

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION**

**CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS  
NO. R6V-2012-(TENTATIVE)  
WDID NO. 6B360105004**

**FOR**

**VICTORVILLE WATER DISTRICT  
AND  
HIGH DESERT POWER PROJECT LIMITED LIABILITY CORPORATION,  
HIGH DESERT POWER PLANT - GROUNDWATER BANKING OPERATION**

San Bernardino County

**WHEREAS** the California Regional Water Quality Control Board, Lahontan Region, (Water Board) finds:

1. The High Desert Power Project Limited Liability Corporation (HDPP) and Victorville Water District (together referred to as the "Dischargers") operate a water treatment plant, water distribution system and a series of four groundwater injection/extraction wells as part of an aquifer banking system (Facility) to supply water for the High Desert Power Plant (Power Plant). The Facility treats State Water Project (SWP) water from the California Aqueduct (source water) and injects the treated water into the groundwater (receiving water) for backup use by the power plant cooling system when aqueduct source water is not directly available. The source water that is injected for storage in the aquifer contains inorganic constituents, primarily Total Dissolved Solids (TDS), at higher concentrations than the receiving water and these constituents are considered to be wastes. Over time, these waste constituents will accumulate in the receiving water near the Facility injection wells. This accumulation will result in a degradation of the receiving water quality. No other on-site waste disposal is planned. Wastes from water treatment consisting of concentrated brine sludge and residue are disposed offsite.
2. The Facility is located on both federal and municipally owned property. The water treatment plant is located on the federally owned Southern California Logistics Airport (SCLA) Property on the former George Air Force Base at 1900 Perimeter Rd, Victorville, CA 92304. The Victor Valley Economic Development Authority leases SCLA from the Air Force. On October 25, 2000, the Victor Valley Economic Development Authority assigned rights to the lease over to the City of Victorville Southern California Logistics Airport Authority (SCLAA). SCLAA leases the site to the High Desert Power Trust. The water delivery, water injection, and water extraction portions of the facility are located on property owned by the City of Victorville. The Victorville City Water District owns and operates the four injection/extraction wells located on lots identified by Assessor Parcel Numbers (APN): 0395-272-01, 3104-372-01, 3104-402-84, 3104-231-04, and connecting pipeline.

3. In accordance with the California Energy Commission (CEC) Condition of Certification, as amended on November 18, 2009, HDPP is required to inject source water into the aquifer groundwater when an excess of source water is available. A cumulative of 13,000 acre-feet (AF) of treated source water is to be banked for use when source water is unavailable, such as during maintenance of the California Aqueduct, during times of drought, or when source water is otherwise unavailable. Under the previous Waivers: Board Order R6V-2007-0014 and Board Order R6V-2002-0010, the Dischargers banked a net volume of 4,528.8 AF of water, with a total of 6,239.7 AF injected into four wells between January 2002 and May 2011, and a total of 1710.9 AF extracted.
4. The Dischargers submitted a Report of Waste Discharge (ROWD) on June 13, 2011. Pursuant to the California Water Code, Section 13269(a) the Water Board may waive Waste Discharge Requirements (WDRs) for projects that have filed a ROWD. Such Waivers must: 1) be consistent with the Water Quality Control Plan for the Lahontan Region (Basin Plan), 2) be in the public interest, 3) not exceed five years in duration; 4) be conditional and able to be terminated at any time by the Regional Board, and 5) require individual, group, or watershed-based monitoring to support the development and implementation of the waiver program, including verifying the adequacy and effectiveness of the waiver's conditions. The Water Board finds that is not against the public interest to conditionally waive WDRs for the Facility provided that the conditions and monitoring criteria established in this waiver are met.
5. Source water from the California Aqueduct is treated with conventional technology (coagulation, sedimentation, and filtration) to remove suspended solids, settleable solids, turbidity and pathogens larger than 0.005 microns in diameter prior to injection into the receiving water. The water treatment system includes a clarifier, a multimedia filter, an ultrafiltration (UF) system, and an Ultraviolet (UV) disinfection system. The UF system removes ultra-fine particles, including pathogens, from the water. This UF water is then stored in a storage tank. Pumps deliver water from the storage tank to the aquifer storage and recovery well field. UV disinfection was installed in July 2007 at the pump station to provide an alternative to disinfection by chlorination in order to reduce potential contamination by disinfection bi-products such as trihalo methanes (THMs). Since installation of the UV lights, chlorination has not been used for disinfection. The option of using chlorination is retained for use on an "as needed basis" should bio-fouling occur in the delivery pipes between the treatment system and the injection wells at the Facility. Treated source water is continually monitored for TDS and water that exceeds an instantaneous maximum concentration of 400 mg/L TDS is diverted to other uses, such as cooling, and is not injected into the receiving water.
6. The HDPP also produces a concentrated brine slurry and a solid salt residue that can be classified as "designated" wastes under Title 27 of the California Code of Regulations (CCR), if not properly managed, and violate water quality objectives. This Waiver requires that the salt residue from evaporative cooling water be adequately characterized and disposed into a waste management unit capable of accepting designated wastes and meeting the requirements of Title 27.

