

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING ORDER NO. R5-2017-0820

CALIFORNIA WATER CODE SECTION 13267
FOR
MUNCO INC., CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY,
AND MOSAIC FERTILIZER, LLC
KOPPEL STOCKTON TERMINAL
SAN JOAQUIN COUNTY

This Order is issued to Munco Inc., Chevron Environmental Management Co., and Mosaic Fertilizer, LLC. (hereafter Discharger) pursuant to California Water Code section 13267, which authorizes the Executive Officer of the California Regional Water Quality Control Board, Central Valley Region (hereafter Central Valley Water Board) to issue a Monitoring and Reporting Order (Order).

The Executive Officer finds:

INTRODUCTION

1. The Koppel Stockton Terminal consists of about 9.3 acres divided into three parcels at 2025 West Hazelton Avenue in Stockton. The site includes a warehouse and about 3.5 acres of phytoremediation tree plantings. Historical fertilizer transfer operations resulted in the release of ammonium and nitrate to site soil and groundwater. The named parties owned or operated the facility when fertilizer transfer activities were taking place, and are therefore named in this Order. In 2014, a 1.8-acre parcel containing the stormwater pond was determined to need no further action.
2. The Koppel Stockton Terminal was a transfer site for bulk dry nitrogen and ammonium agricultural amendments. Materials were off-loaded from railcars, stored in the warehouse, transported to the bagging plant, and packed for distribution. Poor housekeeping practices polluted soil and groundwater with nitrate and ammonium. Groundwater is about 8 feet below ground surface. This pollution has impaired the beneficial use of groundwater resources at the site.
3. Since 1998, the Discharger has been maintaining phytoremediation plantings to remove nitrogen from soil and groundwater. In 2013, the Discharger removed trees from the eastern bagging plant area, incorporated about 7 tons of lime and gypsum to amend the soil, and replanted trees.
4. This Monitoring and Reporting Order is issued by the Central Valley Water Board, pursuant to California Water Code (CWC) section 13267 and is necessary to assess the effectiveness of remediation.
5. Existing data and information about the Site show the presence of various chemicals, including nitrate and ammonium, emanating from the property resulting from the Discharger's past operations. The Discharger is responsible for the

discharge because they either owned the property or operated the fertilizer handling facilities at the property.

6. The Discharger shall not implement any changes to this Order unless and until a revised Order is issued by the Executive Officer. This Monitoring and Reporting Order replaces the requirements listed in Order No. R5-2004-0835, which was issued on 10 November 2004.
7. Prior to construction of any new groundwater monitoring or extraction wells, and prior to destruction of any groundwater monitoring or extraction wells, the Discharger shall submit plans and specifications to the Central Valley Water Board for review and approval. Once installed, all new monitoring wells shall be added to the monitoring program and shall be sampled and analyzed according to the schedule provided under the 'Required Actions' section of this Order.

LEGAL PROVISIONS

8. CWC section 13267 states, in part:

(b)(1) In conducting an investigation, the Regional Board may require that any person who has discharged, discharges, or is suspected of having discharged or, discharging, or who proposes to discharge waste within its region . . . shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.

The reports required herein are necessary for the reasons described in this Order, to assure protection of waters of the state, and to protect public health and the environment.

9. CWC section 13268 states, in part:

(a)(1) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of Section 13267 . . . or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).

(b)(1) Civil liability may be administratively imposed by a regional board in accordance with Article 2.5 (commencing with Section 13323) of Chapter 5 for a violation of subdivision (a) in an amount which shall not exceed one thousand dollars (\$1,000) for each day in which the violation occurs.

Failure to submit the required reports to the Central Valley Water Board according to the schedule detailed herein may result in enforcement action(s) being taken against you, which may include the imposition of administrative civil liability pursuant to CWC section

13268. Administrative civil liability of up to \$1,000 per violation per day may be imposed for non-compliance with the directives contained herein.

REQUIRED ACTIONS

IT IS HEREBY ORDERED that Monitoring and Reporting Order No. R5-2004-0835 is rescinded and, pursuant to California Water Code section 13267, Munco, Inc., Chevron Environmental Management Co., and Mosaic Fertilizer, LLC. shall conduct monitoring and reporting in compliance with new Monitoring and Reporting Order No. R5-2017-0820 according to the following:

Monitoring Specifications

1. The Discharger shall implement monitoring according to the schedule shown in Table 1. There are 6 monitoring wells (KP-1R, KP-2, KP-3, KP-9S, KP-10S-R, and KP12S), and 5 piezometers (TG-1, TG-2, TG-3, TG-4, and TG-5) associated with the site as shown in Figure 1. This Monitoring Order applies to these 11 wells and any monitoring wells installed subsequent to the issuance of this Order. The Discharger shall collect samples using standard Environmental Protection Agency (EPA) protocol.

