



TEAMENVIRONMENTAL.COM

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May 24, 2024

Dr. Holly Alpert
Inyo County Water Department
135 South Jackson Street
Independence, CA 93526

RE: SUMMARY OF HYDROLOGIC MONITORING ACTIVITIES, APRIL 2024

Rose Valley, Inyo County, California
Hay Ranch Project Conditional Use Permit #2007-03

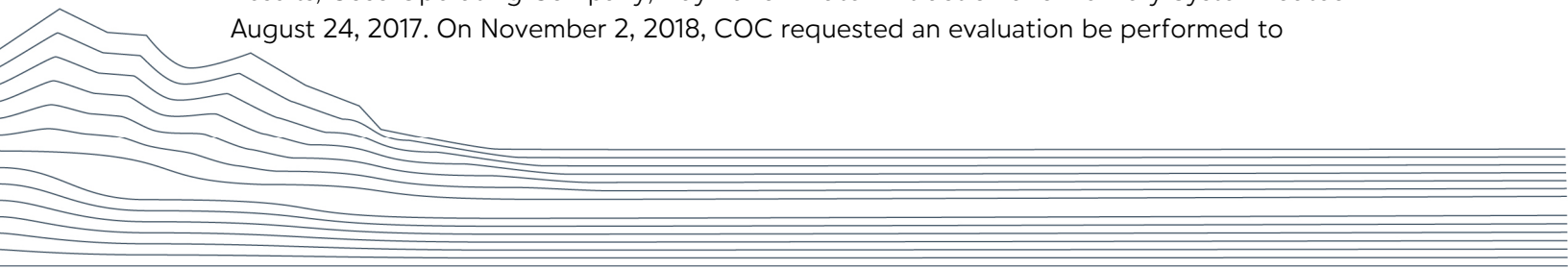
Dear Dr. Alpert:

This letter summarizes hydrologic monitoring activities conducted in April 2024 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.

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. 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 April 2024 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 April 18, 2024. 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 April 18, 2024 compared to the current maximum allowable pumping amount. The total amount of groundwater extracted from the Hay Ranch property from December 25, 2009 to April 18, 2024 (Hay Ranch CUP project total) is approximately 18,180 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 acre-feet in any 12 month period between June 1, 2021 to May 31, 2025. For consistency of reporting, the period of June through May has been considered the annual pumping period under the current Conditional Use Permit.

For the current annual pumping period (June 1, 2023 to May 31, 2024), totalizers have indicated approximately 50 AF of groundwater, of the 800 AF allowable, was extracted from the Hay Ranch Property as measured from June 15, 2023 to April 18, 2024.

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 April 2024 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 at anytime during COC pumping under CUP #2007-03. Water levels were measured above their baseline levels at four locations, HR 2A (RV-80), Coso Junction Ranch (RV-90) Coso Junction Store (RV-100) and Little Lake Ranch North Well (RV-180), in April 2024.

OPERATIONAL NOTES

The data for the Little Lake Ranch Outflow Flume (RV-230) was not presented in this report as it was not accurate. 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
April 2024

Project Name:	Hay Ranch Project HMMP	Date: April 18, 2024
Location:	Rose Valley, Inyo County	
Observer(s):	G. Foote	Page: 1 of 1

