

California Regional Water Quality Control Board
North Coast Region

Monitoring and Reporting Program Order No. R1-2012-0104

for

Hosokawa Micron International, Inc.
BALCO Properties LLC Ltd.,
150 Todd Road
Santa Rosa, CA

Case No. 1NSO778

Sonoma County

This Monitoring and Reporting Program (MRP) Order No. R1-2012-0104 is issued pursuant to California Water Code Section (CWC) 13267(b) and requires monitoring of groundwater and submission of technical reports for the BEPEX Project (Case No. 1NSO778). Reports are required semiannually for all wells. The objective of monitoring is two-fold: (1) to provide the Dischargers and the Regional Water Board with information concerning groundwater quality and contaminant trends beneath the Site; and (2) determine the hydraulic connection (if any) between the active irrigation well and groundwater monitoring wells for the groundwater pollution plume. There are two irrigation wells at the Site, one is currently active and the other is currently inactive.

Under the authority of CWC Section 13267, the Dischargers named above are required to comply with the following:

MONITORING

1. The depth to groundwater in all wells (12 monitoring and 2 irrigation) shall be determined to at least 0.01 foot increments. Depending upon the laboratory test results from the irrigation wells this monitoring provision may or may not be required for the irrigation wells. If any organic constituents of concern (COCs) are measured in the active or inactive irrigation well then this monitoring provision must be implemented because of the possibility that the active irrigation well may be in hydraulic communication with the monitoring wells and groundwater pollution plume(s). The placement of pressure transducers to collect groundwater levels as a function of time is required in the active and inactive irrigation wells, and four selected monitoring wells (MW-4, MW-9, MW-10, and MW-13) for one hydrologic cycle. Data collected from these wells shall be used to determine hydraulic connectivity (if any) between on-Site wells.

2. Groundwater elevation levels shall be measured in all wells on a quarterly basis. The results of each quarter's groundwater elevation measurement shall be reported in tabular form indicating the surveyed elevations of each well reference point, depth to groundwater from the reference point, and the actual groundwater elevation. The data generated from the elevation readings must be referenced to mean sea level.
3. A total of 12 groundwater monitoring wells (MW-4, MW-5, MW-6, MW-7A, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15) and the two irrigation wells (active and inactive) will be sampled semiannually. If initial laboratory testing of the two irrigation wells show they are not impacted by organic COCs then this monitoring provision will not apply to them but will apply to the 12 groundwater monitoring wells. Collected groundwater samples will be analyzed for field and laboratory analyses. These analyses are specified in Hosokawa Micron International, Inc.'s consultant (AMEC) September 19, 2012 sampling and analysis plan (Plan).
4. The addition of new wells will be monitored for groundwater level and the organic COCs on a quarterly basis for one hydrologic cycle year to establish a baseline and then semiannually thereafter.
5. Field data shall be collected from all wells. These analyses are specified in Hosokawa Micron International, Inc.'s Plan.
6. We understand that investigation-derived waste (IDW) in the form of well purge water will be generated. The Plan identifies how IDW will be managed. Each monitoring effort shall document the volume of discharged purge water and this data shall be in each monitoring reports. All other IDW shall will be controlled and disposed of in a fashion consistent with California laws and regulations. Documentation regarding IDW disposal shall accompany each submitted monitoring report.
7. All implemented work shall be done under the direct supervision of a California-licensed Registered Civil Engineer or Professional Geologist with demonstrated experience in the implementation of monitoring and reporting programs required by the California Regional Water Board.

REPORTING

All field and laboratory information shall be submitted with each report. The reports shall include groundwater elevation contours on a scaled, facility-specific map for each set of groundwater level measurements. The contour maps must show the location of the wells measured, groundwater flow pattern(s) including the direction(s) of the groundwater gradient(s) and magnitude(s). Chemical test results shall be submitted in

tabular format. Monitoring reports shall be submitted to this office in accordance with the following schedule:

<u>Reporting Period</u>	<u>Due Date</u>
First Half of Year (January thru June)	July 30
Second Half of Year (July thru December)	January 30

All data and reports shall be electronically submitted in the proper format to the State Water Resources Control Board's GeoTracker Database and hard copy to our office.

Ordered by _____

Mathias St. John
Executive Officer

September 26, 2012