7. A summary of data compiled from analyses of water samples taken prior to injection to four injection wells, water extracted from the same four wells and water extracted from four drinking water wells within two miles of the injection sites between January 2007 and May 2011 shows that TDS, consisting primarily of sodium chloride, increases in groundwater near the injection wells. Disinfection by-products have been detected in groundwater near the injection wells, however these concentrations are expected to decrease now that UV disinfection has been implemented.

A groundwater modeling report was submitted by the HDPP in conjunction with the initial ROWD that evaluated the hydraulic and groundwater quality changes resulting from injection scenarios. The possible degradation of groundwater in the area of injection wells over a 30-year duration was analyzed using solute fate and transport models (USGS, MT3D99, MODFLOW). The three simulations of the discharges that were modeled with MODFLOW were based on assumed quality of the source water based on historical monitoring data and three different proposed total injection volumes. Of the three potential scenarios modeled by MODFLOW, the "worst case" annual scenario predicted that receiving water concentrations of TDS may increase 200 to 250 mg/L above background concentrations in the aquifer near each of the injection wells. The results also indicated that the lateral extent of these changes would be limited to approximately 1800 feet from each of the four injection/extraction wells.

8. In accordance with State Water Resources Control Board (State Water Board) Resolution No. 68-16 (*Statement of Policy With Respect to Maintaining High Quality of Waters in California*) and the Water Quality Control Plan for the Lahontan Region (Basin Plan) water degradation may be allowed if the following conditions are met: 1) any change in water quality must be consistent with maximum benefit to people of the State; 2) the discharge will not unreasonably affect present and anticipated beneficial uses; 3) the discharge will not result in water quality less than prescribed in the Basin Plan; and 4) the Dischargers must use the best practicable treatment or control to avoid pollution or nuisance and maintain the highest water quality consistent with maximum benefit to the people of the State. The Water Board finds that, for this project, a condition of long-term localized degradation within a radius of 1800 feet from each of the injection/extraction wells is reasonable, acceptable and appropriate because the benefit of ground water recharge with SWP outweighs the economically viable alternatives. One alternative would be to extract groundwater for cooling without replacement. The other would be to not produce electrical power when SWP water is not available. At the time the program was initiated, alternative cooling methods were not economically viable. The Board finds that the waiver for the injection/extraction wells is in the best interest of the people of California for the following reasons:
- a. Without use of groundwater to cool the power plant, production of electricity would not be viable when SWP water is not available. The State, with a growing population, has an interest in maintaining and even increasing power output statewide. This plant provides power to the area, jobs to the local economy, and reuses a former military base. Loss of power production when

SWP water is not available could create a hardship to the people of California who depend on the power supply.

