



A R K A N S A S
Department of Environmental Quality

AUG 30 2017

John M. Carver
Vice President Safety & Environmental Compliance
El Dorado Chemical Company
P.O. Box 1373
Oklahoma City, Oklahoma 73101

RE: AFIN: 70-00040; CAO LIS 06-153
2016 Annual Groundwater Report for El Dorado Chemical Company
El Dorado, Union County

Dear Mr. Carver:

This letter is in response to the March 27, 2017 El Dorado Chemical Company (EDCC) 2016 Annual Ground Water Report (Report) with additional information submitted August 16, 2017, 2016 in accordance with Consent Administrative Order (CAO) LIS 06-153 Condition 4 and in accordance with letters regarding sampling requirements dated October 2005, June, 2007, September, 2009 and July, 2011. This report summarizes the groundwater sampling events conducted in May and November of 2016 with the exception of well EDMW-14. The area around this well was covered in water during the May sampling events and was sampled in July 2016, after the water had receded.

The Department has reviewed the Report and agrees that the mid-gradient and down-gradient wells that were sampled during these sampling events do not appear to show significantly increasing contaminant trends. These data are generally similar or within the same order of magnitude as previously-collected background well data. Trends over time observed in these wells appear to be decreasing. The highest concentrations at the wells nearest the recovery wells have shown significantly increasing trends over time, (approximately one order of magnitude greater than the down gradient well values within the production area). This indicates that the recovery wells are controlling the production area ground water and keeping these contaminants from migrating out of the production area. However, some of the down-gradient wells have shown ammonia concentrations of greater than 0.55 mg/L (as listed in the Remedial Action Work Plan) as well as other contaminants above clean-up levels during sampling in recent years. Since groundwater flow is to the south-east, shutting off the recovery wells could likely result in the down-gradient movement of contaminants.

EDCC should continue operating the recovery wells and should continue the current sampling and analysis schedule in accordance with the conditions and requirements of the sampling protocol outlined in Consent Administrative Order (CAO) LIS 06-153 and the subsequent sampling requirement letters listed above.

Please note that in the event additional information becomes available, the Department reserves the right to change the monitoring requirements.

Please note that all future correspondence pertaining to EDCC's groundwater remediation should be sent to Linda Hanson, P. G. of this office.

Thank you for your cooperation in this matter. If you have any questions, please contact Ms. Linda Hanson, P.G. at (501) 682-0646 or by e-mail at hanson@adeq.state.ar.us.

Sincerely,

A handwritten signature in black ink, appearing to read 'Caleb Osborne', followed by a horizontal line extending to the right.

Caleb Osborne, Associate Director
Office of Water Quality

CO:lh

cc: Greg Withrow, General Manager, EDCC, gwithrow@edc-ark.com
Lauren Marcella, Project Geologist, EMS, Inc., lmarella@env-mgt.com
Jamal Solaimanian, P.E., Engineer Supervisor
Richard Healey, Enforcement Branch Manager
File (CAO LIS 06-153; AFIN: 70-00040)