

California Regional Water Quality Control Board  
North Coast Region

Monitoring and Reporting Program  
Order No R1-2019-0009  
(Rescinds and Replaces Monitoring and Reporting Program No. R1-2015-0014)  
WDID No. 1B04028RSON  
FOR  
ARNOLD CARSTON  
LARRY CARILLO  
S.R. LAND COMPANY, INC  
ARNOLD J. AND GAYLE CARSTON TRUST  
FRANCINE CLAYTON TRUST

Golden Technology  
3017, 3019, and 3033 Santa Rosa Avenue  
Santa Rosa, California

Sonoma County

This Monitoring and Reporting Program Order is issued pursuant to California Water Code section 13267 (b) and requires monitoring of groundwater and submission of technical reports. This MRP also specifies contingency monitoring and reporting requirements for groundwater and requires that these contingency requirements be implemented when analytical results exceed specified threshold levels. The objective of monitoring conducted under this monitoring program is to provide the Discharger and the Regional Water Board with information concerning groundwater quality and pollutant trends at the site, necessitated by the historic discharge of waste to the subsurface, and to demonstrate compliance with the provisions of General Waste Discharge Requirements Order No. R1-2009-0105. The burden, including costs, of these reports bears a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.

This Monitoring and Reporting Program rescinds and replaces Monitoring and Reporting Program Order No. R1-2015-0014.

The failure to furnish any of the required reports, or the submittal of substantially incomplete reports or false information, is a misdemeanor, and may result in additional enforcement actions being taken against the Dischargers, including issuance of an Administrative Civil Liability (ACL) Complaint pursuant to Water Code section 13268. Liability may be imposed pursuant to Water Code section 13268 in an amount not to exceed one thousand dollars (\$1,000) for each day in which the violation occurs.

Under the authority of California Water Code section 13267, the Discharger named above is required to comply with the following:

## GROUNDWATER MONITORING

1. Prior to purging, the depth to groundwater shall be determined to at least 0.01 foot increments in all groundwater monitoring wells associated with this case during each monitoring event.
2. All monitoring wells shall be purged of at least three casing volumes of water, or until dry, prior to sampling. Monitoring wells shall be allowed to recharge to at least 80% of the initial casing volume prior to sampling. All purge water shall be impounded pending analysis for proper disposal. An alternative well-purging protocol may be used upon the written concurrence of the Executive Officer.
3. Per California Water Code section 13176, all laboratory analyses shall be performed at a California certified laboratory. Analytical methods for sample analyses shall achieve practical quantitation limits that are adequate for evaluating regulatory action levels for each constituent.
4. Groundwater samples shall be collected from monitoring wells MW-UA-01, MW-UA-02, MW-UA-03, MW-UA-04, MW-UA-05, MW-UA-06, MW-UA-07, MW-2, MW-3, MW-4, MW-5, MW-6 and PZ-UA-01 semiannually during the first and third calendar quarters. The groundwater samples shall be analyzed for the following volatile organic compounds (VOCs):
  - Benzene
  - 1,1,1-Trichloroethane
  - 1,1-Dichloroethane
  - 1,2-Dichloroethane
  - 1,1-Dichloroethene
  - cis-1,2-Dichloroethylene
  - trans-1, 2-Dichloroethylene
  - Tetrachloroethylene
  - Trichloroethylene
  - 1,2-Dichloropropane
  - Vinyl chloride
5. Groundwater monitoring wells MW-UA-01, MW-UA-02, MW-UA-03, MW-UA-04, MW-UA-05, MW-UA-06, MW-UA-07, MW-2, MW-3, MW-4, MW-5, MW-6 and PZ-UA-01 shall be sampled semiannually. The samples shall be tested for the following:
  - The VOCs listed in Task #4 above.
  - The dissolved metals arsenic, iron, and manganese.
  - The water quality parameters alkalinity, chemical oxygen demand, total organic carbon, dissolved oxygen, oxidation-reduction potential, pH, and temperature.

6. Groundwater samples from monitoring wells PZ-UA-01 and MW-UA-06 shall be tested semiannually for the chemical 1,4-dioxane. Minimum detection levels for the analyses shall be adequate to evaluate dioxane levels greater than or equal to 1.0 micrograms per liter.
7. If groundwater analytical results for any of wells MW-2, MW-3, MW-4, MW-5, or MW-6 exceed pre-injection levels for dissolved iron, manganese, or arsenic by a factor of two (200 %), that monitoring well shall be re-sampled within one month of receipt of the laboratory data. The groundwater sample(s), and subsequent semiannual samples from the well(s) shall be tested for the dissolved metals arsenic, iron, manganese, mercury, and vanadium; and for the water quality parameters alkalinity, chemical oxygen demand, total organic carbon, dissolved oxygen, oxidation-reduction potential, pH, and temperature.

### **REPORTING**

1. Semiannual monitoring reports shall be submitted to the Regional Water Board in accordance with the following schedule:

<u>Reporting Period</u>	<u>Report Due Date</u>
October through March	May 1
April through September	November 1

2. Monitoring data and reports shall be submitted to the Regional Water Board via the State Water Resources Control Board's Geographic Environmental Information Management System database (GeoTracker) as specified in Title 23, Division 3, Chapter 30, Article 2, Sections 3890-3895 of the California Code of Regulations.
3. Monitoring reports shall be prepared by or under the supervision of a California Professional Civil Engineer or Geologist.
4. The groundwater elevation data calculated from the depth to water measurements shall be referenced to the same elevation datum used for GeoTracker.
5. Each annual monitoring report shall include the following elements:
  - a. A narrative description of the work conducted
  - b. Field notes and/or sampling logs documenting such activities as well purging, aquifer parameter testing, well recharge prior to sampling
  - c. Chain-of-custody documentation
  - d. Laboratory reports, including QA/QC data
  - e. An accurately scaled site plan showing all sampling points in relation to significant site features

- f. Groundwater elevation contours plotted at the same scale as the site plan
- g. Groundwater contaminant concentrations plotted at the same scale as the site plan
- h. Tabular results of the depth to groundwater measurements indicating the surveyed elevations of each reference point, depth to groundwater from the reference point, and the actual groundwater elevation referenced to mean sea level.
- i. Data tables summarizing all current and historical analytical data for the site constituents of concern for each sampling station

Ordered by \_\_\_\_\_  
Matthias St. John  
Executive Officer