- b. Extraction of groundwater for cooling when source water is not available without replacement at a different date would result in acceleration of groundwater overdraft.
  - c. Given current technology, the cost of removing the TDS from source water prior to injection exceeds the benefit of higher water quality. Local application of reverse osmosis to a smaller volume of water used for consumption, such as in-home reverse osmosis units, would be more cost effective.
  - d. The injected source water is required to meet all California Code of Regulations, Title 22 drinking water standards and Basin Plan objectives. It can serve the same beneficial uses that the existing groundwater provides.
  - e. The area of groundwater that will be degraded is estimated to be limited to approximately 1800 feet from the points of injection (HDPP well field). The project proponents, who are also purveyors of municipal water, are monitoring source water quality and controlling the injection rate so that groundwater beneficial uses of municipal, agricultural, and industrial water supply will not be impacted by the Project.
  - f. The degree of degradation/year is expected diminish over the life of the project. Salt removed from the ground water by extraction and salt added to groundwater by injection will approach an equilibrium after the initial 13,000 AF of water is stored and when the volume of injected water will be balanced by extraction of groundwater on an as-needed basis.
  - g. The injected source water contains lower concentrations of trace metals, including arsenic and chromium, than the background water quality of the receiving water. As a result, in regards to trace metals, the project could result in a localized improvement of water quality.
  - h. Based on the factors listed above, the Water Board finds that: (1) changes in water quality as a result of this project are consistent with maximum benefit to people of the State; (2) beneficial uses will not be affected; (3) changes in water quality will be consistent with Basin Plan objectives; and (4) the best practicable treatment of control of the discharge is used such that no pollution or nuisance results. Therefore, the Water Board further finds the project is consistent with State Water Board Resolution No. 68-16 and the Basin Plan.
9. This Conditional Waiver governs operation of the existing Facility. There have been no proposed changes to the project that could pose adverse environmental impacts since the Regional Board's adoption of Resolution No R6V-2007-0012 Second Addendum to the Functional Equivalent of an Environmental Impact Report Certified by the California Energy Commission for Victor Valley Water District and High Desert Power Project Limited Liability Corporation, High Desert Power Plant –

Ground Water Banking Operation was adopted by the Water Board on March 14, 2007. Approval of this waiver of WDRs consists only of the allowing the continued operation of an existing facility and involves no expansion of use, and is therefore exempt from the provisions of the California Environmental Quality Act, Public Resources Code, Section 21000 et seq., in accordance with the California Code of Regulations, title 27, section 15301.

**THEREFORE:**

Pursuant to the California Water Code, Section 13269 (a) Waste Discharge Requirements are Conditionally Waived. Further, the Water Board finds that the degradation of groundwater within 1800 feet of the injection wells is consistent with the maximum benefit to the people of the State and will meet the objectives of the Basin Plan and will not unreasonably affect present and anticipated beneficial uses of the groundwater provided the following conditions are met.

1. This Conditional Waiver expires on **March 14, 2017 (five years after adoption)** unless terminated by the Water Board before then. The Water Board may renew this Conditional Waiver if appropriate at that time or earlier.
2. The following conditions apply.
  - a. The discharge of injection water shall not contain concentrations in excess of the following limits. Annual Means are to be determined based on a calendar one-year average of samples collected. See footnotes for explanations for how exceedances of continuously monitored constituents will be determined.

<u>Constituent</u>	<u>Waiver Limit Annual Mean</u>	<u>Waiver Limit Maximum</u>
Total Dissolved Solids (mg/L)	322 <sup>1,2</sup>	400 <sup>3,4</sup>
Combined Chlorine Residual (mg/L)		0.005 <sup>5</sup>
Turbidity (NTU)		1.0 <sup>5</sup>
Trihalomethanes (ug/L)	0.5 <sup>6</sup>	5.0

- b. Concentrated brine and sludge residue from the Waste Treatment Plant and power plant cooling shall be adequately characterized pursuant to Title 27 requirements to determine if it is "hazardous" or "designated," and disposed into an approved waste management unit that meets regulatory requirements.
    - c. The injection of source water shall not cause a violation of any applicable water quality standards for receiving water adopted by the Regional Board or the State Water Resource Control Board SWRCB.
    - d. Installation and destruction of injection, extraction wells or monitoring wells shall be in accordance with California Well Standards criteria (DWR Bulletins

74-90 and 74-81). Well Completion Reports shall be submitted to the DWR as required in the California Water Code, Section 13751.

