam crest crack locations.

Staff and Mike Smith obtained the following information during the October 17 site visit.

Location 1:

- The crack length is approximately 25-feet long and longitudinal.
- The greatest width is approximately 1/2-inches.
- The depth at the greatest width is approximately 1.5-feet.

Location 2:

- The crack length is approximately 24-feet long and longitudinal.
- The greatest width is approximately 1/4-inches.
- The depth at the greatest width is approximately 8-inches.

Photos from the October 17, 2024 site visit are enclosed as Exhibit “B”. The size (length and width) and location of the crack appears unique compared to other desiccation type crack that staff has seen at other dam site. By way of example, below is a photo of a desiccation type cracks from Sand Canyon Dam that shows a randomness to the pattern.



Figure 2: Sand Canyon Dam desiccation type crack near left groin along golf cart path.

Recommendation:

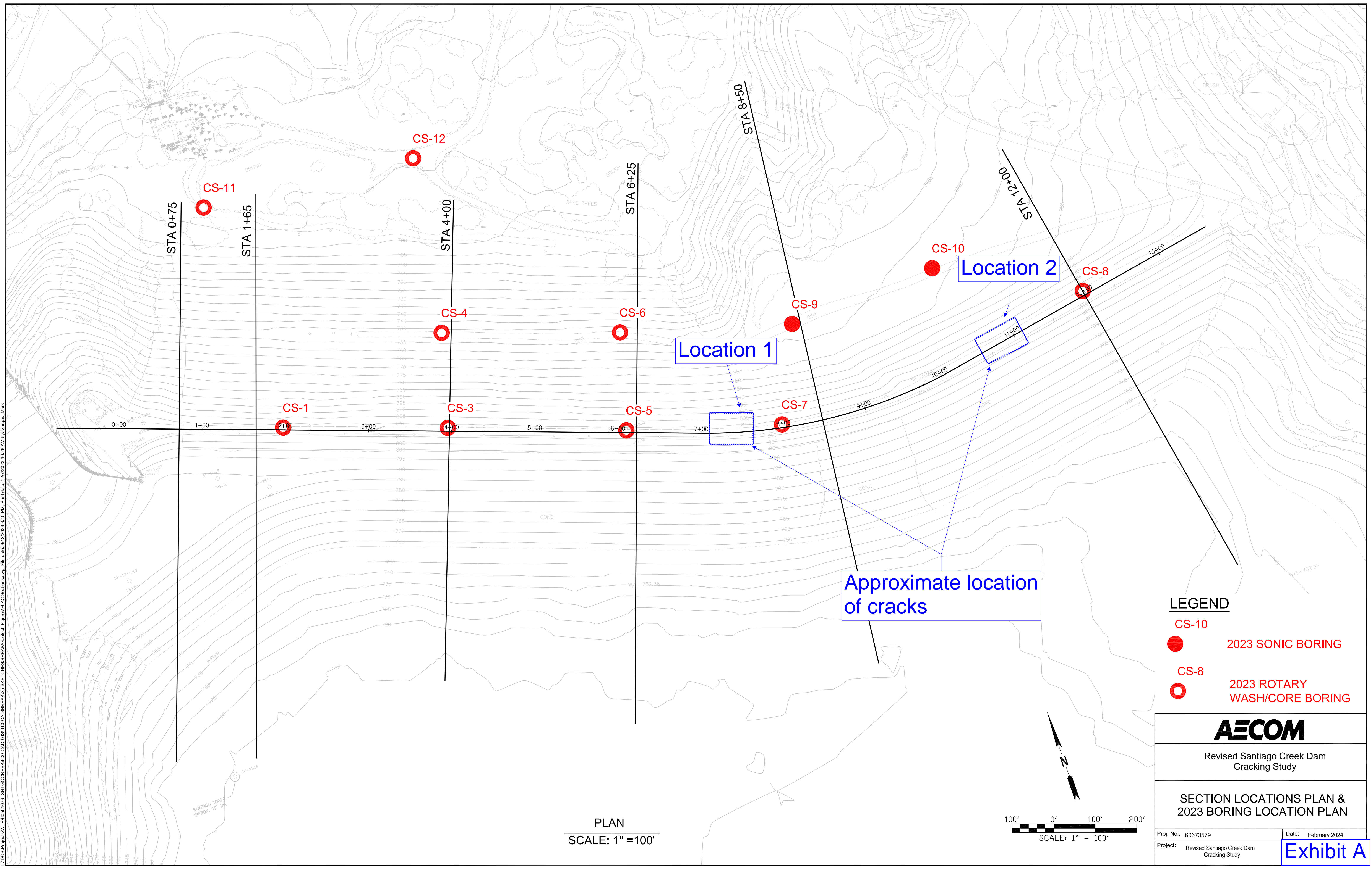
Based on the site assessment staff recommends the following.

