



TEAMENVIRONMENTAL.COM

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December 9, 2022

Dr. Aaron Steinwand
135 South Jackson Street
Independence, CA 93526

RE: SUMMARY OF HYDROLOGIC MONITORING ACTIVITIES, NOVEMBER 2022

Rose Valley, Inyo County, California

Hay Ranch Project Conditional Use Permit #2007-03

Dear Dr. Steinwand:

This letter summarizes hydrologic monitoring activities conducted in November 2022 by TEAM Environmental (TEAM), related to the Hay Ranch Water Extraction Project and CUP #2007-03.

BACKGROUND

As outlined in the Hay Ranch Water Extraction Final EIR's Hydrologic Monitoring and Mitigation Plan (HMMP), Phase 1: Monitoring System Setup and Supplemental Data Collection occurred prior to December 25, 2009 at monitoring points throughout Rose Valley. With the initiation of pumping by Coso Operating Company, LLC (COC) on December 25, 2009, the Hay Ranch Water Extraction Project entered into the Phase 2: Startup Monitoring and Reporting period. Phase 3: Model Recalibration and Redefinition of Pumping Rates and Durations occurred from September 2010 to April 2011, with recalibration of the groundwater model by Daniel B. Stephens & Associates (DBS&A) and with redefinition of pumping rates and durations by Inyo County Water Department (ICWD). With the April 1, 2011 issuance of the ICWD's "Addendum to the HMMP for CUP#2007-003/Coso Operating Company, LLC" (2011 ICWD Addendum) the project entered Phase 4: Ongoing Monitoring, Mitigation and Reporting. In 2013 further model revision occurred with results and new trigger levels detailed in ICWD's August 30, 2013 letter to COC regarding Conditional Use Permit #2007-003/Coso. In June 2014 further model revision was conducted by DBS&A with results and new trigger levels detailed in ICWD's June 27, 2014 letter to COC regarding Conditional Use Permit #2007-003/Coso. On June 20, 2016 the ICWD extended the June 30, 2016 cessation of pumping date to September 30, 2016.

In 2017, re-evaluation of pumping rates and duration based on recalibration of the model was conducted by DBS&A. Continuation of pumping, at a rate not to exceed 1,611 acre-feet (AF) annually beginning on June 1, 2017, was approved in ICWD's June 27, 2017 letter to COC regarding Conditional Use Permit #2007-003/Coso. Revised Maximum Acceptable Drawdown and Drawdown at Cessation of Pumping values were provided to TEAM in the DBS&A report titled "Third Updated Groundwater Flow Model and Predictive Simulation Results, Coso Operating Company, Hay Ranch Water Extraction and Delivery System" dated

August 24, 2017. On November 2, 2018, COC requested an evaluation be performed to determine if pumping could be extended past May 31, 2019. In a letter dated November 27, 2018, ICWD agreed to allow COC to pump the remaining volume from the amount permitted to be extracted from June 1, 2017 through May 31, 2019. This allowed COC to pump up to the remaining 1,936 AF from November 14, 2018 through May 31, 2021. Approximately 130 AF of the 1,936 AF were extracted from November 14, 2018 to May 12, 2021.

In May 2021, re-evaluation of pumping rates and duration based on an update of the model was conducted by DBS&A. Continuation of pumping, at a rate not to exceed 800 acre-feet annually beginning on June 1, 2021, was approved in ICWD's May 28, 2021 letter to COC regarding Conditional Use Permit #2007-003/Coso. Revised Maximum Acceptable Drawdown and Drawdown at Cessation of Pumping values were provided in the DBS&A report titled "Fourth Updated Groundwater Flow Model and Predictive Simulation Results, Coso Operating Company, Hay Ranch Water Extraction and Delivery System" dated May 27, 2021.

