

## Los Angeles Regional Water Quality Control Board

July 19, 2017

Mr. Luis A. Cayo  
Sr. General Manager  
Los Angeles Brewery  
15800 Roscoe Boulevard  
Van Nuys, CA 91406

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  
CLAIM NO. 7016 0750 0000 3359 6288

**REVISED MONITORING AND REPORTING PROGRAM NO. 10197 – ANHEUSER-BUSCH, LOS ANGELES BREWERY, 15800 ROSCOE BOULEVARD, VAN NUYS, CALIFORNIA (FILE NO. 09-032, ORDER NO. 2012-0010-DWQ, SERIES NO. 003, CI NO. 10197, GLOBAL ID WDR100000237)**

Dear Mr. Cayo:

On December 16, 2015, the California Regional Water Quality Control Board, Los Angeles Region (Regional Board), enrolled you under State Water Resources Control Board, Water Quality Order No. 2012-0010-DWQ (Order No. 2012-0010-DWQ), Series No. 003, with Monitoring and Reporting Program (MRP) No. CI-10197 for extraction and injection testing using potable water at well A/B IW-1, at the site noted above.

On January 19, 2017, AECOM submitted the January 19, 2017, *Deep Well Injection Testing Work Plan* (Revised Work Plan), on behalf of the Anheuser-Busch, Los Angeles Brewery. The Revised Work Plan proposes a series of extraction and injection (potable water) tests, to provide data to evaluate the ability of recently installed injection well A/B IW-1, and the domestic drinking water aquifer where the well is screened, to accept up to 1.2 million gallons per day of treated brewery wastewater. The Revised Work Plan includes tasks to monitor the effects of injection and extraction on the distribution of existing groundwater contaminants, and proposes sampling groundwater during the tests at several additional monitoring wells not included under the December 16, 2015 MRP, in addition to the wells included under that MRP. The Revised Work Plan was conditionally approved on June 20, 2017.

The existing December 16, 2015, MRP, required groundwater sampling from shallow monitoring wells VMW-01A and VMW-01B, deep monitoring well A/B MW-1, and (during extraction only) deep injection well A/B IW-1 (Figure 1). The January 19, 2017, Revised Work Plan proposed the addition of groundwater sampling at shallow wells MW-01, MW-02, MW-04, MW-06, MW-08, MW-13R, in addition to wells VMW-01A, VMW-01B, and deep wells A/B MW-1, and (during extraction only) A/B IW-1. Based on the Revised Work Plan the MRP is hereby revised (attached).

The Discharger shall comply with the Electronic Submittal of Information (ESI) requirements by submitting all reports required under the MRP, including groundwater monitoring data, discharge location data, and pdf monitoring reports to the State Water Resources Control Board GeoTracker database under Global ID WDR100000237.

Please see Electronic Submittal for GeoTracker Users, dated December 12, 2011 at:

Mr. Luis A. Cayo  
Anheuser-Busch  
Los Angeles Brewery

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July 19, 2017

<http://www.waterboards.ca.gov/losangeles/resources/Paperless/Paperless%20Office%20for%20OGT%20Users.pdf>

To avoid paying future annual fees, please submit a written request for termination of your enrollment under the general permit in a separate letter, when your project has been completed and the permit is no longer needed. Be aware that the annual fee covers the fiscal year billing period beginning July 1 and ending June 30, the following year. You will pay the full annual fee if your request for termination is made after the beginning of the new fiscal year beginning July 1.

If you have any questions, please contact the Project Manager, Mr. Peter Raftery at (213) 620-6156 ([peter.raftery@waterboards.ca.gov](mailto:peter.raftery@waterboards.ca.gov)) or the Groundwater Permitting Unit Chief, Dr. Eric Wu at (213) 576-6683 ([eric.wu@waterboards.ca.gov](mailto:eric.wu@waterboards.ca.gov)).