Well ID		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	No access. Lock was changed
RV-40	Dunmovin	NM	NM	NM	NA	NA	TEAM manual read	NA	Discontinued due to new in-well infrastructure
RV-50	Hay Ranch North	04/18/24	12:50	NM	No	NA	TEAM manual read	NA	3,778,863,924 gallons (11,597 AF) pumped since 12/25/09
RV-60	Hay Ranch 1A	04/18/24	13:07	160.33	NA	3271.84	TEAM manual read	Hourly	
RV-61	Hay Ranch 1B	04/18/24	13:02	180.62	NA	3251.23	TEAM manual read	Hourly	
RV-62	Hay Ranch 1C	04/18/24	12:59	174.63	NA	3256.87	TEAM manual read	NA	
RV-70	Hay Ranch South	04/18/24	12:51	NM	No	NA	TEAM manual read	NA	2,145,058,003 gallons (6,583 AF) pumped since 12/25/09
RV-80	Hay Ranch 2A	04/18/24	13:28	180.56	NA	3252.44	TEAM manual read	Hourly	
RV-81	Hay Ranch 2B	04/18/24	13:24	189.75	NA	3242.88	TEAM manual read	Hourly	
RV-82	Hay Ranch 2C	04/18/24	13:20	183.87	NA	3248.23	TEAM manual read	NA	
RV-90	Coso Jct Ranch	04/18/24	8:51	171.68	NA	3231.45	TEAM manual read	NA	
RV-100	Coso Jct Store #1	04/18/24	12:35	140.87	NA	3231.25	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)	04/18/24	11:34	141.19	NA	3199.64	TEAM manual read	NA	
RV-130	G-36	04/18/24	12:12	182.33	NA	3197.69	TEAM manual read	NA	Access road damaged by flooding, walking access only
RV-140	Lego	NM	NM	NM	NA	NM	TEAM manual read	NA	Access road damaged by flooding, walking access only
RV-150	Cinder Road	04/18/24	9:05	192.15	NA	3185.81	TEAM manual read	NA	Surveyed measuring point removed, DTW measured to TOC
RV-160	18-28 GTH	NM	NM	NM	NA	NM	TEAM manual read	NA	Access road damaged by flooding, walking access only
RV-170	Fossil Falls Campground	04/18/24	9:14	141.46	NA	3175.31	TEAM manual read	NA	
RV-180	LLR North Well	04/18/24	9:43	39.91	NA	3159.19	TEAM manual read	Hourly	
RV-210	LLR Dock Well	04/18/24	10:01	5.97	NA	3148.17	TEAM manual read	NA	
RV-220	LLR Stilling Well (lake surface)	04/18/24	9:57	3.54	NA	3147.50	TEAM manual read	Hourly	
RV-230	LLR Little Lake Outflow	04/18/24	10:19	NA	Yes	NA	TEAM manual read	Hourly	Accuracy limitations, data not presented
RV-240	LLR Coso Springs Flow	04/18/24	10:35	NA	0.48	NA	TEAM manual read	Hourly	
RV-245	LLR North Culvert Flow	04/18/24	11:04	NA	1.66	NA	TEAM manual read	Hourly	
RV-250	LLR Siphon Discharge	04/18/24	10:57	NA	Yes	NA	TEAM visual read	NA	Siphon Well flowing into Pond 2
RV-260	LLR Hotel Well	04/18/24	9:29	-0.78	NA	3139.56	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
April 2024

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 Compared to Max. Drawdown (feet)
RV-80	HR 2A	3240.92	04/18/24	3252.44	11.52	13.6	25.12	17.6	29.12
RV-90	Coso Jct Ranch	3230.65	04/18/24	3231.45	0.80	8.3	9.10	9.4	10.50
RV-100	Coso Jct Store #1	3227.59	04/18/24	3231.25	3.66	7.6	11.26	8.4	12.36
RV-120	Red Hill Well	3200.66	04/18/24	3199.64	-1.02	3.4	2.38	3.5	2.98
RV-130	G-36	3198.35	04/18/24	3197.69	-0.66	3.0	2.34	3.1	2.94
RV-140	Lego	3199.21	3/21/24 (3)	3198.29	-0.92	2.1	1.18	2.5	1.78
RV-150	Cinder Road	3186.92	4/18/24 (4)	3185.81	-1.11	2.0	0.89	2.2	1.29
RV-160	18-28 GTH	3187.67	3/21/24 (3)	3187.20	-0.47	1.9	1.43	2.1	1.83
RV-180	LLR North Well	3158.88	04/18/24	3159.19	0.31	1.1	1.41	1.3	1.71