MONITORING AND REPORTING

During the November 2022 monthly hydrologic data collection event at the monitoring locations in the Rose Valley area, static depth-to-water (DTW) measurements, one visual observation of the Little Lake Ranch (LLR) Siphon Well Outflow and three sets of flow rates were collected by TEAM, as summarized in the attached table (Table 1). Data for this monthly field event were collected on November 9 and 10, 2022. Pressure transducer data were downloaded from monitoring units including one "BaroTroll" which records barometric pressure. Data for LADWP 816 Well were requested from LADWP.

Figure 1 presents the combined amount of groundwater pumped from the Hay Ranch North and South wells, in acre-feet, from December 25, 2009 through November 9, 2022 compared to the current maximum allowable pumping amount. The total amount of groundwater extracted from the Hay Ranch property from December 25, 2009 to October 20, 2022 (Hay Ranch CUP project total) is approximately 18,112 AF.

The maximum allowable pumping rate was 3,000 acre-feet per year (AFY) for December 25, 2009 through December 31, 2010; was 4,839 AFY from January 2011 through August 2013; was 3,040 AFY from September 2013 through June 2014; was 1,614 AFY from July 2014 through September 2016; and was 1,611 AFY from June 2017 through May 31, 2021. The current maximum allowable pumping rate is 800 AFY for the period of June 1, 2021 to May 31, 2025.

For the current annual pumping period (measured from June 2, 2022 through May 2023) totalizers have indicated an estimated 86 AF of groundwater, of the 800 AF allowable, have been extracted from the Hay Ranch Property through November 9, 2022.

TRIGGER LEVELS AND MAXIMUM ACCEPTABLE DRAWDOWNS

In the May 2021 DBS&A report, Trigger Levels and Maximum Acceptable Drawdowns were recommended for specific monitoring wells, based on a maximum allowable pumping rate of

800 AFY beginning on June 1, 2021 through May 31, 2025. These levels were incorporated into the updated Table 2 provided herein.

Based on data collected by TEAM during the November 2022 monitoring event, none of the Trigger Levels were exceeded at Hay Ranch Project monitoring wells which have baselines and trigger levels established (see Table 2). No Maximum Acceptable Drawdown levels have been reached during COC pumping under CUP #2007-03.

OPERATIONAL NOTES

During the period, an error was found in the Long-term Trigger Hydrographs with relation to the trigger level representation. Since June 2021, these charts displayed the "Maximum Drawdown Level" instead of the "Trigger Levels". No trigger levels were exceeded during this period. The trigger levels and maximum drawdowns were being tracked by a different spreadsheet. This was only a display issue on the graphical illustration and has been corrected for this and future reports. There were no other new significant operational issues observed during the reporting period.

DATA TRANSMITTAL

TEAM posted updates to the "Coso Hay Ranch" database on the ICWD web server. Current and previous Hay Ranch Project hydrographs, in PDF form, were uploaded to the ICWD website (www.inyowater.org).

If you have any questions or require additional information, please contact TEAM at your convenience.

Sincerely,

TEAM Environmental



Greg M. Foote

Senior Environmental Scientist

TABLE 1
Field Observations of Rose Valley Hydrologic Monitoring Points
November 2022

| | | |
|---------------|--------------------------|-----------------------------|
| Project Name: | Hay Ranch Project HMMP | Date: November 9 & 10, 2022 |
| Location: | Rose Valley, Inyo County | |
| Observer(s): | G. Foote | Page: 1 of 1 |