Sincerely,

  
Samuel Unger, P.E.  
Executive Officer

Enclosures:

- 1) Figure 1, Site Map with wells
- 2) Revised Monitoring and Reporting Program No. CI-10197

cc (via email):

Mr. Faraz Asad, State Board, Division of Drinking Water  
Mr. Randy Barnard, State Board, Division of Drinking Water  
Mr. Brian Bernados, State Board, Division of Drinking Water  
Mr. Efuk Erdal, AECOM  
Mr. Michael Hanson, Los Angeles Department of Water and Power  
Mr. Taras Kruk, AECOM  
Mr. Richard Mohr, AECOM  
Mr. Jon Mueller, Anheuser Busch  
Mr. Richard C. Slade, Upper Los Angeles River Area Watermaster  
Mr. Kurt Souza, State Board, Division of Drinking Water  
Ms. Michelle Tsiebos, County of Los Angeles Environmental Health

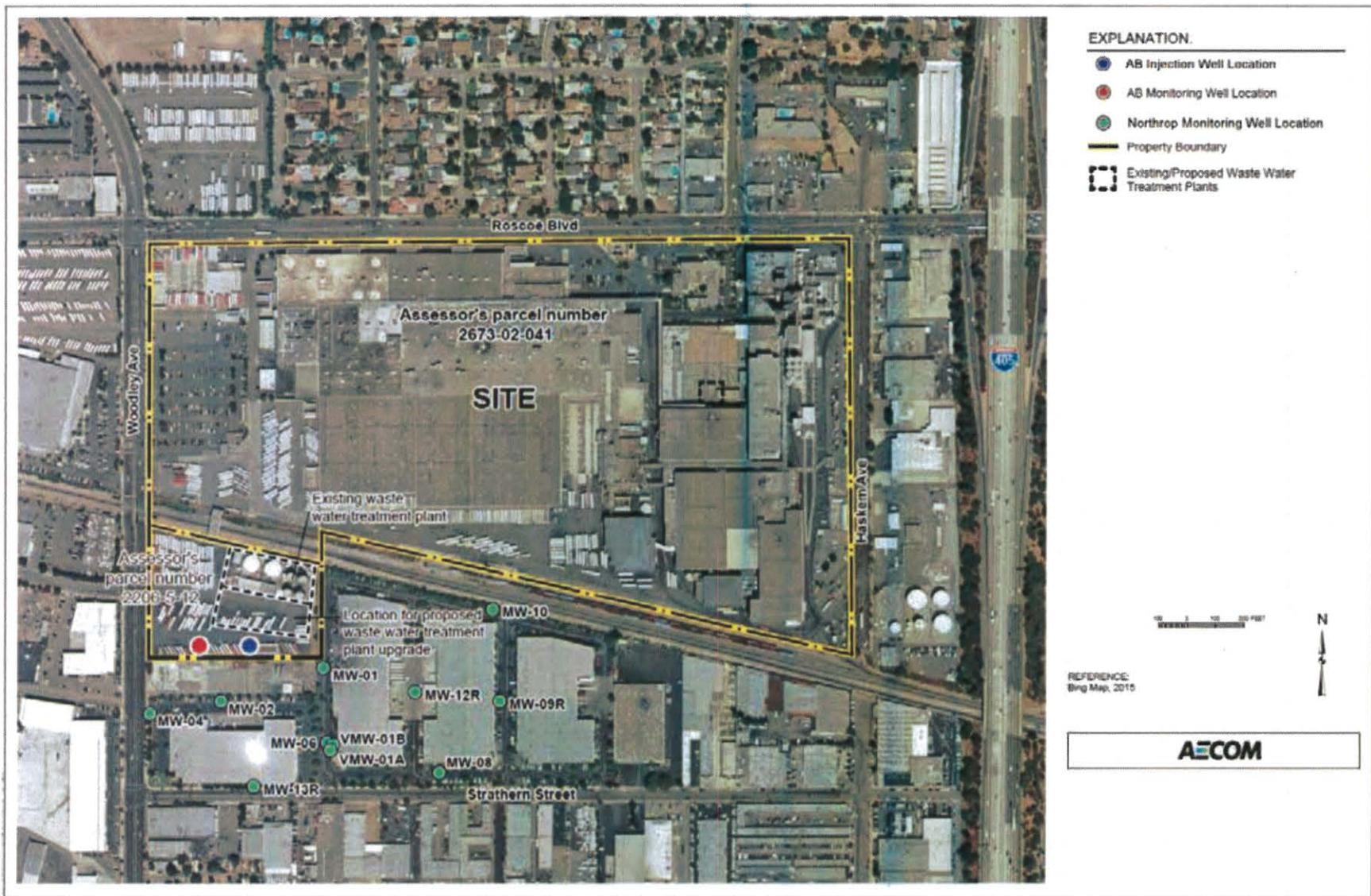


FIGURE 1: Site Map with wells - Anheuser-Busch Brewery, Van Nuys

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION**

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(213) 576-6660 • Fax (213) 576-6640  
<http://www.waterboards.ca.gov/losangeles/>

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**REVISED MONITORING AND REPORTING PROGRAM CI NO. 10197  
FOR  
AQUIFER EXTRACTION AND INJECTION TESTING  
ANHEUSER-BUSCH, LLC'S  
ANHEUSER-BUSCH LOS ANGELES BREWERY  
15800 ROSCOE BOULEVARD  
VAN NUYS, CALIFORNIA 91406**

**ENROLLMENT UNDER STATE BOARD  
WATER QUALITY ORDER NO. 2012-0010-DWQ (SERIES NO. 003)  
FILE NO. 09-032**

**I. SUBMITTAL OF REPORTS**

1. Anheuser-Busch, LLC (Discharger) shall implement this revised Monitoring and Reporting Program (MRP) for the site noted above at 15800 Roscoe Boulevard, Van Nuys, California (Figure 1), on the effective date of this enrollment (July 19, 2017). The Discharger must comply with the Electronic Submittal of Information (ESI) requirements by submitting all reports required under this MRP, including electronic data format (EDF) effluent and groundwater monitoring data, use of recycled water data, discharge location data, and other monitoring data, to the State Water Resources Control Board (State Water Board) GeoTracker database under Global ID WDR100000237 on the dates indicated as follows:

