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## Central Valley Regional Water Quality Control Board

February 5, 2020

Mr. Sebastian Bahr  
The Chemours Company  
1007 North Market Street, EHS, 5<sup>th</sup>, FL-507-5  
Wilmington, DE 19801

***NOTICE OF TERMINATION FOR GENERAL ORDER NO. R5-2008-0149-057, PLUME 3 IN-SITU REMEDIATION, CHEMOURS OAKLEY SITE, 6000 BRIDGEHEAD ROAD, OAKLEY, CONTRA COSTA COUNTY***

On April 14, 2015, the Executive Officer of the Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) issued a Notice of Applicability under Order No. R5-2008-0149, *General Waste Discharge Requirements for In-situ Groundwater Remediation at Sites with Volatile Organic Compounds, Nitrogen Compounds, Perchlorate, Pesticides, Semi-Volatile Compounds and/or Petroleum Compounds* to the Chemours Company FC, LLC for its Oakley facility. In the Notice of Applicability, the project was assigned site-specific Order No. R5-2008-0149-057.

The primary pollutants of concern in Plume 3 are tetrachloroethene (PCE), PCE daughter products (trichloroethene, cis-1,2-dichloroethene, and vinyl chloride), and arsenic. Injections for the Plume 3 in-situ remediation project were completed in January 2016. Vertical and horizontal injection wells were used to inject a solution of Newmans Zone® Emulsified Vegetable Oil, Neutral Zone® pH Buffer, and bioaugmentation culture mixed with extracted groundwater. In a letter dated December 5, 2019 Chemours requested that Order No. R5-2008-0149-057 be rescinded since the in-situ remediation injections had been concluded and no more injections are planned. Also, monitoring trends generally show geochemical indicators such as dissolved oxygen, oxidation reduction potential, electrical conductivity, dissolved ferrous iron, and dissolved manganese are returning to pre-injection conditions in the injection area.

Central Valley Water Board staff reviewed the remediation data provided in the *Request to Terminate Enrollment and Rescind Waste Discharge Requirements*. Since monitoring results generally show a return to background geochemical conditions, Central Valley Water Board staff concur with Chemour's request to terminate

KARL E. LONGLEY SCD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

enrollment. Central Valley Water Board staff note that as of August 2019, significant concentrations of PCE remain in many Plume 3 monitoring wells, particularly in P3EISB-07 at 3,100 micrograms per liter ( $\mu\text{g/L}$ ), P3EISB-08 at 4,600  $\mu\text{g/L}$ , and P3MNA-03 at 6,200  $\mu\text{g/L}$ . Should additional in-situ remediation be indicated for the remaining pollution, please note that General Order R5-2008-0149 has been replaced by R5-2015-0012.

General Order No. R5-2008-0149-057 is hereby terminated as of the date of this letter. If you have any questions, please contact Nathan Casebeer by telephone at (916) 464-4665, or by email at [Nathan.Casebeer@waterboards.ca.gov](mailto:Nathan.Casebeer@waterboards.ca.gov).

**ORIGINAL SIGNED BY**

Stewart W. Black, P.G.  
Acting Assistant Executive Officer

cc: Ms. Della Kramer, Regional Water Quality Control Board, Rancho Cordova  
Ms. Carolyn Tatoian-Cain, Department of Toxic Substances Control, Sacramento  
Ms. Linda McGlochlin Wolff, Parsons, Walnut Creek