- The two crack locations should be regularly monitored. The length, width, and depth should be recorded as part of the monitoring program. Monitoring should occur at least once a month and every two weeks if rain events have occurred within 2-weeks.
- The cracks should be preserved and barricaded to prevent material from entering the cracks.
- The dam crest should be closed to regular vehicle traffic and limited to vehicle access that is required for urgent maintenance or operations.

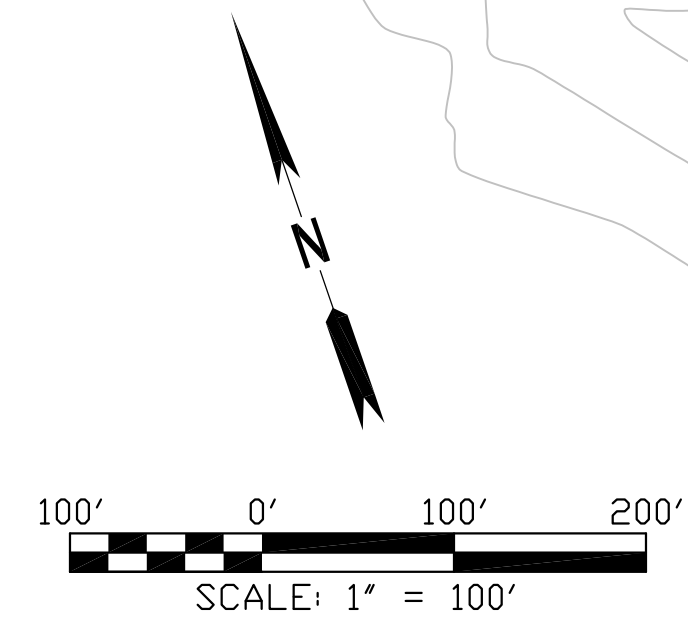
Enclosures:

Exhibit “A” – Section Locations Plan & 2023 Boring Location Plan

Exhibit “B” – Santiago Creek Dam Initial Dam Crest Crack Investigation, Photos from October 17, 2024



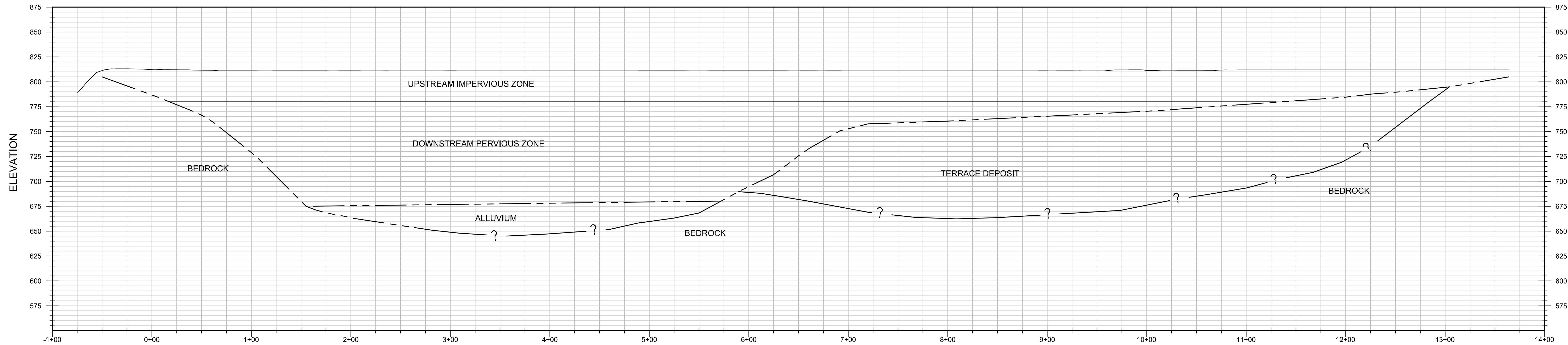
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SCALE: 1" = 100'