- e. The Facility shall be equipped with sampling points and monitoring devices at appropriate locations in the water treatment plant and at individual injection/extraction wells so that water quality samples and water level measurements can be collected.
- f. A revised ROWD (including revised groundwater flow fate and transport model) must be submitted if the injected or extracted water amounts vary more than 10% in any one year from what was described in the May 2011 Report of Waste Discharge or more than 15% over a running five-year period.
- g. Prior to injection of treated source water, the natural background water quality shall be determined and reported for each constituent listed in the attached monitoring program (General minerals, Total Metals, General Physical Parameters, Other Constituents) and organic constituents using US EPA methods 8015 and 8260 for water samples collected at each well.
- h. The Dischargers shall monitor treated pre-injection water (source water), receiving groundwater and extracted groundwater to verify the conditions of this waiver are being met. The attached Monitoring Program must be implemented unless revised by the Executive Officer. An Updated Sampling and Analysis Plan (SAP) that includes sampling and analysis of water from all publically owned wells within two miles of the injection points shall be submitted by **May 15, 2012**. The updated SAP shall describe sample collection method and procedures, sample frequencies and methods of analysis and data quality control. The SAP shall be updated and a revised SAP shall be submitted if changes are made to the project, or facilities associated with the project.
- i. By **March 1, 2013, and annually thereafter**, a report shall be submitted to the Regional Board describing how the Dischargers verified that they have complied with this Conditional Waiver. The following data sets are to be collected, compiled and included in the report: including water quality data, elevation monitoring data, quality assurance and quality control data for all data sets, injection volume, and extraction volume
- j. By **December 14, 2016** (five years after adoption minus 120 days), a report shall be submitted to the Water Board evaluating how the Dischargers have complied with this Conditional Waiver. The report shall include a time series comparison of predicted water elevation and quality changes over time versus observed changes. This report shall be signed by a California registered Civil Engineer or Geologist and shall reference this Conditional Waiver.

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of a Waiver adopted by the California Regional Water Quality Control Board, Lahontan Region, on March 14, 2012.

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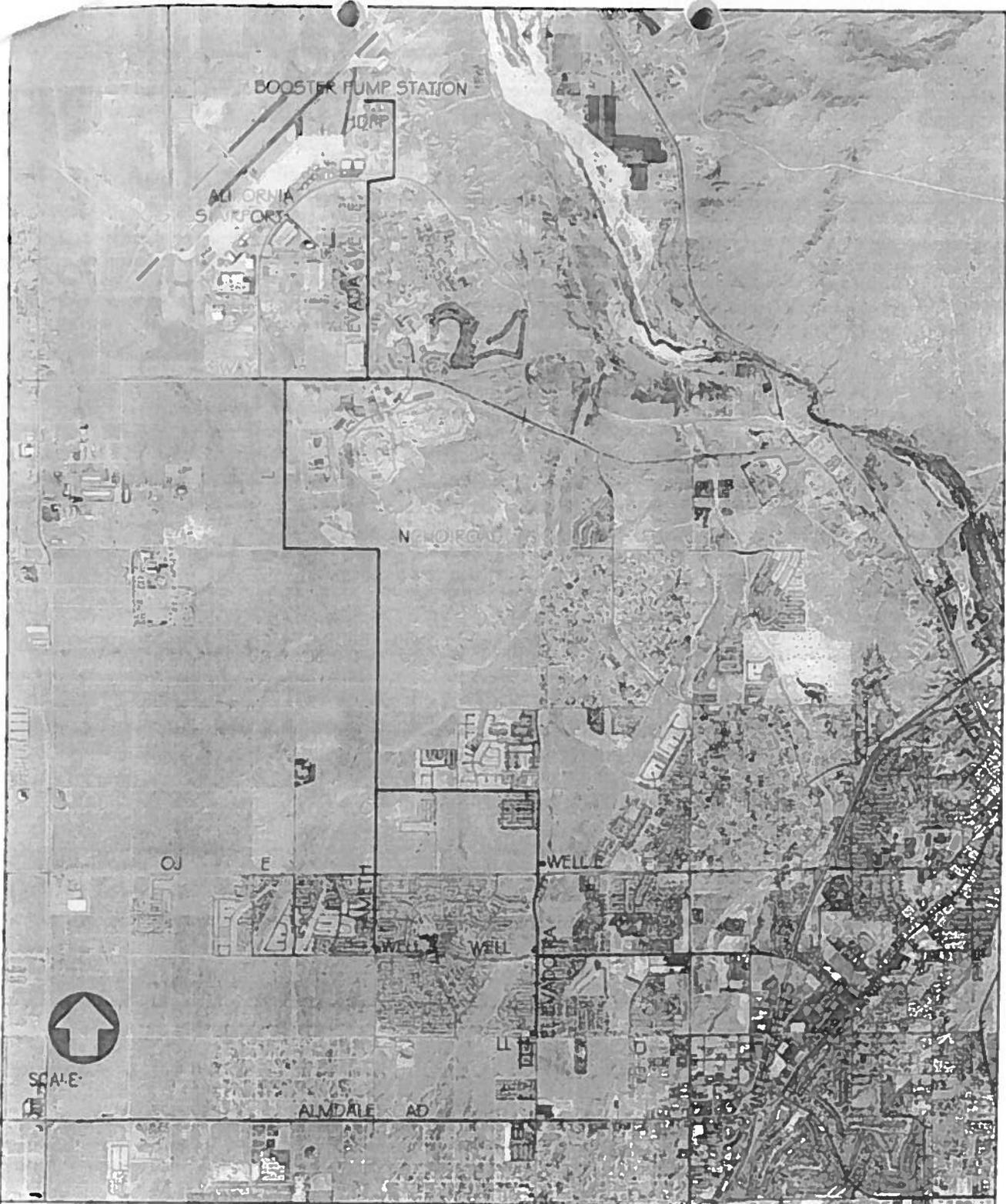
HAROLD J. SINGER  
EXECUTIVE OFFICER

