

FNGINFFRING & MANAGEMENT, INC.

Dr. Aaron Steinwand Inyo County Water Department 135 South Jackson Street Independence, CA 93526 December 29, 2020

RE: Summary of Hydrologic Monitoring Activities, December 2020

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

Dear Dr. Steinwand:

This letter summarizes hydrologic monitoring activities conducted in December 2020 by TEAM Engineering & Management, Inc. (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.

Re-evaluation of pumping rates and duration based on recalibration of the model was conducted by DBS&A in 2017. Continuation of pumping, at a rate not to exceed 1,611 acre-feet 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 allows COC to pump up to the remaining 1,936 AF from November 14, 2018 through May 31, 2021 as long as all other agreed upon conditions are followed.

Monitoring and Reporting

During the December 2020 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 four 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 December 9 and 10, 2020. 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 December 9, 2020 compared to the maximum allowable pumping amounts. The total amount of groundwater extracted from the Hay Ranch property from December 25, 2009 to December 9, 2020 (Hay Ranch CUP project total) is approximately 17,917 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 June 2016, extended by ICWD through September 2016; and is 1,611 AFY from June 2017 through May 2019, extended by ICWD through May 31, 2021.

For the current extended pumping period (November 14, 2018 to May 31, 2021) totalizers have indicated an estimated 122 AF of groundwater, of the 1,936 AF allowable, have been extracted from the Hay Ranch Property through December 9, 2020.

Trigger Levels and Maximum Acceptable Drawdowns

In the August 2017 DBS&A report, Trigger Levels and Maximum Acceptable Drawdowns were recommended for specific monitoring wells, based on a maximum allowable pumping rate of 1,611 AFY starting on June 1, 2017. These levels were incorporated into the updated Table 2 provided herein.

Based on the manual depth to water (DTW) data collected by TEAM in December 2020, the water levels at the Lego (RV-140), Cinder Road (RV-150) and LLR North (RV-180) Wells were measured in exceedance of their Trigger Levels, by 0.01, 0.02 and 0.06 feet, respectively. No action is required other than notification, until two triggers are exceeded by 0.25 feet or more.

Based on data collected by TEAM during the December 2020 monitoring period, none of the other 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

The LLR Lake Outflow flume (RV-230) has been noted to have accuracy limitations due to a restriction of flow downstream of the flume. Maintenance is recommended by TEAM but not scheduled to be performed due to landowner restrictions. There were no other significant operational issues observed during the reporting period.

Data Transmittal

TEAM posted updates to the "Coso" database on the ICWD web server. Current 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 Engineering & Management, Inc.

Greg M. Foote

Senior Environmental Scientist

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

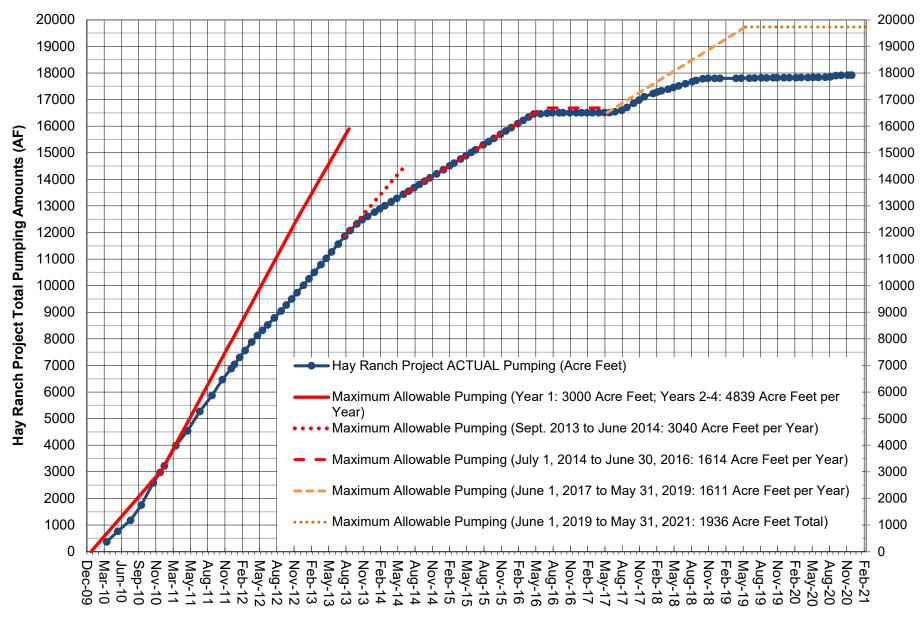


TABLE 1

Field Observations of Rose Valley Hydrologic Monitoring Points December 2020

Project Name:	Hay Ranch Project HMMP	Date: December 9 & 10, 2020		
Location:	Rose Valley, Inyo County			
Observer(s):	G. Foote	Page: 1 of 1		

