

April 5, 2011

Dr. Bob Harrington Inyo County Water Department 135 South Jackson Street Independence, CA 93526

RE: Summary of Hydrologic Monitoring Activities March 2011 Rose Valley, Inyo County, California Hay Ranch Project Conditional Use Permit #2007-03

Dear Dr. Harrington:

This letter is intended to summarize hydrologic monitoring activities conducted in March 2011 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 (Coso) 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 has entered Phase 4: Ongoing Monitoring, Mitigation and Reporting.

Monitoring and Reporting

During the March 2011 monthly hydrologic data collection event at 30 monitoring locations in the Rose Valley area, static depth-to-water (DTW) measurements, one visual observation of the Little Lake Ranch 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 was collected on March 16 and 17. Pressure transducer data were downloaded from 24 units, including one "BaroTroll" measuring barometric pressure. On March 1, a DTW measurement at LADWP 816 Well was taken by LADWP personnel.

At the Hay Ranch Property, Coso pumped groundwater from two productions wells: Hay Ranch North and Hay Ranch South. For the first year of project pumping, from December 25, 2009 to December 24, 2010, a total of approximately 2992 acre feet (AF) of groundwater were extracted from these two wells (821 AF from the Hay Ranch North Well, and 2171 AF from the Hay Ranch South Well).

During the second year of project pumping, December 25, 2010 to March 16, 2011, a total of approximately 990 AF of groundwater have been extracted from the Hay Ranch property (379 AF from the Hay Ranch North Well, and 611 AF from the Hay Ranch South Well).

Figure 1 presents the combined amount of groundwater pumped from the Hay Ranch North and South wells (in AF) from December 25, 2009 through March 16, 2011 compared to a hypothetical pumping amount. The total amount of groundwater extracted from the Hay Ranch property from December 25, 2009 to March 16, 2011 was approximately 3982 AF. The hypothetical pumping amount assumes a pumping rate of approximately 3000 acre-feet per year (AFY) for December 25, 2009 through December 31, 2010 and assumes a rate of approximately 4839 AFY from January 1, 2011 through December 31, 2011. These hypothetical pumping rates represent the maximum allowable pumping amounts for the 2010 and 2011 periods.

Trigger Levels and Maximum Acceptable Drawdowns

In Table 2 of the 2011 ICWD Addendum, Trigger Levels and Maximum Acceptable Drawdowns have been set based on a pumping rate of 4839 AFY. Approximately 15 months (1.3 years) has elapsed since the Hay Ranch Project's pumping was initiated. Based on data collected by TEAM during the March 2011 monitoring event, no Trigger Levels or Maximum Acceptable Drawdowns have been exceeded at Hay Ranch Project monitoring wells which have baseline and trigger levels established.

Operational Notes

There were no significant operational issues of note for the period.

Data Transmittal

TEAM posted updates to the "Coso" database on the ICWD web server. New Hay Ranch Project hydrographs in PDF form were uploaded to the ICWD website (<u>www.inyowater.org</u>).

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

Sincerely,

TEAM Engineering & Management, Inc.

Keith Rainville Staff Geologist

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TABLE 1Field Observations of Rose Valley Hydrologic Monitoring Points
March 16-17, 2011