**A. Semiannually Monitoring Reports** shall be received at the Regional Board by the 30<sup>th</sup> day of the second month following the end of each monitoring period according to Table 1. The first monitoring report under this program shall be received at the Regional Board by **August 31, 2017**.

**Table 1. Reporting Period and Due Dates**

Reporting Period	Report Due
January - June	August 31
July - December	February 28

**B. Annual Summary Report** shall be received at the Regional Board **March 1** of each year. The first Annual Summary Report under this program shall be received at the Regional Board on **March 1, 2018**.

2. If there is no discharge during any reporting period, the report shall so state.
3. For every item where the requirements are not met, the Discharger shall submit a statement of cause(s), actions undertaken and/or proposed which will bring the discharge into full compliance with waste discharge requirements at the earliest possible time, and a timetable for implementing those actions.
4. The Discharger shall maintain all sampling and analytical results, including the exact

location, date, and time of sample collection; date(s) of analyses; analyst's name; analytical techniques used; and all analytical results (including strip charts). Such records shall be retained for a minimum of 3 years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.

5. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, the concentrations, and other pertinent information are readily discernible. The data shall be summarized to demonstrate compliance with the requirements and, where applicable, shall include results of receiving water observations.
6. Any mitigation/remedial activity including any pre-discharge treatment conducted at the site must be reported in the quarterly monitoring report.
7. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and the corrective actions taken or planned, that may be needed to bring the discharge into full compliance with WDRs. This section shall be located at the front of the report and shall clearly list all instances of non-compliance with discharge requirements, as well as all excursions beyond effluent limitations.

