

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

MONITORING AND REPORTING PROGRAM R8-2023-0008

FOR

IN-SITU REMEDIATION OF SOIL AND GROUNDWATER
AT THE FORMER WEISER LOCK FACILITY
HUNTINGTON BEACH, ORANGE COUNTY

This Monitoring and Reporting Program (MRP) is issued to Masco Building Productions Corporation (Discharger) pursuant to Water Code section 13267. The monitoring requirements in this MRP are necessary to determine if the Discharger is in compliance with Waste Discharge Requirements (WDRs) Order R8-2023-0008 (Order) authorizing in-situ remediation of soil and groundwater at the Former Weiser Lock Facility, 5555 McFadden Avenue in Huntington Beach (Site). The Discharger shall not implement any changes to this MRP unless a revised MRP is issued by the California Regional Water Quality Control Board, Santa Ana Region (Santa Ana Water Board) or its Executive Officer.

A. Monitoring Requirements

1. **Testing and Analytical Methods.** All sampling, sample preservation, transport and analyses must be conducted in accordance with the current edition of "Standard Methods for the Examination of Water and Wastewater" (American Public Health Association) and/or with U.S. Environmental Protection Agency's guidelines for sampling, collection, and preservation, unless other test procedures have been specified in this MRP or by the Executive Officer.
2. **Laboratory Certification.** Unless otherwise permitted by the Executive Officer, all analyses shall be conducted at a laboratory certified to perform such analyses by the State Water Resources Control Board, Division of Drinking Water's Environmental Laboratory Accreditation Program (ELAP). Certified laboratories can be found at the following website:
www.waterboards.ca.gov/elap.
3. **Reporting Levels.** Laboratory data must quantify each constituent down to the approved reporting levels for specific constituents. All analytical data shall be reported with method detection limits (MDLs) and with either the reporting level or limits of quantitation (LOQs) according to 40 Code of Federal Regulations part 136, Appendix B.

4. **Increased Monitoring Frequency.** If the Discharger monitors any pollutants more frequently than required by this MRP, using applicable test procedures, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharger's monitoring report. The increased frequency of monitoring shall also be reported.
5. **Quality Assurance of Data.** Monitoring data collected to meet the requirements of this MRP must be collected and analyzed in a manner that ensures the quality of the data. The Discharger must follow sampling and analytical procedures as specified in the approved Quality Assurance Project Plan (QAPP). Any internal quality control data associated with each sample must be reported when requested by the Executive Officer. The Santa Ana Water Board will reject the quantified laboratory data if quality control data are unavailable or unacceptable.
6. **Instrumentation and Calibration.** All monitoring instruments and devices which are used by the Discharger shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
7. **Representative Sampling.** Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
8. **Daily Samples.** Daily samples shall be collected on each day of the week.
9. **Monthly Samples.** Monthly samples shall be collected on any representative day of each month.
10. **Records Retention.** The Discharger shall assure that records of all monitoring information are maintained and accessible for a period of at least five years from the date of the sample, report, or application. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or by the request of the Executive Officer at any time. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling, and/or measurements;
 - c. The methods used for groundwater purging/sampling;
 - d. The date(s) analyses were performed;
 - e. The individual(s) who performed the analyses;
 - f. The analytical techniques or method used; and
 - g. All sampling and analytical results, including –
 - i. units of measurement used;

- ii. minimum reporting limit for the analysis (minimum level);
- iii. results less than the reporting limit but above the method detection limit (MDL);
- iv. data qualifiers and a description of the qualifiers;
- v. quality control test results (and a written copy of the laboratory quality assurance plan);
- vi. dilution factors, if used; and
- vii. sample matrix type.

B. Monitoring Plan

A sampling station shall be established for each point of discharge and shall be located where representative samples of the discharge can be obtained. The following monitoring wells specified in Table 1 shall be used for the monitoring program. Table 2 provides the monitoring parameters that must be sampled and the required frequency of sampling.