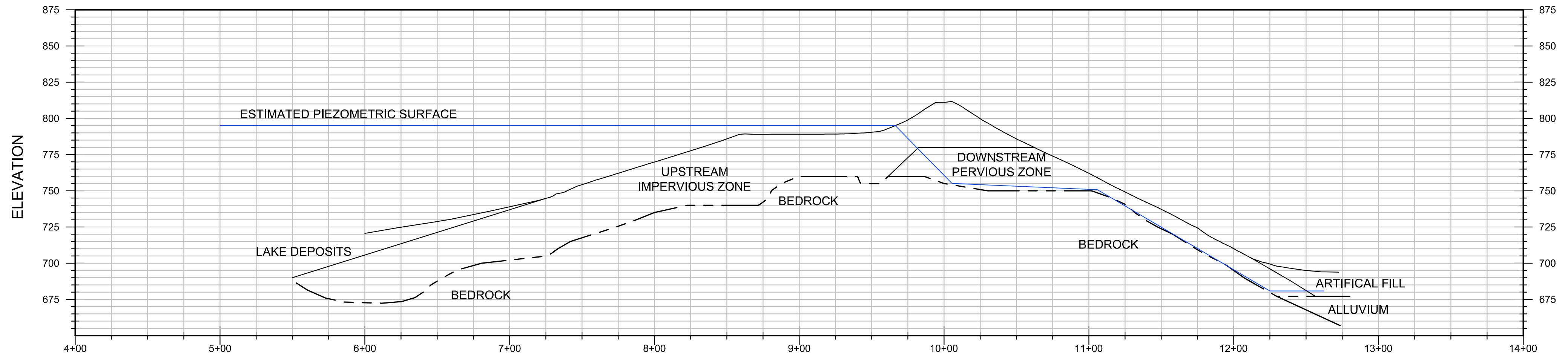
- LEGEND**
- CS-10
● 2023 SONIC BORING
 - CS-8
○ 2023 ROTARY WASH/CORE BORING

AECOM	
Revised Santiago Creek Dam Cracking Study	
SECTION LOCATIONS PLAN & 2023 BORING LOCATION PLAN	
Proj. No.: 60673579	Date: February 2024
Project: Revised Santiago Creek Dam Cracking Study	
Exhibit A	

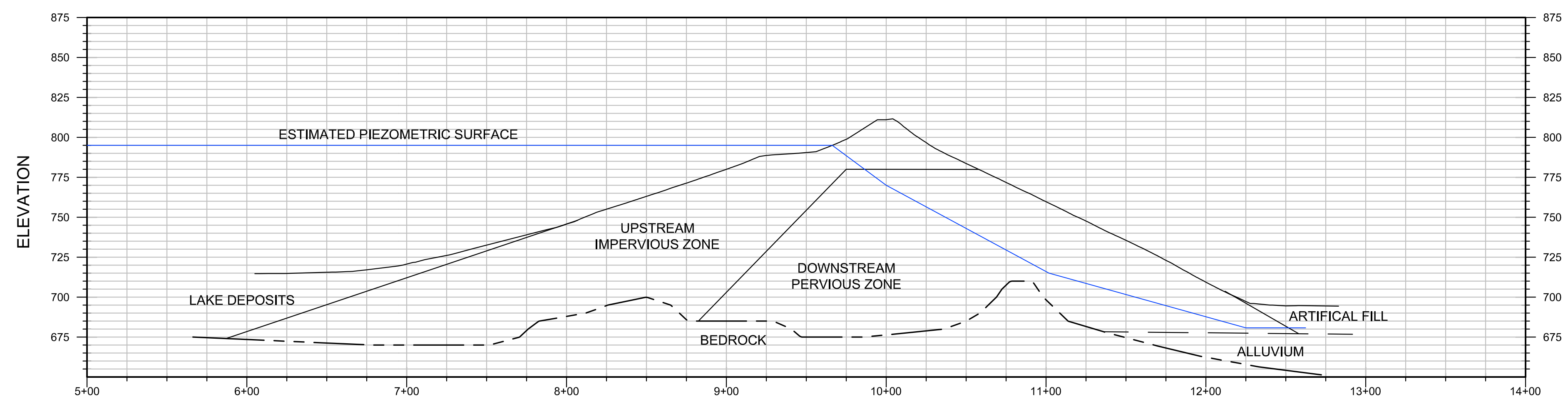
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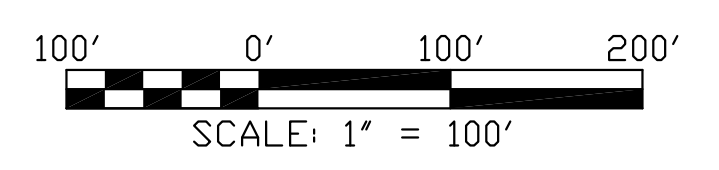
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TRANSVERSE SECTION STATION 0+75
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TRANSVERSE SECTION STATION 1+65
SCALE: 1"=100'