Attachments:    A. Site Map  
                  B. Monitoring and Reporting Program

- <sup>1</sup> The mean TDS limit represents the estimated injection water quality (Table 8, Report of Waste Discharge).
- <sup>2</sup> To determine compliance with the annual mean TDS limit, hourly electrical conductivity readings shall be recorded and converted to an equivalent TDS value. The average of all hourly TDS values over the reporting period shall be determined and reported.
- <sup>3</sup> The maximum TDS limit represents 80% of the recommended secondary drinking water standard of 500 mg/L.
- <sup>4</sup> To determine compliance with the maximum TDS limit, hourly electrical conductivity readings shall be recorded and converted to an equivalent TDS value. More than one exceedance greater than the maximum limit is considered to be a violation. This calculation shall be determined and reported.
- <sup>5</sup> To determine compliance with the maximum combined chlorine residual limit, turbidity limit, and trihalomethane limit, the maximum values based on the frequency specified in the attached Monitoring Program shall be determined and reported. Any exceedance of the maximum limit will be considered a violation.
- <sup>6</sup> To determine compliance with the mean trihalomethane limit, the average of the last two semi-annual periods shall be determined and reported based on the sampling frequency described in the attached Monitoring Program.

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# ATTACHMENT A



PREPARED BY:

**CITY OF VICTORVILLE**  
ENGINEERING DEPARTMENT  
14343 Civic Drive, Victorville, Ca. 92392 (619) 955-5158

Figure 1  
Aquifer Banking System Facilities

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION**

**MONITORING AND REPORTING PROGRAM NO. R6V-2012-(TENTATIVE)**

**WDID NO. 6B360105004**

**FOR**

**HIGH DESERT POWER PLANT & VICTORVILLE WATER DISTRICT  
GROUND WATER BANKING PROJECT**

\_\_\_\_\_ San Bernardino County \_\_\_\_\_

1. The Discharger shall implement the following monitoring program upon adoption of this waiver.
  - A. The Discharger must monitor for the following parameters at each injection well at the frequency listed in the following tables.

**Injection Water Monitoring by Continuous Meters**

<b>PARAMETERS</b>	<b>UNITS</b>	<b>FREQUENCY<sup>1</sup></b>
Specific Conductance	µmhos/cm	Continuous
Turbidity	NTU	Continuous
Chlorine Residual	mg/L	Continuous
TDS	Mg/L	Calculated from Continuous monitoring data
Flow to Injection Wells	Gallons/minute	Continuous
Cumulative flow	Gallons/minute	Continuous
Average Flow Rate	Gallons/minute	Continuous
Total Monthly Flow	Gallons/month	Calculated from Continuous monitoring data
Total Annual Flow	Gallons/year	Calculated from Continuous monitoring data

<sup>1</sup> Quarterly monitoring shall reflect samples collected in each calendar quarter.  
Semi-annual monitoring shall reflect samples collected in each half of the calendar year.  
Annual monitoring shall reflect samples collected during each calendar year.