| Project Name: | Hay Ranch Project HMMP | Date: March 16-17, 2011 | | | | | | | |
|---------------|----------------------------------|-------------------------|-------|--------|-------|-----------|-------------------|--------------|-----------------------------------------------------|
| Location: | Rose Valley, Inyo County | | | | | | | | |
| Observer(s): | K. Rainville | 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 | 03/17/11 | 14:50 | 231.35 | | 3755.57 | TEAM manual read | NA | |
| RV-20 | LADWP 816 | 03/01/11 | 14:36 | 75.54 | | 3439.52 | LADWP manual read | NA | Data provided by LADWP |
| RV-30 | Cal Pumice | 03/16/11 | 9:25 | 254.53 | | 3251.36 | TEAM manual read | Hourly | |
| RV-40 | Dunmovin | 03/16/11 | 9:00 | 298.80 | | 3249.07 | TEAM manual read | NA | |
| RV-50 | Hay Ranch North | 03/16/11 | 16:41 | NM | Yes | NM | TEAM manual read | NA | 390,984,478 gallons (1200) pumped since 12/25/09 |
| RV-60 | Hay Ranch 1A | 03/16/11 | 12:21 | 198.61 | | 3233.56 | TEAM manual read | Hourly | |
| RV-61 | Hay Ranch 1B | 03/16/11 | 12:26 | 232.18 | | 3199.67 | TEAM manual read | Hourly | |
| RV-62 | Hay Ranch 1C | 03/16/11 | 12:45 | 217.89 | | 3213.61 | TEAM manual read | Hourly | |
| RV-70 | Hay Ranch South | 03/16/11 | 16:42 | NM | Yes | NM | TEAM manual read | NA | 906,570,918 gallons (2782 AF) pumped since 12/25/09 |
| RV-80 | Hay Ranch 2A | 03/16/11 | 13:06 | 199.28 | | 3233.72 | TEAM manual read | Hourly | |
| RV-81 | Hay Ranch 2B | 03/16/11 | 13:17 | 227.36 | | 3205.27 | TEAM manual read | Hourly | |
| RV-82 | Hay Ranch 2C | 03/16/11 | 13:12 | 211.98 | | 3220.12 | TEAM manual read | Hourly | |
| RV-90 | Coso Jct Ranch | 03/16/11 | 9:44 | 171.84 | | 3231.29 | TEAM manual read | Hourly | |
| RV-100 | Coso Jct Store #1 | 03/16/11 | 9:55 | 144.85 | | 3227.27 | TEAM manual read | Hourly | |
| RV-110 | Davis Ranch North Well | 03/16/11 | 13:50 | 6.46 | | 3886.54 | TEAM manual read | Hourly | |
| RV-111 | Davis Ranch South Well | 03/16/11 | 14:05 | 11.23 | | 3886.77 | TEAM manual read | Hourly | |
| RV-112 | Davis Ranch South Flow | 03/16/11 | 14:21 | NA | 0.016 | NA | TEAM manual read | Hourly | |
| RV-120 | Red Hill Well (BLM) | 03/16/11 | 11:49 | 139.85 | | 3200.98 | TEAM manual read | Hourly | |
| RV-130 | G-36 | 03/16/11 | 11:38 | 180.10 | | 3199.92 | TEAM manual read | NA | |
| RV-140 | Lego | 03/16/11 | 11:22 | 222.12 | | 3200.73 | TEAM manual read | Hourly | |
| RV-150 | Cinder Road | 03/16/11 | 10:11 | 190.93 | | 3187.03 | TEAM manual read | Hourly | |
| RV-160 | 18-28 GTH | 03/16/11 | 11:04 | 173.92 | | 3188.66 | TEAM manual read | Hourly | |
| RV-170 | Fossil Falls Campground | 03/16/11 | 10:40 | 141.00 | | 3175.77 | TEAM manual read | NA | |
| RV-180 | LLR North Well | 03/17/11 | 12:12 | 39.99 | | 3159.11 | TEAM manual read | Hourly | |
| RV-210 | LLR Dock Well | 03/17/11 | 10:35 | 5.82 | | 3148.32 | TEAM manual read | Hourly | |
| RV-220 | LLR Stilling Well (lake surface) | 03/17/11 | 10:43 | 3.26 | | 3147.78 | TEAM manual read | Hourly | |
| RV-230 | LLR Little Lake Outflow | 03/17/11 | 11:20 | NA | 0.04 | NA | TEAM manual read | Hourly | |
| RV-240 | LLR Coso Springs Flow | 03/17/11 | 11:03 | NA | 0.39 | NA | TEAM manual read | Hourly | |
| RV-245 | LLR North Culvert Flow | 03/17/11 | 11:47 | NA | 0.92 | NA | TEAM manual read | Hourly | |
| RV-250 | LLR Siphon Discharge | 03/17/11 | 11:36 | NA | Yes | NA | TEAM visual read | NA | Siphon Well flowing into Pond 2 |
| RV-260 | LLR Hotel Well | 03/17/11 | 9:27 | 0.06 | | 3138.72 | TEAM manual read | Hourly | |

