30 September 2025
25-HSE-044

RECEIVED

9/30/2025

OKLAHOMA WATER RESOURCES BOARD

Mr. Jason Tutkowski
Planning and Management Division
Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118

RE: Water Monitoring Plan Report, 2nd Quarter 2025, for Dolese Bros. Co. Davis Quarry, Murray County, Oklahoma

Dear Mr. Tutkowski:

According to the Oklahoma Water Resources Board's Title 785, Chapter 30, Subchapter 15, Part 4, *Mines with Preexisting Exemptions*, Dolese Bros. Co. Davis Quarry qualifies as a mine with a preexisting exemption. As part of maintaining this exemption status, the regulations require us to do the following:

1. Adopt and implement a plan to monitor and report to the Board the accumulation and disposition of pit water during the previous calendar year.
   - The Davis Quarry has adopted and implemented such a plan, and the tables below serve to report to the Board the accumulation and disposition of pit water during 2nd Quarter 2025.
2. Make quarterly and annual reports of the measured or reasonably estimated groundwater and surface water volumes, separately stated, entering the pit, of the water that is diverted from the pit, of the disposition of the water from the pit, and of the consumptive use of the water from the pit on or before the deadlines provided by Title 82 of Oklahoma Statutes, § 1020.2(E)(1).
   - The Davis Quarry has continued to fulfill this obligation by compiling and submitting this 2nd Quarter 2025 report. The specific information requested in this section is outlined in the tables shown below.
3. At any time after March 31, 2015, demonstrate to the satisfaction of the Board within the pertinent report or reports that the mine has not consumptively used during the previous twelve-month period, from the mining site, an amount of groundwater which combined with any amounts used from permitted groundwater wells exceeds the Mine's Equal Proportionate Share (MEPS). Such demonstration may require providing to the Board a copy of the mine's monitoring plan and all the data collected and procedures used to support the calculations and results reported.

- After 31 March 2015, the Davis Quarry will be willing to demonstrate to the Board that the mine site has not consumptively used during the previous twelve-month period from the mining site, an amount of groundwater which combined with any amounts used from permitted groundwater wells exceeds the MEPS. Example calculations used in the First Quarterly Monitoring Report for 2013 have already been submitted to the OWRB for review and analysis.

During the second and third quarters of 2025 our mine pit flooded before we were able to move our dewatering pump out of the pit bottom. This flooding caused our flowmeter to be inaccessible for weeks at a time. We were able to continue pumping and discharged water through our process water outfall. The pump and flowmeter sustained water damage to their electronics during this time, and we had to replace them. This caused us to lose all our data for an extended period.

Our water monitoring plan is built on knowing how much water we cycle from the mine pit to our freshwater lake as well as the amount of water that leaves our process water outfall. Without this data, the formulas are unable to calculate our consumptive use. Fortunately, our consumptive use has historically been low. During periods of heavy rainfall, the concentration of groundwater in our pit water is low. We mainly discharge stormwater when we discharge pit water during these periods.

I was able to gather estimates for our pit and freshwater lake sizes using aerials from our inventory drone around this time. Using these aerials and our freshwater lake elevations shows that the pit and FWL did not have a significant change before and after this period. We can conclude that most of the water discharged during this period was stormwater that was trapped in our pit. Our records show that we accumulated a total of 469.13 acre-feet of stormwater in our FWL and mine pit during the second quarter. Using the average waterbody sizes from the aerials, we can calculate the total evaporation for this period to be a minimum of 9.25 acre-feet. I suspect that this value is low due to the increase in surface area when the pit was flooded. Unfortunately, this increase was not captured by the drone aerials. This results in a net increase of 459.88 acre-feet of water.

In the past, we managed this water by moving our pump and allowing the pit to remain flooded until we absolutely had to discharge pit water. This allowed us to avoid discharging pit water out of process water outfall after large precipitation events. We pumped the water out this time to try to get the pump moved before it was damaged. Using OWRB's Appendix C, I calculated our consumptive use to be 13.73 acre-feet of water during the second quarter of 2025. This number does not consider any stormwater used during this period. I am treating all water used during production as groundwater to overestimate our consumptive use for this quarter. Because we started and ended with our FWL elevation almost the exact same and our waterbody sizes didn't fluctuate, I'm going to estimate that we discharged around the amount of water that we collected from precipitation, a total of 469.13 acre-feet.

I feel this method likely overestimates our use of groundwater for the quarter, but I cannot be certain that we did not use less than this amount. This flooding event has brought some issues with our water monitoring plan to my attention that will be addressed. Our reliance on a few values for our calculations to work is the main issue I see with our plan. I'm going to work to fix this issue and try to ensure our system will allow us to report our consumptive use with the provided Appendix C form instead of our own reports. I've attached Appendix C to this report.

As we have stated for many quarters in our Davis reports, water management has always been and continues to be very important to us at Dolese Bros. Co., especially at the Big Canyon and Davis Quarries. We understand that the Arbuckle Simpson Aquifer is a unique aquifer that must be protected. Our plant personnel make daily efforts to responsibly manage the waters within our quarry boundaries so that when they return to their nearby homes and properties, these same quality waters will be available for their personal and community uses.

Please feel free to contact me if you have any questions or comments concerning this submittal. Thank you.

Sincerely,

Dolese Bros. Co.

Remington Butler

Remington Butler
Environmental Engineer

cc: Mr. Chris Neel, Oklahoma Water Resources Board
Mr. Matt Cogburn, Oklahoma Water Resources Board