| Well ID | Monitoring Point | Date | Time | DTW (ft) | Flow (cfs) | GWE (ft amsl) | Method | Transducer Log Interval | Notes |
|---------|----------------------------------|----------|-------|----------|------------|---------------|-------------------|-------------------------|---------------------------------------------------------|
| RV-10 | Dews | NM | NM | NM | NA | NA | TEAM manual read | NA | Monitoring Discontinued |
| RV-20 | LADWP 816 | NM | NM | NM | NA | NA | LADWP manual read | NA | Data requested from LADWP |
| RV-30 | Cal Pumice | NM | NM | NM | NA | NA | TEAM manual read | NA | Measured to be dry in Nov. 2021 and previously |
| RV-40 | Dunmovin | NM | NM | NM | NA | NA | TEAM manual read | NA | Discontinued due to new in-well infrastructure |
| RV-50 | Hay Ranch North | 11/09/22 | 11:31 | NM | No | NA | TEAM manual read | NA | 3,770,921,100 gallons (11,573 AF) pumped since 12/25/09 |
| RV-60 | Hay Ranch 1A | 11/09/22 | 11:52 | 192.09 | NA | 3240.08 | TEAM manual read | Hourly | |
| RV-61 | Hay Ranch 1B | 11/09/22 | 11:44 | 192.91 | NA | 3238.94 | TEAM manual read | Hourly | |
| RV-62 | Hay Ranch 1C | 11/09/22 | 11:40 | 189.60 | NA | 3241.90 | TEAM manual read | NA | |
| RV-70 | Hay Ranch South | 11/09/22 | 11:32 | NM | No | NA | TEAM manual read | NA | 2,130,968,630 gallons (6,540 AF) pumped since 12/25/09 |
| RV-80 | Hay Ranch 2A | 11/09/22 | 12:25 | 196.12 | NA | 3236.88 | TEAM manual read | Hourly | |
| RV-81 | Hay Ranch 2B | 11/09/22 | 12:15 | 198.68 | NA | 3233.95 | TEAM manual read | Hourly | |
| RV-82 | Hay Ranch 2C | 11/09/22 | 12:11 | 193.77 | NA | 3238.33 | TEAM manual read | NA | |
| RV-90 | Coso Jct Ranch | 11/09/22 | 11:11 | 173.98 | NA | 3229.15 | TEAM manual read | NA | |
| RV-100 | Coso Jct Store #1 | 11/09/22 | 9:42 | 144.94 | NA | 3227.18 | TEAM manual read | Hourly | |
| RV-110 | Davis Ranch North Well | NM | NM | NM | NA | NA | TEAM manual read | NA | Pump installed in DR North well in May 2021 |
| RV-111 | Davis Ranch South Well | NM | NM | NM | NA | NA | TEAM manual read | NA | Pump installed in DR South well in Aug 2015 |
| RV-112 | Davis Ranch South Flow | NM | NM | NM | NA | NA | TEAM manual read | NA | Flow actively managed |
| RV-120 | Red Hill Well (BLM) | 11/09/22 | 9:58 | 141.53 | NA | 3199.30 | TEAM manual read | NA | |
| RV-130 | G-36 | 11/09/22 | 10:15 | 182.73 | NA | 3197.29 | TEAM manual read | NA | |
| RV-140 | Lego | 10/20/22 | 10:49 | 224.88 | NA | 3197.97 | TEAM manual read | NA | Well not accessible in November 2022 |
| RV-150 | Cinder Road | 11/09/22 | 10:44 | 192.63 | NA | 3185.33 | TEAM manual read | NA | Surveyed measuring point removed, DTW measured to TOC |
| RV-160 | 18-28 GTH | 10/20/22 | 10:16 | 175.57 | NA | 3187.01 | TEAM manual read | NA | Well not accessible in November 2022 |
| RV-170 | Fossil Falls Campground | 11/09/22 | 10:35 | 141.99 | NA | 3174.78 | TEAM manual read | NA | |
| RV-180 | LLR North Well | 11/10/22 | 10:07 | 41.05 | NA | 3158.05 | TEAM manual read | Hourly | |
| RV-210 | LLR Dock Well | 11/10/22 | 11:11 | 6.63 | NA | 3147.51 | TEAM manual read | NA | |
| RV-220 | LLR Stilling Well (lake surface) | 11/10/22 | 11:00 | 4.10 | NA | 3146.94 | TEAM manual read | Hourly | |
| RV-230 | LLR Little Lake Outflow | 11/10/22 | 11:25 | NA | 0.00 | NA | TEAM manual read | Hourly | Accuracy limitations (maintenance recommended) |
| RV-240 | LLR Coso Springs Flow | 11/10/22 | 11:44 | NA | 0.43 | NA | TEAM manual read | Hourly | |
| RV-245 | LLR North Culvert Flow | 11/10/22 | 12:27 | NA | 0.85 | NA | TEAM manual read | Hourly | |
| RV-250 | LLR Siphon Discharge | 11/10/22 | 12:21 | NA | Yes | NA | TEAM visual read | NA | Siphon Well flowing into Pond 2 |
| RV-260 | LLR Hotel Well | 11/10/22 | 10:53 | -0.09 | NA | 3138.87 | TEAM manual read | NA | Artesian |