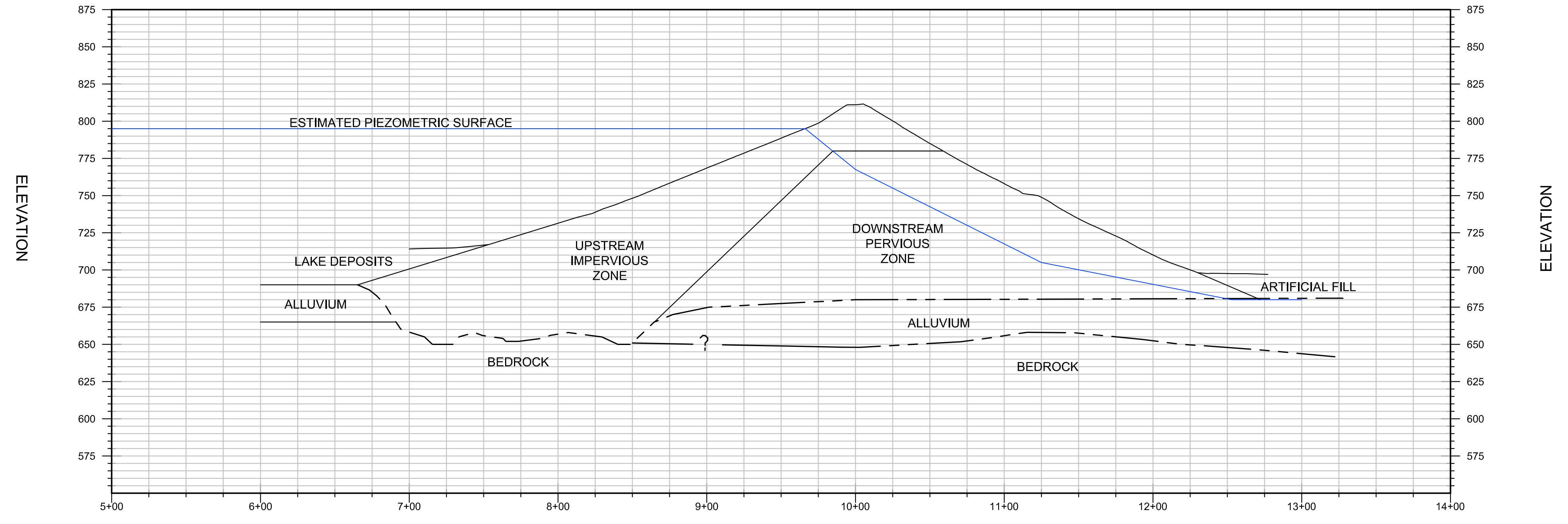


Revised Santiago Creek Dam
Cracking Study

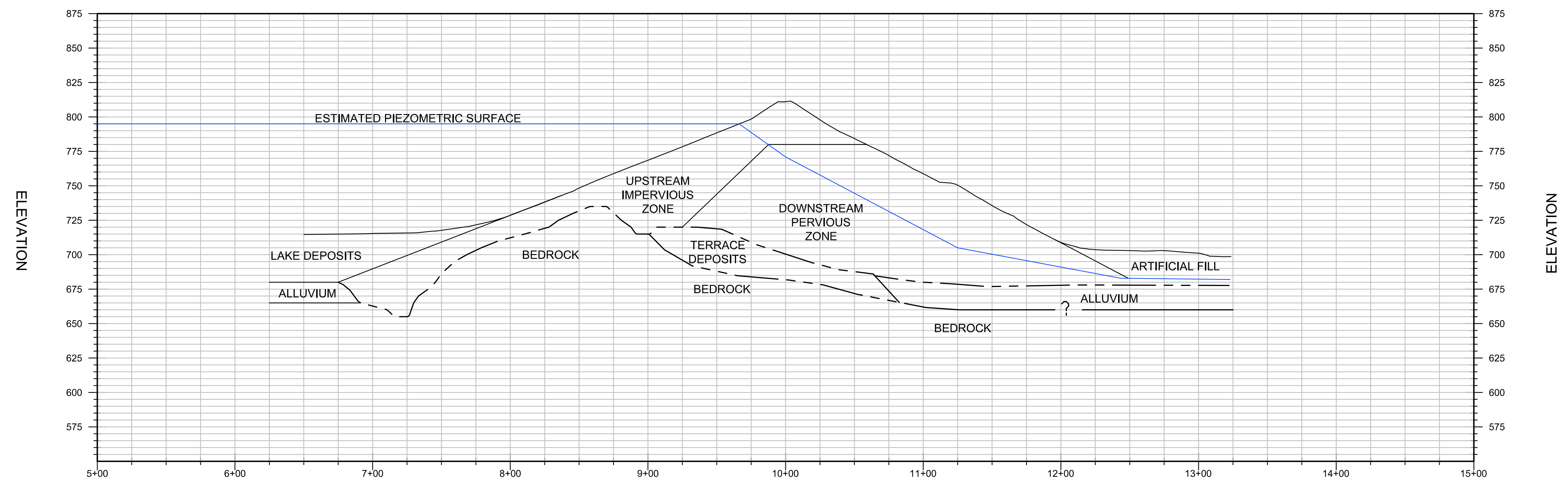
LONGITUDINAL SECTION AND
TRANSVERSE SECTION
STATION 0+75 & 1+65

Proj. No.: 60673579	Date: February 2024
Project: Revised Santiago Creek Dam Cracking Study	Figure: 4-2