**Injection Water Monitoring by Grab Samples**

Parameter	Units	Frequency
<b>General Physical and Aggregate Parameters</b>		
Alkalinity (as CaCO <sub>3</sub> )	mg/L	Semi-annually
Apparent Color	Units	Semi-annually
Bicarbonate (HCO <sub>3</sub> )	mg/L	Semi-annually
Hardness (as CaCO <sub>3</sub> )	mg/L	Semi-annually
Odor	Units	Semi-annually
pH	Units	Semi-annually
Specific Conductance	µmhos/cm	Semi-annually
Temperature	Deg. C	Semi-annually
Total Dissolved Solids (TDS)	mg/L	Semi-annually
Turbidity	NTU	Daily
<b>Inorganic and Non-metallic Constituents</b>		
Chloride (Cl)	mg/L	Semi-annually
Combined Chlorine Residual	mg/L	Daily
Fluoride (F)	mg/L	Semi-annually
Nitrate (as NO <sub>3</sub> )	mg/L	Semi-annually
Nitrite (as N)	mg/L	Semi-annually
Sulfate (SO <sub>4</sub> )	mg/L	Semi-annually
<b>Metals</b>		
Calcium (Ca)	mg/L	Semi-annually
Hexavalent Chromium (Cr VI)	mg/L	Semi-annually
Iron (Fe)	mg/L	Semi-annually
Magnesium (Mg)	mg/L	Semi-annually
Manganese (Mn)	mg/L	Semi-annually
Potassium (K)	mg/L	Semi-annually
Sodium (Na)	mg/L	Semi-annually
<b>Total Metals</b>		
Aluminum (Al)	mg/L	Semi-annually
Antimony (Sb)	mg/L	Semi-annually
Arsenic (As)	mg/L	Semi-annually
Barium (Ba)	mg/L	Semi-annually
Beryllium (Be)	mg/L	Semi-annually

Parameter	Units	Frequency
Boron (B)	mg/L	Semi-annually
Cadmium (Cd)	mg/L	Semi-annually
Chromium (Cr)	mg/L	Semi-annually
Copper (Cu)	mg/L	Semi-annually
Lead (Pb)	mg/L	Semi-annually
Mercury (Hg)	mg/L	Semi-annually
Nickel (Ni)	mg/L	Semi-annually
Selenium (Se)	mg/L	Semi-annually
Thallium (Th)	mg/L	Semi-annually
Zinc (Zn)	mg/L	Semi-annually
<b>Other Constituents</b>		
Coliform	mpn/100 ml	Monthly
Total Organic Carbon	mg/L	Semi-annually
Total Trihalomethane Compounds	mg/L	Monthly
Trihalomethane Formation Potential	µg/L	Semi-annually

- B. The following must be monitored for each extraction well and municipally owned well within the receiving waters monitoring area covered by this waiver:

**Extraction Water Monitoring by Continuous Meters**

Parameter	Units	Frequency
Average Flow Rate	Gallons/minute	Continuous
Flow from Extraction Wells	Gallons/minute	Continuous
Total Annual Flow	Gallons/Year	Continuous
Total Monthly Flow	Gallons/month	Calculated from Continuous monitoring data

**Extraction Water and Local Ground Water Monitoring by Grab Samples**

Parameter	Units	Frequency
Groundwater Elevation	Feet above msl	Quarterly
<b>General Physical and Aggregate Parameters</b>		
Alkalinity (as CaCO <sub>3</sub> )	mg/L	Semi-annually
Apparent Color	Units	Semi-annually
Bicarbonate (HCO <sub>3</sub> )	mg/L	Semi-annually

Parameter	Units	Frequency
Hardness (as CaCO <sub>3</sub> )	mg/L	Semi-annually
Odor	Units	Semi-annually
pH	Units	Semi-annually
Specific Conductance	□mhos/cm	Semi-annually
Temperature	Deg. C	Semi-annually
Total Dissolved Solids (TDS)	mg/L	Semi-annually
Turbidity	NTU	Semi-annually
<b>Inorganic and Non-metallic Constituents</b>		
Chloride (Cl)	mg/L	Semi-annually
Combined Chlorine Residual	mg/L	Semi-annually
Fluoride (F)	mg/L	Semi-annually
Nitrate (as NO <sub>3</sub> )	mg/L	Semi-annually
Nitrite (as N)	mg/L	Semi-annually
Sulfate (SO <sub>4</sub> )	mg/L	Semi-annually
<b>Metals</b>		
Calcium (Ca)	mg/L	Semi-annually
Hexavalent Chromium (Cr VI)	mg/L	Semi-annually
Iron (Fe)	mg/L	Semi-annually
Magnesium (Mg)	mg/L	Semi-annually
Manganese (Mn)	mg/L	Semi-annually
Potassium (K)	mg/L	Semi-annually
Sodium (Na)	mg/L	Semi-annually
<b>Total Metals</b>		
Aluminum (Al)	mg/L	Semi-annually
Antimony (Sb)	mg/L	Semi-annually
Arsenic (As)	mg/L	Semi-annually
Barium (Ba)	mg/L	Semi-annually
Beryllium (Be)	mg/L	Semi-annually
Boron (B)	mg/L	Semi-annually
Cadmium (Cd)	mg/L	Semi-annually
Chromium (Cr)	mg/L	Semi-annually
Copper (Cu)	mg/L	Semi-annually
Lead (Pb)	mg/L	Semi-annually