Table 1. Well Information for the Former Degreaser Area

Well ID	Monitoring Location	Latitude	Longitude	TOC Elevation (amsl)^{1,2}
GW-34I	<i>Upgradient Monitoring Well</i>	33.739347	-118.03005	18.17
GW-35D	<i>Upgradient Monitoring Well</i>	33.739335	-118.03003	18.07
INJ-2*INT	<i>Treatment Area Well</i>	33.739164	-118.03018	18.89
GW-36D	<i>Treatment Area Well</i>	33.739107	-118.03018	18.70
EW-5*INT	<i>Treatment Area Well</i>	33.739045	-118.03018	17.47
INJ-3*INT	<i>Downgradient Well</i>	33.739053	-118.03032	18.65
GW-43D	<i>Downgradient Well</i>	33.739069	-118.03046	18.71

Notes:

1. Elevation is measured from the top of the well casing (TOC), above mean sea level (amsl)

2. Elevation in NAVD 88 datum.

*INT Indicates monitoring well screened in the intermediate zone (When not identified by Intermediate zone [I] or Deep zone [D]).

Table 2 Monitoring Parameters and Frequency^{1,3}

Sample Parameters	Parameter Type	Unit	Method of Analysis	Sample Locations	Daily During Construction	Baseline	Weeks 2 and 4	Month 2	Quarters 1 through 8
Field Parameters ²	General Groundwater Parameters	- ²	Field Measurement	<u>INJ-2, INJ-3</u> , EW-5, GW-34I, GW-35D, GW-36D, GW-43D	X	X*	<u>X</u>	<u>X</u>	X*
Volatile Organic Compounds (VOCs) – [Full Suite]	Contaminants of Concern	µg/L	EPA Method 8260B	<u>INJ-2, INJ-3</u> , EW-5, GW-34I, GW-35D, GW-36D, GW-43D	--	X*	<u>X</u>	<u>X</u>	X*
1,4-Dioxane	Contaminant of Concern	µg/L	EPA Method 8270C (M)	<u>INJ-2, INJ-3</u> , EW-5, GW-34I, GW-35D, GW-36D, GW-43D	--	X*	<u>X</u>	<u>X</u>	X*
Alkalinity	Stabilization Reaction Monitoring Parameter	mg/L	EPA Method 2320B	<u>INJ-2, INJ-3</u> , EW-5, GW-34I, GW-35D, GW-36D, GW-43D	--	X*	<u>X</u>	<u>X</u>	X*
Sulfate	Oxidant Reaction Monitoring Parameter	mg/L	EPA Method 300.0	<u>INJ-2, INJ-3</u> , EW-5, GW-34I, GW-35D, GW-36D, GW-43D	--	X*	<u>X</u>	<u>X</u>	X*
Total Dissolved Solids	Stabilization Reaction Monitoring Parameter	mg/L	EPA Method 160.1	<u>INJ-2, INJ-3</u> , EW-5, GW-34I, GW-35D, GW-36D, GW-43D	--	X*	<u>X</u>	<u>X</u>	X*
Major Cations (Ca, Fe, K, Mg, Na, Mn)	Stabilization Reaction Monitoring Parameters	mg/L	EPA Method 6010B/6020	<u>INJ-2, INJ-3</u> , EW-5, GW-34I, GW-35D, GW-36D, GW-43D	--	X*	<u>X</u>	<u>X</u>	X*
Dissolved Metals (aluminum, cadmium, total chromium, selenium)	Stabilization and/or Oxidant Reaction Monitoring Parameter	mg/L	EPA Method 6010B/6020	<u>INJ-2, INJ-3</u> , GW-36D, GW-43D	--	X*	<u>X</u>	<u>X</u>	X*
Hexavalent Chromium	Stabilization and/or Oxidant Reaction Monitoring Parameter	mg/L	EPA Method 218.6	<u>INJ-2, INJ-3</u> , GW-36D, GW-43D	--	X*	<u>X</u>	<u>X</u>	X*

Notes:

Abbreviations: µg/L = micrograms per liter, mg/L = milligrams per liter, µS/cm = microsiemens per centimeter, mV = millivolts, NTU = nephelometric turbidity units, °F = degrees Fahrenheit.

- Monitoring parameters and frequency are subject to modification by the Executive Officer. Minimum of eight quarterly events are required.
- Field parameters include pH (standard unit), oxidation-reduction potential (mV), dissolved oxygen (mg/L), electrical conductivity (µS/cm), turbidity (NTU), and temperature (°F).
- X denotes sampling and analysis for the underlined wells only
 * denotes an exception for sampling GW-34I and GW-35D at baseline, Quarter 4 and Quarter 8 (i.e. baseline and annually thereafter).