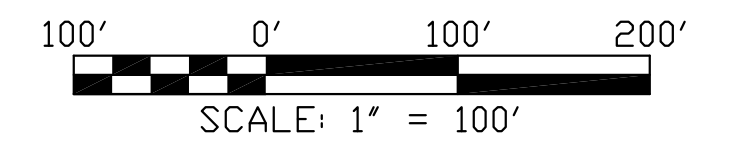
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TRANSVERSE SECTION STATION 4+00
SCALE: 1"=100'



TRANSVERSE SECTION STATION 6+25
SCALE: 1"=100'



AECOM

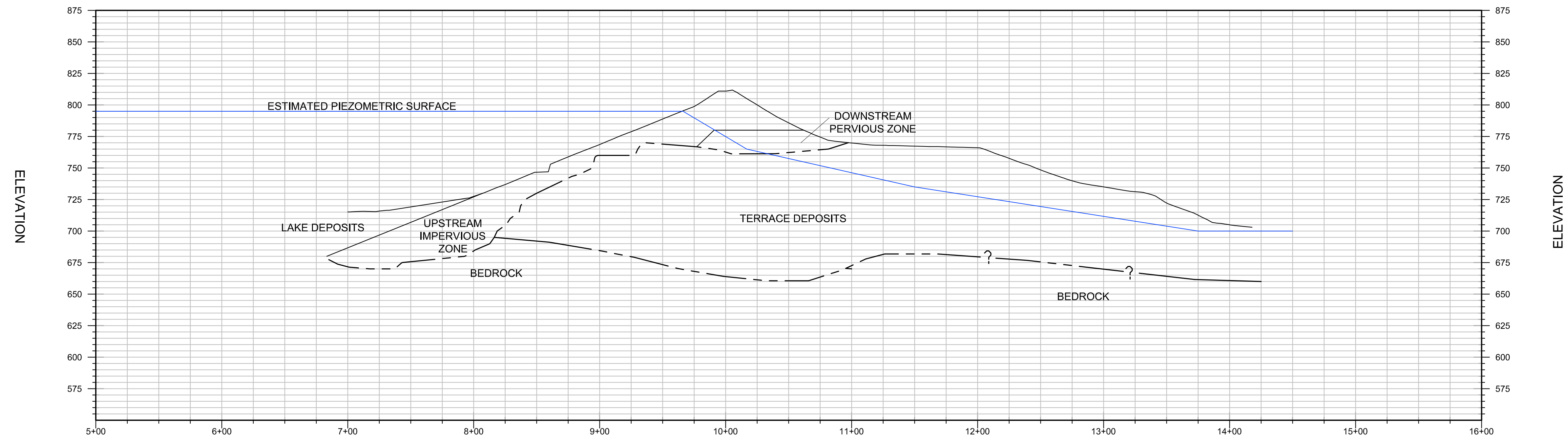
Revised Santiago Creek Dam
Cracking Study