## II. MONITORING REQUIREMENTS

1. Monitoring shall be used to determine compliance with the requirements of this Order and shall include, but need not be limited to, the following:
  - A. Locations of each groundwater monitoring station where representative samples can be obtained and the rationale for the selection. The Discharger must include a map, at a scale of 1 inch equals 1,200 feet or less, that clearly identifies the locations of all monitoring wells, and production wells.
  - B. Sampling protocols (specified in 40 Code of Federal Regulations (CFR) Part 136 or American Water Works Association (AWWA) standards where appropriate) and chain of custody procedures.
  - C. For groundwater monitoring, outline the methods and procedures used for measuring water levels; purging wells; collecting samples; decontaminating equipment; containing, preserving, and shipping samples; and maintaining appropriate documentation. Also, include a description of the procedures for handling, storing, testing, and disposing of purge and decontamination waters generated from the sampling events.
  - D. For the laboratory or laboratories which conducted the analyses include copies of all laboratory certifications by the State Board, Division of Drinking Water (SWRCB-DDW) Environmental Laboratory Accreditation Program (ELAP) every year or when the Discharger changes their contract laboratory.
  - E. Analytical test methods used and the corresponding detection limits for purposes

of reporting (DLRs) unregulated and regulated chemicals. For regulated chemicals, please see the State Board's website at:  
[http://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/Chemicalcontaminants.shtml](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Chemicalcontaminants.shtml)

- F. Quality assurance and control measures.
2. Unless specified differently below, the samples shall be analyzed using analytical methods described in 40 CFR Part 136; or where no methods are specified for a given pollutant, by commercially available methods approved by the Regional Board and/or State Board. The Discharger shall select the analytical methods that provide DLRs lower than the limits prescribed in this Order.
  3. The Discharger shall instruct its laboratories to establish calibration standards so that the DLRs (or its equivalent if there is a different treatment of samples relative to calibration standards) are the lowest calibration standard. At no time shall the Discharger use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
  4. Upon request by the Discharger, the Regional Board, in consultation with the State Board Quality Assurance Program, may establish DLRs, in any of the following situations:
    - A. When the pollutant has no established method under 40 CFR 136 (revised May 14, 1999, or subsequent revision);
    - B. When the method under 40 CFR 136 for the pollutant has a DLR higher than the limit specified in this Order; or,
    - C. When the Discharger agrees to use a test method that is more sensitive than those specified in 40 CFR Part 136 and is commercially available.
  5. For unregulated chemical analyses, the Discharger shall select methods according to the following approach:
    - A. Use drinking water methods, if available;
    - B. Use State Board-recommended methods for unregulated chemicals, if available;
    - C. If there is no State Board-recommended drinking water method for a chemical, and more than a single Environmental Protection Agency (EPA)-approved method is available, use the most sensitive of the EPA-approved methods;
    - D. If there is no EPA-approved method for a chemical, and more than one method is available from the scientific literature and commercial laboratory, after consultation with the State Board, use the most sensitive method;
    - E. If no approved method is available for a specific chemical, the Discharger's

laboratory may develop or use its own methods and should provide the analytical methods to the State Board for review. Those methods may be used until State Board recommended or EPA-approved methods are available.

- F. If the only method available for a chemical is for wastewater analysis (e.g., a chemical listed as a priority pollutant only), sample and analyze for that chemical in the treated and disinfected effluent immediately to increase the likelihood of detection. Use this approach until the Discharger's laboratory develops a method for the chemical in drinking water, or until a State Board-recommended or EPA-approved drinking water method is available.
- G. The Discharger is required to inform the Regional Board, in event that D, E, or F is occurring.

### **III. AQUIFER EXTRACTION TEST MONITORING REQUIREMENTS**

The quarterly reports shall contain the following information regarding the extraction activities:

1. Clearly legible map showing the extraction well and observation wells.
2. Type of extraction test used.
3. Total volume of water extracted.
4. Pressure profiles at all observation wells, recorded before, during and after the test.
5. Extraction well flowrate, water levels and corresponding times.
6. The calculated transmissivity, hydraulic conductivity, and specific storage.