Parameter	Units	Frequency
Mercury (Hg)	mg/L	Semi-annually
Nickel (Ni)	mg/L	Semi-annually
Selenium (Se)	mg/L	Semi-annually
Thallium (Th)	mg/L	Semi-annually
Zinc (Zn)	mg/L	Semi-annually
<b>Other Constituents</b>		
Coliform	mpn/100 ml	Semi-annually
Total Organic Carbon	mg/L	Semi-annually
Total Trihalomethane Compounds	mg/L	Semi-annually
Trihalomethane Formation Potential	mg/L	Semi-annually

C. The following must be monitored for sludge generated by the Discharger.

**Sludge Monitoring**

Parameter/Type of Data	Units	Frequency
Quantity generated	Cubic yards	Quarterly
Quantity disposed offsite	Cubic yards	Quarterly
Classification (Haz, Design, Non Haz Solid)		Quarterly
Final disposition of waste (location & dates of disposal)		Quarterly

2. Record Keeping

The following documentation must be kept on site and be available at all times for inspection:

- A. The following records must be kept in a bound notebook:
  - a. QA/QC (Quality Assurance/Quality Control) data;
  - b. Monitoring date, location, and time;
  - c. Technician initials or name who records data, metadata, or QA/QC data;
  - d. Calibration data for instrumentation used for compliance with monitoring requirements; and
  - e. Sludge monitoring data.

- B. Documentation of training events for staff who conduct monitoring. Documentation will include:
  - a. Name of Trainer;
  - b. Name(s) of staff who are trained; and
  - c. List of topics covered by training.
  
- C. Records of readings taken from continuous meters shall be kept in a bound notebook with time, date, meter read, location, and initials or name of staff that makes the reading or a printout from the monitoring equipment must be kept on-site.

3. Scheduled Reports to be Filed with the Water Board

The following reports shall be submitted to the Water Board pursuant to Water Code Section 13267, as specified below.

- A. **By May 15, 2012**, submit required updated Sampling and Analysis Plan that includes all municipally owned wells within potential impact area that may not have been included in the previous monitoring plan.
- B. By **March 30, 2012** and by **March 1 of each year** thereafter, submit required annual reports.
- C. By **October 15, 2016** (five years after adoption minus 120 days), submit required report that evaluates how the Dischargers have complied with this Conditional Waiver. The report shall include a time series comparison of predicted water elevation and quality changes over time versus observed changes.
- D. These reports shall contain the following information in addition to what is required in the General Provisions for Monitoring and Reporting.
  - a. All data collected from the previous year with the following:

Parameter/Type of Data	Frequency
Compliance Calculations	Annually
Narrative compliance evaluation	Annually
Operation and maintenance performed	Annually
<b>Metadata for sample collection and analyses</b>	
Documentation of ELAP certification for analyses conducted both onsite and offsite labs/personnel; documentation of appropriate training of personnel who perform field measurement and/or read and maintain continuous meters.	Annually

Analysis date, time, location, method, technician name for each sample	With Each Data Set
Certification of data analysis by lab director or responsible party	With Each Data Set
Chain of custody sheets for off-site data analyses	With Each Data Set
Detection limit for each parameter	With Each Data Set
EPA analysis method number for each method	With Each Data Set
Lab contact name/telephone no./email	With Each Data Set
QA/QC data for each parameter	With Each Data Set
Reporting limit for each parameter	With Each Data Set
Sample collection time, location, date, and method for each sample	With Each Data Set
Violations noted by color change, formatting change or symbol in data tables.	With Each Data Set
<b>General Report Information</b>	
Electronic form of tab separated text either on a CD or uploaded directly to CIWQS.	Each Data Set
Page number	Each Page of Each Report
Board Order Number for Waiver	Each Report
Certification of report by responsible party	Each Report
Dates of reporting period included within the report	Each Report
Name, title and contact information of party(ies) who prepared the report	Each Report
Name, title, and contact information for responsible party who certifies the report	Each Report
WDID number for waiver	Each Report