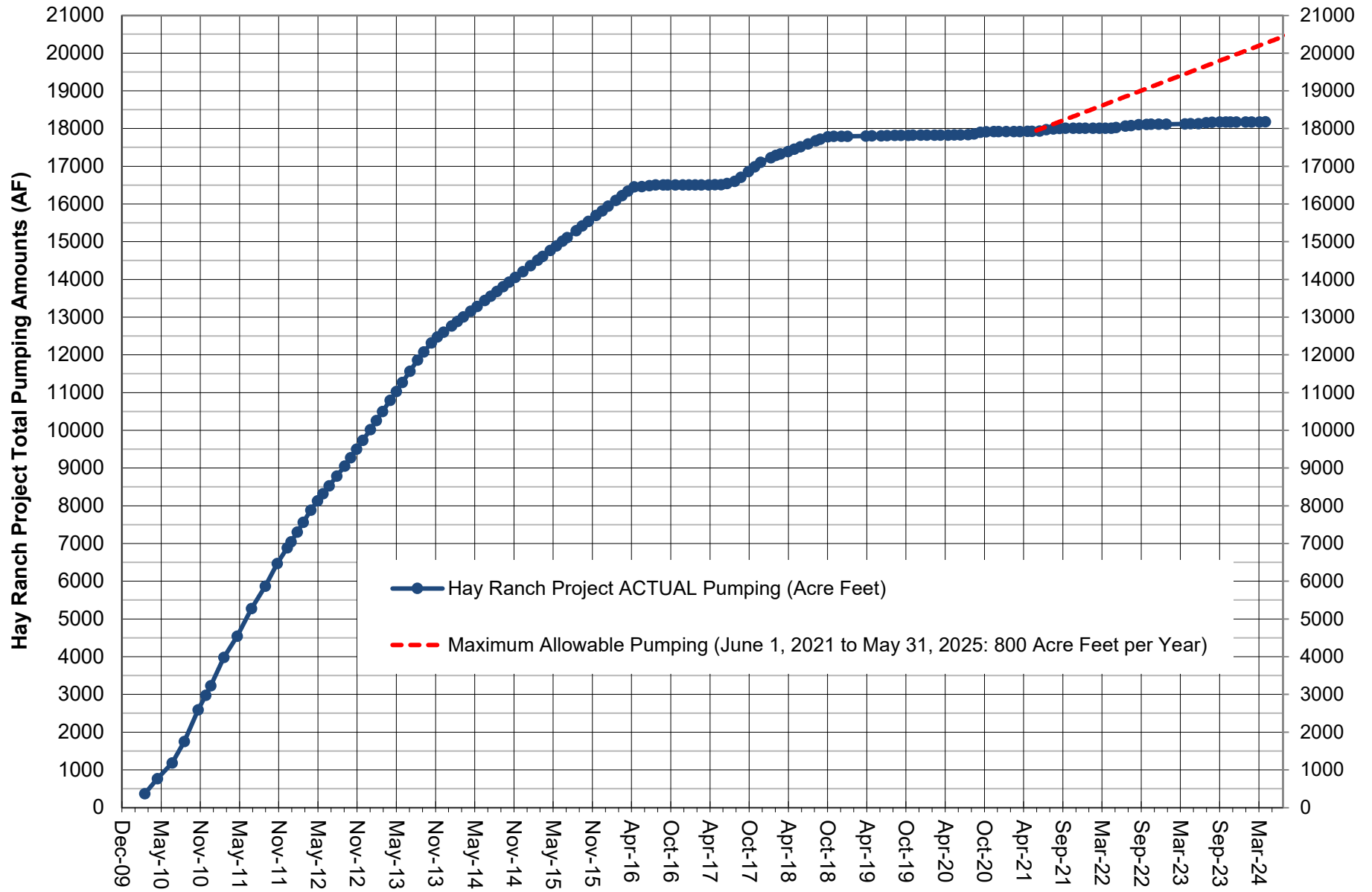
1) GWE: Groundwater elevation measured in feet above mean sea level. Baseline GWEs set by Inyo County Water Department in April 1, 2011 HMMP addendum.

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 inaccessible in April 2024 due to damaged access road.

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.