NM - not measured; NA - not applicable; IO - Inoperative

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 March 2011

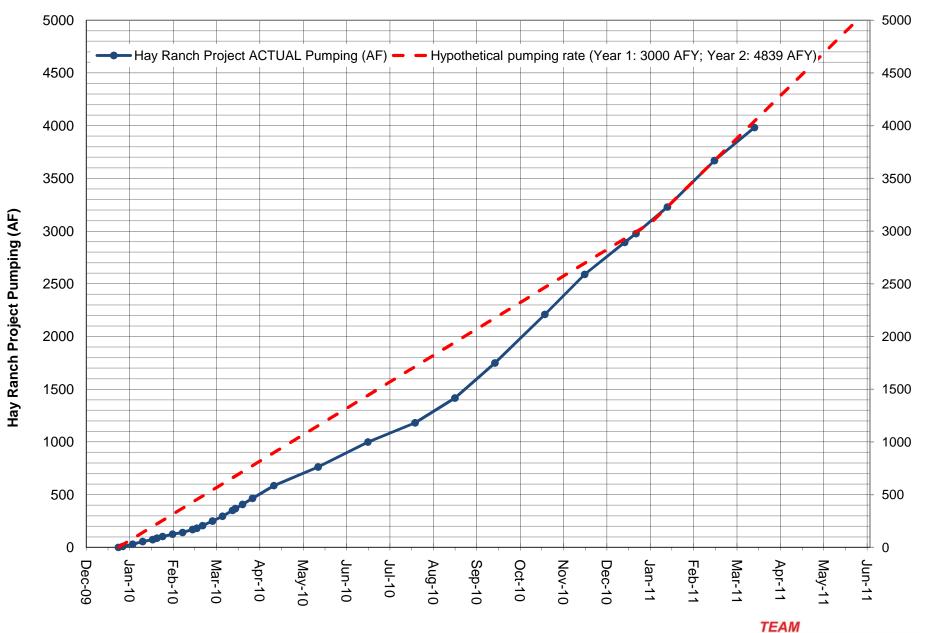
| Well ID | ell ID Monitoring Point Baseline | | Recent Date | Recent GWE | Recent GWE | Recent GWE | Trigger Level | Recent GWE |
|---------|----------------------------------|-------------|----------------|-------------|--------------------------------|-------------------------------------|------------------------------------------------|-------------------------------------|
| | | (feet amsl) | of Measurement | (feet amsl) | Compared to Baseline (feet) | Above Max DD ² (feet) | At Cessation of Pumping ³ (feet) | Compared to Trigger Level (feet) |
| RV-40 | Dunmovin | 3252.73 | 03/16/11 | 3249.07 | -3.66 | 19.64 | 23.2 | 19.54 |
| RV-80 | HR 2A | 3240.92 | 03/16/11 | 3233.72 | -7.20 | 20.40 | 27.6 | 20.40 |
| RV-90 | Coso Jct Ranch | 3230.65 | 03/16/11 | 3231.29 | 0.64 | 12.34 | 11.3 | 11.94 |
| RV-100 | Coso Jct Store #1 | 3227.59 | 03/16/11 | 3227.27 | -0.32 | 9.78 | 9.5 | 9.18 |
| RV-120 | Red Hill Well | 3200.66 | 03/16/11 | 3200.98 | 0.32 | 4.22 | 1.8 | 2.12 |
| RV-130 | G-36 | 3198.35 | 03/16/11 | 3199.92 | 1.57 | 4.97 | 1.0 | 2.57 |
| RV-140 | Lego | 3199.21 | 03/16/11 | 3200.73 | 1.52 | 3.82 | 0.0 | 1.52 |
| RV-150 | Cinder Road | 3186.92 | 03/16/11 | 3187.03 | 0.11 | 2.41 | 0.2 | 0.31 |
| RV-160 | 18-28 GTH | 3187.67 | 03/16/11 | 3188.66 | 0.99 | 3.09 | 0.0 | 0.99 |
| RV-180 | LLR North Well | 3158.88 | 03/17/11 | 3159.11 | 0.23 | 1.53 | 0.0 | 0.23 |

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

2) Max DD: Maximum Acceptable Drawdown from Table 2 of "Addendum to HMMP for CUP#2007-003/Coso Operating Company, LLC"

3) Trigger Level at Cessation of Pumping from Table 2 of "Addendum to HMMP for CUP#2007-003/Coso Operating Company, LLC"

FIGURE 1 HYPOTHETICAL AND ACTUAL HAY RANCH PROJECT PUMPING



Note: Coso Operating Co. initiated Hay Ranch Project pumping on 12/25/09.

The "hypothetical pumping rate" is based on a pumping rate of 3000 AF per year for 12/25/09 to 12/31/10, and 4839 AF per year for 1/1/11 to 12/31/11.

ENGINEERING & MANAGEMENT, INC. Bishop and Mammoth Lakes, California 4/4/2011