Well ID	Monitoring Point	Date	Time	DTW	Flow	GWE	Method	Transducer	Notes
				(ft)	(cfs)	(ft amsl)		Log Interval	
RV-10	Dews	NM	NM	NM	NA	NM	TEAM manual read	NA	
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	Hourly	Measured to be dry in April. 2020
RV-40	Dunmovin	NM	NM	NM	NA	NM	TEAM manual read	NA	Discontinued due to new in-well infrastructure
RV-50	Hay Ranch North	12/09/20	13:34	NM	No	NM	TEAM manual read	NA	3,770,542,556 gallons (11,571 AF) pumped since 12/25/09
RV-60	Hay Ranch 1A	12/09/20	13:50	192.55	NA	3239.62	TEAM manual read	Hourly	
RV-61	Hay Ranch 1B	12/09/20	13:40	195.06	NA	3236.79	TEAM manual read	Hourly	
RV-62	Hay Ranch 1C	12/09/20	13:38	191.64	NA	3239.86	TEAM manual read	NA	
RV-70	Hay Ranch South	12/09/20	13:35	NM	No	NM	TEAM manual read	NA	2,067,865,022 gallons (6,346 AF) pumped since 12/25/09
RV-80	Hay Ranch 2A	12/09/20	13:12	196.56	NA	3236.44	TEAM manual read	Hourly	
RV-81	Hay Ranch 2B	12/09/20	13:59	200.83	NA	3231.80	TEAM manual read	Hourly	
RV-82	Hay Ranch 2C	12/09/20	13:57	195.50	NA	3236.60	TEAM manual read	NA	
RV-90	Coso Jct Ranch	12/09/20	10:51	174.76	NA	3228.37	TEAM manual read	NA	
RV-100	Coso Jct Store #1	12/09/20	10:13	145.56	NA	3226.56	TEAM manual read	Hourly	
RV-110	Davis Ranch North Well	12/09/20	11:07	6.60	NA	3886.46	TEAM manual read	NA	
RV-111	Davis Ranch South Well	12/09/20	11:11	12.39	NA	3885.67	TEAM manual read	NA	Pump installed in DR South well in Aug 2015
RV-112	Davis Ranch South Flow	12/09/20	11:18	NM	0.008	NM	TEAM manual read	NA	Flow actively managed
RV-120	Red Hill Well (BLM)	12/09/20	10:31	141.45	NA	3199.38	TEAM manual read	Hourly	
RV-130	G-36	12/09/20	12:12	182.98	NA	3197.04	TEAM manual read	NA	
RV-140	Lego	12/09/20	13:15	224.95	NA	3197.90	TEAM manual read	Hourly	
RV-150	Cinder Road	12/09/20	11:43	192.56	NA	3185.40	TEAM manual read	Hourly	Surveyed measuring point removed, DTW measured to TOC
RV-160	18-28 GTH	12/09/20	12:59	175.40	NA	3187.18	TEAM manual read	NA	
RV-170	Fossil Falls Campground	12/09/20	12:35	141.65	NA	3175.12	TEAM manual read	NA	
RV-180	LLR North Well	12/10/20	9:54	40.98	NA	3158.12	TEAM manual read	Hourly	
RV-210	LLR Dock Well	12/10/20	10:20	6.74	NA	3147.40	TEAM manual read	NA	Surveyed measuring point removed, DTW measured to TOC
RV-220	LLR Stilling Well (lake surface)	12/10/20	10:16	4.26	NA	3146.78	TEAM manual read	Hourly	
RV-230	LLR Little Lake Outflow	12/10/20	10:34	NA	0.00	NA	TEAM manual read	Hourly	Potential accuracy limitations (see report for details)
RV-240	LLR Coso Springs Flow	12/10/20	10:53	NA	0.47	NA	TEAM manual read	Hourly	
RV-245	LLR North Culvert Flow	12/10/20	11:18	NA	0.95	NA	TEAM manual read	Hourly	
RV-250	LLR Siphon Discharge	12/10/20	11:14	NA	Yes	NA	TEAM visual read	NA	Siphon Well flowing into Pond 2
RV-260	LLR Hotel Well	12/09/20	11:54	-0.03	NA	3138.68	TEAM manual read	NA	Artesian, DTW measured above TOC

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
December 2020

Well ID	Monitoring Point	Baseline GWE ¹	Recent Date	Recent GWE	Recent GWE	Drawdown	Recent GWE	Recent GWE
			of Measurement		Compared to Baseline	Trigger Level ²	Compared to Trigger Level	Above Max
								Drawdown ²
		(feet amsl)		(feet amsl)	(feet)	(feet)	(feet)	(feet)
RV-80	HR 2A	3240.92	12/09/20	3236.44	-4.48	16.9	12.42	13.12
RV-90	Coso Jct Ranch	3230.65	12/09/20	3228.37	-2.28	9.60	7.32	7.42
RV-100	Coso Jct Store #1	3227.59	12/09/20	3226.56	-1.03	8.60	7.57	7.67
RV-120	Red Hill Well	3200.66	12/09/20	3199.38	-1.28	3.40	2.12	2.72
RV-130	G-36	3198.35	12/09/20	3197.04	-1.31	2.70	1.39	2.29
RV-140	Lego	3199.21	12/09/20	3197.90	-1.31	1.30	-0.01	1.39
RV-150	Cinder Road	3186.92	12/9/20 (3)	3185.40	-1.52	1.50	-0.02	0.88
RV-160	18-28 GTH	3187.67	12/09/20	3187.18	-0.49	1.20	0.71	1.81
RV-180	LLR North Well	3158.88	12/10/20	3158.12	-0.76	0.70	-0.06	0.64

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 "Third 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 August 24, 2017.

³⁾ Cinder Road well damaged in October 2017, surveyed measuring point removed. Accuracy of GWE calculation may be reduced.