### **IV. AQUIFER POTABLE WATER INJECTION TEST MONITORING REQUIREMENTS**

The quarterly reports shall contain the following information regarding the potable water injection activities:

1. Clearly legible map showing potable water injection well and observation wells.
2. Written summary defining:
  - Total volume of potable water injected; and
  - Potable water injection flow rates

### **V. GROUNDWATER MONITORING PROGRAM**

A groundwater level and groundwater quality monitoring program shall be implemented for the potable water injection and extraction aquifer tests. The groundwater level monitoring program (using temporary pressure transducers) shall utilize wells A/B MW-01 (four screened intervals to be monitored individually for groundwater levels and groundwater quality), MW-1, MW-02, MW-04, MW-06, MW-08, MW-13R, VMW-01A, VMW-01B, and extraction/injection well A/B IW-1 (during extraction). The pressure transducer(s) shall be programmed to monitoring groundwater levels frequently, at a regular interval. The transducers shall be deployed and recording 1 week prior to set up for each test to collect baseline data and shall remain deployed and recording through the end of 1 week following the 24-hour constant rate injection test to monitor recovery. If there is a significant time break between the period of extraction tests and the period of injection tests, the transducers

may be shut off for the portion of that period up to 1 week before the start of the next test period.

Groundwater levels shall be periodically collected manually from the monitoring network to verify the accuracy of the transducer data. Table 2 provides the list of groundwater level observation and groundwater quality sampling wells for each aquifer injection and extraction test.

The groundwater monitoring wells to be sampled are shown on Figure 1. Table 2 lists the groundwater quality sampling locations. The first groundwater sampling event will be conducted prior to injection aquifer testing. The second groundwater sampling event will be completed within 6 months of completing the aquifer testing.

**Table 2. Groundwater Monitoring Locations**

<b>Well Name</b>	<b>Aquifer Test Water Level Observation Well</b> Automated recording starts 7 days prior to pumping	<b>Groundwater Quality Sampling Location</b> 7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
MW-01	X	X
MW-02	X	X
MW-04	X	X
MW-06	X	X
MW-08	X	X
MW-13R	X	X
VMW-01A	X	X
VMW-01B	X	X
A/B MW-1 (deep monitoring well with four screened intervals)	X  <b>Four transducers. Each centered in one of four screened intervals</b>	X  <b>At each of four screened intervals</b>
A/B IW-1 (deep extraction/injection well with four screened intervals)	X  <b>During Extraction Only Transducer at depth of pump inlet</b>	X

Table 3 below identifies the constituents that shall be analyzed for during each sampling event.

**Table 3. Groundwater Monitoring Constituents**

<b>Constituent</b>	<b>Units<sup>1,2</sup></b>	<b>Type of Sample</b>	<b>Minimum Frequency of Analysis</b>
Water Temperature	°C	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Dissolved Oxygen	mg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
pH	pH units	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Oxidation-Reduction Potential	mV	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
VOCs	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
1,4-Dioxane	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Anions (SO <sub>4</sub> , Cl, NO <sub>3</sub> , F)	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Title 22 Metals (Dissolved) <sup>2</sup>	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Total Metals (Mg, K, Na, Ca, Ba, B, Sr) <sup>2</sup>	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Hexavalent Chromium (dissolved)	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Alkalinity	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends

**Table 3. Groundwater Monitoring Constituents**

<b>Constituent</b>	<b>Units<sup>1,2</sup></b>	<b>Type of Sample</b>	<b>Minimum Frequency of Analysis</b>
Manganese (dissolved)	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Ferrous Iron <sup>3</sup>	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Sulfide	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Total Organic Carbon	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Total Dissolved Solids	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Nitrate-Nitrogen	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Nitrite-Nitrogen	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Methane, Ethane, Ethene	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Conductivity <sup>4</sup>	µS/cm	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
Perchlorate	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
NDMA	ng/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends

**Table 3. Groundwater Monitoring Constituents**

Constituent	Units <sup>1,2</sup>	Type of Sample	Minimum Frequency of Analysis
EFH – Gasoline	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends
EFH – Diesel	µg/L	Low-flow sample	7 and 3 days prior to pumping, 20 hours into the 24-hour constant rate extraction test, 3 and 7 day after injection ends

**Footnotes:**

1) °C= degrees Celsius; mg/ = milligrams per liter; µg/L= micrograms per liter; ng/L= nanograms per liter; mV= millivolts; µS/cm= microSiemens per centimeter

2) Laboratory Detection Limits must be ≤ the constituent’s MCL (when available)

B = boron  
 Ba = barium  
 Ca = calcium  
 Cl = chloride  
 F = fluoride  
 K = potassium  
 Mg = magnesium  
 NO<sub>3</sub> = nitrate  
 SO<sub>4</sub> = sulfate

Sr = Strontium  
 EFH = extractable fuel hydrocarbons  
 EPA = U.S. Environmental Protection Agency  
 MCL = Maximum Contaminant Level  
 NDMA = N-nitrosodimethylamine  
 TCP = trichloropropane  
 TDS = total dissolved solids  
 VOA = volatile organic analysis  
 VOC = volatile organic compound

All groundwater monitoring reports must include, at minimum, the following:

- a. Well identification, date and time of sampling;
- b. Sampler (person) identification, and laboratory identification;
- c. Monthly measurement of groundwater levels, recorded to 0.01 feet mean sea level.

**V. GENERAL REPORTING AND REPORTING REQUIREMENTS**

1. The Dischargers shall comply with all Standard Provisions related to monitoring, reporting, and recordkeeping.
2. For every item where the requirements are not met, the Dischargers shall submit a statement of the actions undertaken or proposed that will bring the treated effluent and/or treated effluent used for the recycled water program into full compliance with requirements at the earliest possible time, and submit a timetable for implementation of the corrective measures.
3. Monitoring reports shall be signed by either the principal Executive Officer or ranking elected official. A duly authorized representative of the aforementioned signatories may sign documents if:
  - A. The authorization is made in writing by the signatory;

- B. The authorization specifies the representative as either an individual or position having responsibility for the overall operation of the regulated facility or activity; and,
  - C. The written authorization is submitted to the Executive Officer of this Regional Board.
4. The monitoring report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the \_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_.

\_\_\_\_\_ (Signature)

\_\_\_\_\_ (Title)"

5. The Dischargers shall retain records of all monitoring information, including all calibration and maintenance, monitoring instrumentation, and copies of all reports required by this Order, for a period of at least three (3) years from the date of sampling measurement, or report. This period may be extended by request of the Regional Board at any time and shall be extended during the course of any unresolved litigation regarding the regulated activity.
6. 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 or measurements;
  - C. The date(s) analyses were performed;
  - D. The individual(s) who performed the analysis;
  - E. The analytical techniques or methods used; and
  - F. The results of such analyses.

7. The Dischargers shall submit to the Regional Board, together with the first monitoring report required by this Order, a list of all chemicals and proprietary additives that could affect the quality of the treated effluent and the treated effluent used for recycled water, including quantities of each. Any subsequent changes in types and/or quantities shall be reported promptly. An annual summary of the quantities of all chemicals, listed by both trade and chemical names, which are used in the treatment process shall be included in the annual report.

## VI. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.

## VII. PUBLIC DOCUMENTS

All records and reports submitted in compliance with State Water Board Water Quality Order No. 2012-0010-DWQ and Revised Monitoring and Reporting Program CI No. 10197 are public documents and will be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region, upon request by interested parties. Only proprietary information, and only at the request of the Discharger will be treated as confidential.