TRANSVERSE SECTIONS
STATIONS 4+00 & 6+25

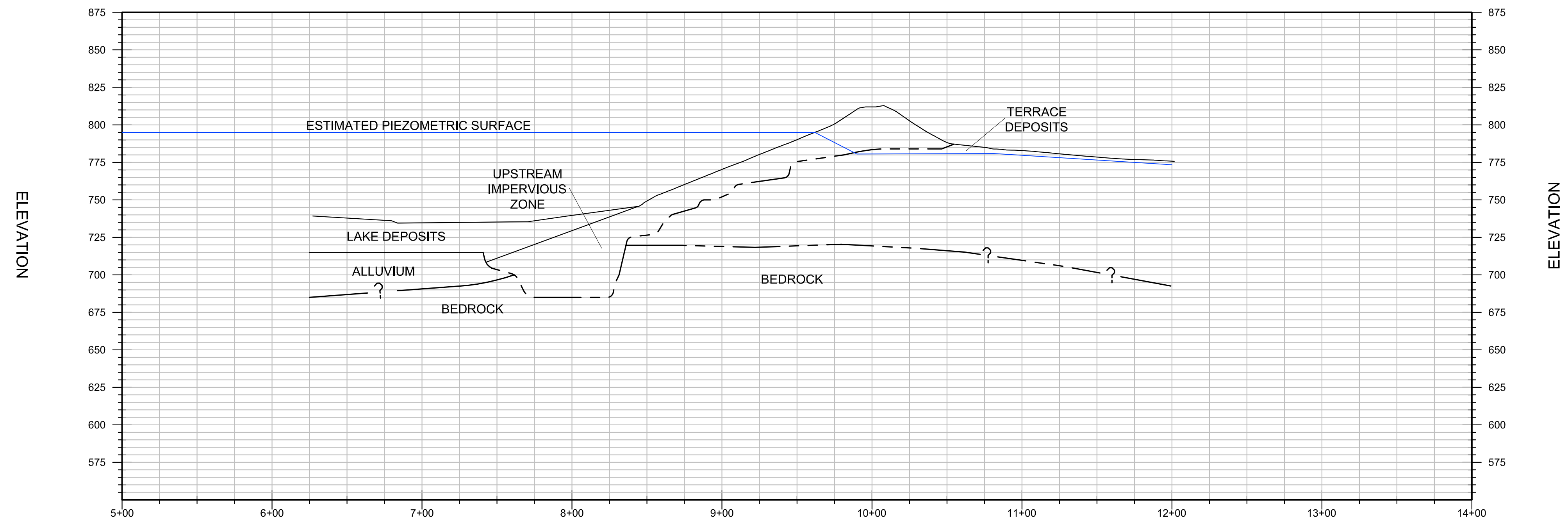
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Project: Revised Santiago Creek Dam Cracking Study	Figure: 4-3

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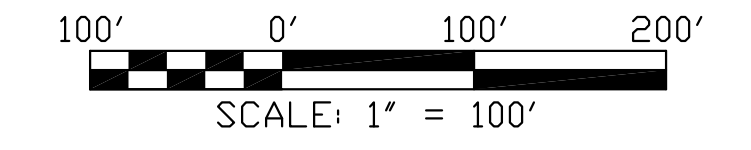
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TRANSVERSE SECTION STATION 8+50
SCALE: 1"=100'



TRANSVERSE SECTION STATION 12+00
SCALE: 1"=100'



AECOM	
Revised Santiago Creek Dam Cracking Study	
TRANSVERSE SECTIONS STATIONS 8+50 & 12+00	
Proj. No.: 60673579	Date: February 2024
Project: Revised Santiago Creek Dam Cracking Study	Figure: 4-4

Santiago Creek Dam Initial Dam Crest Crack Investigation

by Jacob Moeder

Photos from October 17, 2024



Location 1

Location 1





Location 1



Location 1

Crack depth was measured with a wire. At this location (Location 1), the depth is about 8-inches deep at the widest location.



Location 1



Location 1



Location 1



Location 1



Location 2



Location 2



Location 2

Width is about
0.5-inches at the
widest location.



Location 2



Location 2



Location 2



Location 2



Location 2



Location 2



Location 2