C. Reporting Requirements

1. Quarterly monitoring reports shall include, at a minimum, the following:
 - a. **Cover Letter.** A transmittal letter summarizing the essential points in the report.
 - b. **Summary of Monitoring Data.** Discharge monitoring data shall be submitted in a format that is acceptable to the Executive Officer and must be arranged in a manner that clearly demonstrates compliance and/or noncompliance with this Order. Monitoring results shall be reported in a tabulated format which identifies all applicable chemical constituents required to be analyzed under the monitoring program and presents the associated sample collection dates and analytical detections for each compound in relation to waste discharge limitations and requirements established by the Order.
 - c. **Compliance Summary.** For every item of monitoring data where the requirements are not met, the monitoring report shall include a statement discussing the reasons for noncompliance, and of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time, and an estimate of the date when the Discharger will be in compliance. The Discharger shall notify the Executive Officer by letter when compliance with the time schedule has been achieved.
 - d. **Recommended Program Changes.** Conclusions and recommendations regarding continuation of the existing monitoring program or any proposed modifications thereto shall be clearly presented for agency consideration, along with appropriate supporting justification or rationale.
2. As specified in Provision D.11 of the Order, all reports, plans and documents required under the Order and this MRP shall be prepared under the direction of appropriately qualified professionals. The lead professional performing engineering and geologic evaluations and judgments shall sign and affix their professional geologist or civil engineering license stamp to all technical reports, plans or documents submitted to the Santa Ana Water Board.
3. As specified in Provision D.12 of the Order, all reports and/or information submitted to the Executive Officer shall be signed by a responsible officer or duly authorized representative of the Discharger and shall be submitted under penalty of perjury.
4. All monitoring reports submitted to the Executive Officer in compliance with this MRP in paper copy format must also be submitted electronically via the Internet

into the State Water Board's GeoTracker database. To comply with state regulations, the update to the GeoTracker database must include the following minimum information:

- a. The elevation of groundwater in any permanent monitoring well relative to the surveyed elevation.
- b. A site map or maps showing the location of all sampling points referred to in the report.
- c. The depth to the screened interval and the length of screened interval of any permanent monitoring well.
- d. Boring logs, in PDF format.
- e. Laboratory analytical data from any soil testing and/or groundwater monitoring shall be reported in Electronic Deliverable Format (EDF) in accordance with Water Code section 13195 et seq. requirements, if applicable.
- f. A complete copy of the report, in PDF format, which includes the signed transmittal letter and professional certification.

The GeoTracker website address is: <https://geotracker.waterboards.ca.gov>.
Deadlines for electronic submittals are the same as deadlines for paper copy submittals.

D. Report Schedule

Monitoring reports shall include all data collected during the monitoring period, and shall be submitted on a quarterly basis to Santa Ana Water Board staff in accordance with the following schedule:

Monitoring Period	Report Due
January – March	May 1
April – June	August 1
July – September	November 1
October – December	February 1

The Executive Officer has the authority to change the report submittal schedule, if deemed necessary, based on changes to the Site conditions.

Monitoring reports shall be submitted:

To: Executive Officer
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501

I, JAYNE JOY, Executive Officer, hereby certify that the following is a full, true, and correct copy of the Monitoring and Reporting Program adopted by the California Regional Water Quality Control Board, Santa Ana Region, on May 5, 2023.

JAYNE JOY, P.E.
Executive Officer

ENFORCEMENT

The Santa Ana Water Board reserves the right to take any enforcement action authorized by law. Accordingly, failure to timely comply with any provisions of this Monitoring and Reporting Program may subject the Discharger to enforcement action. Such actions include, but are not limited to, the assessment of administrative civil liability pursuant to Water Code sections 13323, 13268, and 13350, a Time Schedule Order (TSO) issued pursuant to Water Code sections 13300 and 13308, or referral to the California Attorney General for recovery of judicial civil liability. Failure to comply with this Monitoring and Reporting Program may result in the assessment of administrative civil liability of up to \$10,000 per violation, per day, depending on the violation.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Santa Ana Water Board action may petition the State Water Board for review in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; if the 30th day falls on a Saturday, Sunday or state holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. The law and regulations applicable to filing petitions are available on the [State Water Board website \(http://www.waterboards.ca.gov/public_notices/petitions/water_quality\)](http://www.waterboards.ca.gov/public_notices/petitions/water_quality). Copies will also be provided upon request.