Table 1. Monitoring Frequency

	Annually²	Biennially³
Wells¹	KP-1R, KP-2, KP-3, KP10S-R, TG-1, TG-2, TG-3, TG-4, TG-5, and any new monitoring wells.	KP-9S, and KP-12S

¹ All wells shall be monitored annually in the 3rd quarter for Depth to Groundwater.

² Wells that must be sampled annually shall be sampled during the third quarter (July-September).

³ Wells that must be sampled biennially shall be sampled during the third quarter in even numbered years.

2. The Discharger shall analyze samples according to standard Environmental Protection Agency (EPA) protocol using the methods shown in Table 2.

Table 2. Analytical Methods

Constituents	Analytical Method⁴	Maximum Practical Quantitation Limit⁵
Depth to Groundwater	Field Meter	---
pH, temperature, electrical conductivity	Field Meter	Varies
Nitrate (as nitrogen)	EPA Method 300.0	1 mg/L
Ammonia/ammonium (as nitrogen)	EPA Method 350.1	0.5 mg/L

⁴ Or an equivalent method capable of meeting the maximum practical quantitation limit.

⁵ If the maximum practical quantitation limit is exceeded for a non-detectable result, the Discharger shall provide an explanation in the report text. All concentrations between the Method Detection Limit and the Practical Quantitation Limit shall be reported as trace.

Reporting Specifications

When reporting data, the Discharger shall arrange the information in tabular form so that the date, the constituents, and the concentrations are readily discernible and shall summarize the data in such a manner as to illustrate clearly the compliance with this Order.

1. As required by the California Business and Professions Code sections 6735, 7835, and 7835.1, all reports shall be prepared by a registered professional Civil Engineer or Geologist or their subordinate and shall be signed by the registered professional.
2. Annual electronic reports, which conform to the requirements of the California Code of Regulations, Title 23, Division 3, Chapter 30, shall be submitted electronically over the internet to the State Water Resources Control Board Geotracker database system by **1 November**, or as otherwise indicated by Central Valley Water Board staff, until such time as the Executive Officer determines that the reports are no longer necessary. This Annual Report shall contain an evaluation of the effectiveness and progress of the investigation and remediation, and shall include the following minimum information:
 - (a) A description and discussion of the groundwater sampling event and results, including trends in the concentrations of pollutants and groundwater elevations in the wells, how and when samples were collected, and whether the pollutant plume(s) is delineated.

- (b) Field logs that contain, at a minimum, water quality parameters measured before, during, and after purging, method of purging, depth of water, volume of water purged, etc.
 - (c) Groundwater contour maps for all groundwater zones, if applicable.
 - (d) Isocontour pollutant concentration maps for all groundwater zones and all major constituents of concern, if applicable.
 - (e) A table showing well construction details such as well number, groundwater zone being monitored, coordinates (longitude and latitude), ground surface elevation, reference elevation, elevation of screen, elevation of bentonite, elevation of filter pack, and elevation of well bottom.
 - (f) Cumulative data tables for all major constituents of concern containing the water quality analytical results and depth to groundwater for all monitoring wells for the past five years, if applicable. Older data may be provided in an Appendix. The Central Valley Water Board may request additional data as necessary.
 - (g) A copy of the laboratory analytical data report, which may be provided in the Appendix.
 - (h) If applicable, the status of any ongoing remediation, system operating time, the effectiveness of the remediation system, and any field notes pertaining to the operation and maintenance of the system.
 - (i) An estimate of the mass of pollutants removed from the subsurface during the reporting period, including an estimate of pollutant mass eliminated through in-situ treatment and natural attenuation processes.
 - (j) If applicable, the reasons for and duration of all interruptions in the operation of any remediation system, and actions planned or taken to correct and prevent interruptions.
 - (k) An identification of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
 - (l) If applicable, a proposal and rationale for any revisions to the groundwater sampling plan frequency and/or list of analytes.
3. The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Order also shall be reported to the Central Valley Water Board.

4. The Discharger shall implement the above monitoring program as of the effective date of the Order.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board to review the action in accordance with CWC section 13320 and California Code of Regulations, Title 23, Sections 2050 and following. The State Water Resources Control Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

This Order is effective upon the date of signature.

Ordered by:

For 
PAMELA C. CREEDON, Executive Officer

7/17/17

(Date)

