

MEMORANDUM

To: Water Right File No 61-12090

From: Ashley Ritter

Date: April 12, 2021

Re: Reporting Requirements Review

Intro

On April 05, 2021, SPF Water Engineering (SPF) submitted 2020 Annual Water Level Monitoring Report for Permit 61-12090 (via email). Permit 61-12090 condition six (6) requires compliance with an IDWR approved monitoring plan that was approved by the Department on March 26, 2012. The approved monitoring plan requires submission of an annual report that includes:

- a) Analysis of water level trends in the production well and shallow observation well;
- b) Reporting of discharge rates over time and analysis in relation to water levels;
- c) Electronic records of water level and discharge data;
- d) Evaluation of downward return flow from irrigation discharge water in relation to water levels; and
- e) Reporting of any temporary agricultural use, including crops grown and acres irrigated during the year.

Review of report

The SPF submitted report summarizes water level data collected from the Elk Creek Village monitoring well (MW-1) and the Elk Creek Village production well (PW-1).

It is reported that PW-1 is not yet being used for production, but groundwater levels are still being measured.

Monitoring events took place on March 27, June 29, September 15, and December 21, 2020 as well as March 26, 2021.

Pumping from a new irrigation well located approximately 0.8 miles south of PW-1 resulted in water level declines of roughly 4.6 feet in MW-1 and 6.8 feet in PW-1 over the course of the irrigation season. Water levels had recovered to within 1.7 feet of pre-irrigation levels in MW-1 and within 1.9 feet of pre-irrigation levels in PW-1 by the March 2021 monitoring event.

It appears a very slight upward hydraulic gradient has been present during the monitoring period.

Electronic records of water level data accompanied the 2020 Monitoring Report. The electronic records are scanned and profiled as an Excel document. Please see PC Docs to view the spreadsheet.

Conclusions

The reporting requirement included in the approved monitoring plan for Permit 61-12090 have been satisfied.