NM - not measured; NA - not applicable; IO - Inoperative; UA - Data currently unavailable

DTW - Depth to water in feet (ft) below top of casing or other reference point; a negative DTW indicates that the groundwater elevation is above the surveyed reference point

Flow - In cubic feet per second (cfs)

GWE- Groundwater elevation in feet above mean sea level (ft amsl)

TABLE 2
Hay Ranch Project Groundwater Baselines and Trigger Levels
November 2022

| Well ID | Monitoring Point | Baseline GWE ¹ (feet amsl) | Recent Date of Measurement | Recent GWE (feet amsl) | Recent GWE Compared to Baseline (feet) | Drawdown Trigger Level ² (feet) | Recent GWE Compared to Trigger Level (feet) | Maximum Acceptable Drawdown ² (feet) | Recent GWE Above Max. Drawdown (feet) |
|---------|-------------------|------------------------------------------|----------------------------|---------------------------|-------------------------------------------|-----------------------------------------------|------------------------------------------------|----------------------------------------------------|------------------------------------------|
| RV-80 | HR 2A | 3240.92 | 11/09/22 | 3236.88 | -4.04 | 13.6 | 9.56 | 17.6 | 13.56 |
| RV-90 | Coso Jct Ranch | 3230.65 | 11/09/22 | 3229.15 | -1.50 | 8.3 | 6.80 | 9.4 | 8.20 |
| RV-100 | Coso Jct Store #1 | 3227.59 | 11/09/22 | 3227.18 | -0.41 | 7.6 | 7.19 | 8.4 | 8.29 |
| RV-120 | Red Hill Well | 3200.66 | 11/09/22 | 3199.30 | -1.36 | 3.4 | 2.04 | 3.5 | 2.64 |
| RV-130 | G-36 | 3198.35 | 11/09/22 | 3197.29 | -1.06 | 3.0 | 1.94 | 3.1 | 2.54 |
| RV-140 | Lego | 3199.21 | 10/20/22 (3) | 3197.97 | -1.24 | 2.1 | 0.86 | 2.5 | 1.46 |
| RV-150 | Cinder Road | 3186.92 | 11/09/22 | 3185.33 | -1.59 | 2.0 | 0.41 | 2.2 | 0.81 |
| RV-160 | 18-28 GTH | 3187.67 | 10/20/22 (3) | 3187.01 | -0.66 | 1.9 | 1.24 | 2.1 | 1.64 |
| RV-180 | LLR North Well | 3158.88 | 11/09/22 | 3158.05 | -0.83 | 1.1 | 0.27 | 1.3 | 0.57 |