Ordered by:   
Samuel Unger, PE  
Executive Officer

Date: July 19, 2017

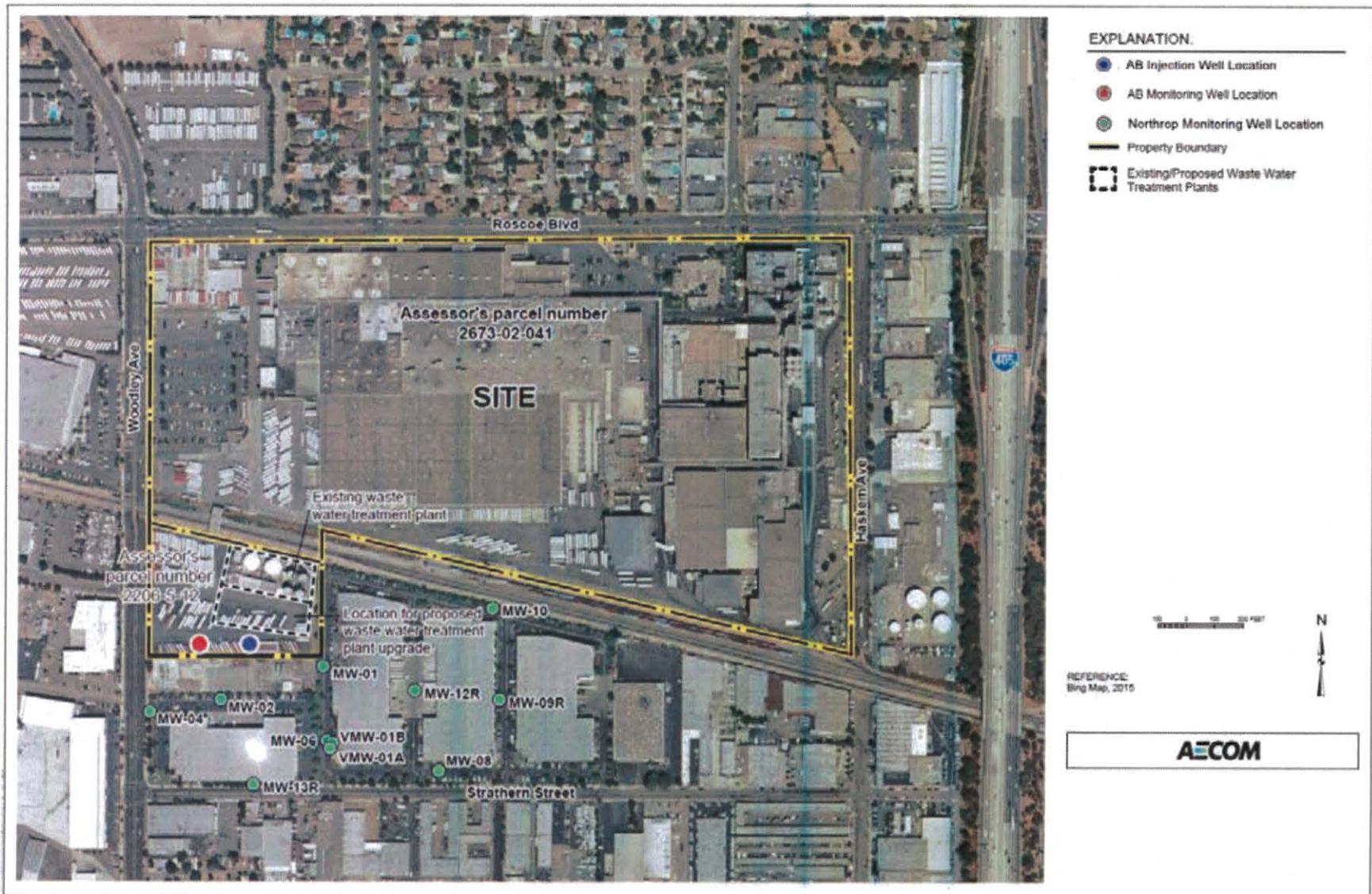


FIGURE 1: Site Map with wells - Anheuser-Busch Brewery, Van Nuys