- b. A map or aerial photograph showing the locations of monitoring wells in the receiving water program;
  - c. Information on operation and maintenance of the Facility which may affect water quality;
  - d. Any periods of non-operation; and
  - e. The compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the WDRs.
- E. In reporting the monitoring data, the Discharger shall arrange the data in tabular and/or graphical form so that the date, the constituents, and the concentrations are readily discernible. The data must be summarized in such a manner to illustrate clearly the compliance with WDRs.

- F. This Monitoring and Reporting Program may be modified by the Executive Officer.

Ordered by: \_\_\_\_\_  
HAROLD J. SINGER  
EXECUTIVE OFFICER

Dated: \_\_\_\_\_

Attachment: 1. General Provisions for Monitoring and Reporting

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TENTATIVE

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION

**GENERAL PROVISIONS**  
FOR MONITORING AND REPORTING

1. **SAMPLING AND ANALYSIS**

- a. All analyses shall be performed in accordance with the current edition(s) of the following documents:
  - i. Standard Methods for the Examination of Water and Wastewater
  - ii. Methods for Chemical Analysis of Water and Wastes, EPA
- b. All analyses shall be performed in a laboratory certified to perform such analyses by the California State Department of Health Services or a laboratory approved by the Regional Board Executive Officer. Specific methods of analysis must be identified on each laboratory report.
- c. Any modifications to the above methods to eliminate known interferences shall be reported with the sample results. The methods used shall also be reported. If methods other than EPA-approved methods or Standard Methods are used, the exact methodology must be submitted for review and must be approved by the Regional Board prior to use.
- d. The Discharger shall establish chain-of-custody procedures to insure that specific individuals are responsible for sample integrity from commencement of sample collection through delivery to an approved laboratory. Sample collection, storage, and analysis shall be conducted in accordance with an approved Sampling and Analysis Plan (SAP). The most recent version of the approved SAP shall be kept at the facility.
- e. The Discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall insure that both activities will be conducted. The calibration of any wastewater flow measuring device shall be recorded and maintained in the permanent log book described in 2.b, below.
- f. A grab sample is defined as an individual sample collected in fewer than 15 minutes.
- g. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period at equal intervals. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling. The sampling period shall equal the discharge period, or 24 hours, whichever period is shorter.

## 2. OPERATIONAL REQUIREMENTS

### a. Sample Results

Pursuant to California Water Code Section 13267(b), the Discharger shall maintain all sampling and analytical results including: strip charts; date, exact place, and time of sampling; date analyses were performed; sample collector's name; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three 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.

### b. Operational Log

Pursuant to California Water Code Section 13267(b), an operation and maintenance log shall be maintained at the facility. All monitoring and reporting data shall be recorded in a permanent log book.

## 3. REPORTING

- a. For every item where the requirements are not met, the Discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time, and shall submit a timetable for correction.
- b. Pursuant to California Water Code Section 13267(b), all sampling and analytical results shall be made available to the Regional Board upon request. Results shall be retained for a minimum of three 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.
- c. The Discharger shall provide a brief summary of any operational problems and maintenance activities to the Board with each monitoring report. Any modifications or additions to, or any major maintenance conducted on, or any major problems occurring to the wastewater conveyance system, treatment facilities, or disposal facilities shall be included in this summary.
- d. Monitoring reports shall be signed by:
  - i. In the case of a corporation, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;
  - ii. In the case of a partnership, by a general partner;
  - iii. In the case of a sole proprietorship, by the proprietor; or

- iv. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
- e. Monitoring reports are to include the following:
  - i. Name and telephone number of individual who can answer questions about the report.
  - ii. The Monitoring and Reporting Program Number.
  - iii. WDID Number.
- f. Modifications

This Monitoring and Reporting Program may be modified at the discretion of the Regional Board Executive Officer.

#### 4. NONCOMPLIANCE

Under Section 13268 of the Water Code, any person failing or refusing to furnish technical or monitoring reports, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in an amount of up to one thousand dollars (\$1,000) for each day of violation under Section 13268 of the Water Code.

x:PROVISIONS WDRS

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