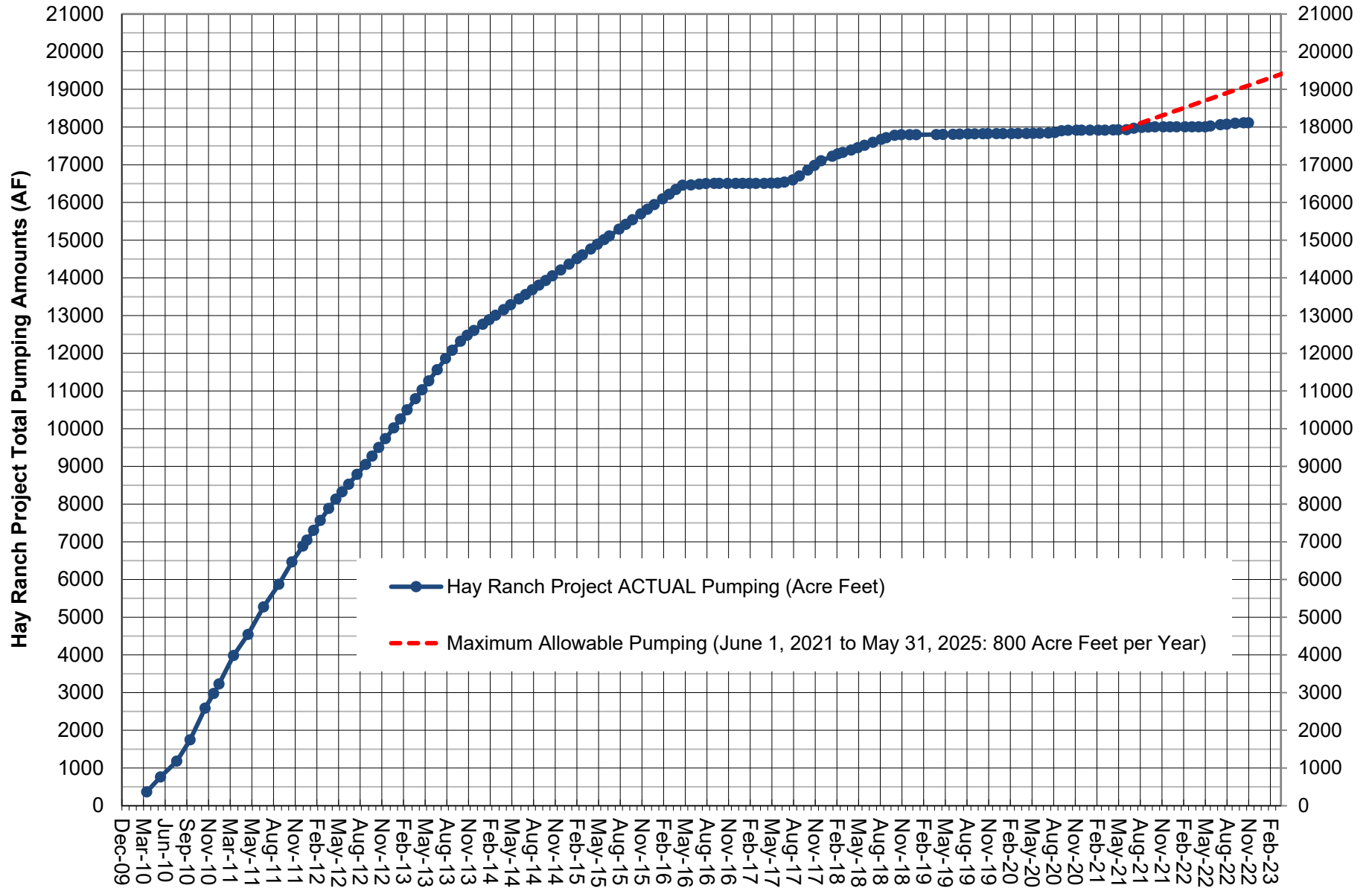
1) GWE: Groundwater elevation measured in feet above mean sea level. Baseline GWEs set January 2010 and March 2011 and approved by Inyo County Water Department (ICWD).

2) Max DD and Trigger Level: Maximum Acceptable Drawdown and Drawdown Trigger Level from Table 4 of the "Fourth Updated Groundwater Flow Model and Predictive Simulation Results, Coso Operating Company Hay Ranch Water Extraction and Delivery System, Conditional Use Permit (CUP) 2007-003" Dated May 27, 2021.

3) Well not accessible in November 2022, anticipated to be accessible in December 2022.

4) Cinder Road well damaged in October 2017, surveyed measuring point removed. Accuracy of GWE calculation may be reduced.

FIGURE 1
ACTUAL AND MAXIMUM ALLOWABLE PUMPING AMOUNTS (TOTALS) FOR HAY RANCH PROJECT



Coso Operating Company has pumped less than the maximum allowable amounts throughout the project.