DOCKETED	
Docket Number:	79-AFC-04C
Project Title:	Compliance - Application for Certification of DWR Bottlerock Geothermal Project
TN #:	260744
Document Title:	2023 Annual Compliance Report (Bottle Rock Power) _Part2
Description:	2023 Annual Compliance Report (Bottle Rock Power)
Filer:	John C Casteel
Organization:	Mayacma Geothermal LLC
Submitter Role:	Applicant
Submission Date:	12/19/2024 11:37:54 AM
Docketed Date:	12/19/2024



AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District 2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421 Permit # A/C 2005-47

Douglas G. Gearhart, APCO

Type of Issuance:

Renewal

Issuance Date: 10/31/2023 Valid through: 10/31/2024

Category: IV

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty

Owner: Bottle Rock Power, LLC Mailing c/o AltaRock Energy, Inc. Address: 4010 Stone Way N, Suite 400

Seattle, WA 98103

Location:

Facility: West Coleman Padsite

West Coleman 3-6, located on Bottle Rock West Coleman Padsite (1155m So. & 134.9m W of the NE Corner Section 6, T11N, R8W, MDB&M, Lake County, N 397,334 E 1,797,546)

Name and Equipment Description: W. Coleman 3-6 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel-powered air compressors PERP Registered), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H2O2; and particulate control equipment consisting of misting down hole. constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H2S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H2S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H2S, BRP agrees to reduce the H2S emission limit to two (2) pounds of H2S using abatement plan at the request of the Air Pollution Control Officer (APC) Certain exceptions to the H2S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.

B. If excessively high H2S levels are encountered during drilling, BRP will either: 1) Place into operation additional H2S abatement capacity, or 2) Cease operation and close

in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H2S means abated emissions greater than five (5)

pounds of H2S per hour or abated emission levels in excess of 500 ppmv.

C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the

cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.

D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos-containing rock. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.

E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reduce the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water.

Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

A. This permit has been issued as a modification to include cleanout, forking or deepening of the well as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.

B. The submitted BRP (Tecton) H2S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.

C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.

D. If a vapor-dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall, with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.

E. BRP shall utilize the particulate scrubbing system as substantially described in the permitting review and includes the following configuration: 1) A smooth expansion blooie line with low-pressure constricting and non-constricting interchangeable venturis with water injection for venturi contact/scrubbing. The non-constricting venturi

(Conditions 2 through 6 are continued on the back of this card)

THIS PERMIT BECOMES VOID UPON CHANGE OF OWNERSHIP OR LOCATION

This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Regulations of the Lake County Air Quality Management District. This permit cannot be considered permission to violate existing laws, ordinances, regulations, or statutes of other government agencies. The provisions of this Permit are severable. If any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby. located in the smallest diameter portion of the blooie line (non-constricting venturi 12"-15") for use when flow of at least 20,000 lbs/hr air/steam, and an interchangeable converging venturi scrubber when drilling in less than 20,000 lbs/hr of steam and/or pressure drop does not exceed 4 PSI across the converging to diverging section. The constricting venturi may be removed for problematic operations when concurred with by the LCAQMD, such as well plug drill out or flow testing. Venturis shall utilize a multi-port 60 GPM or greater adjustable low-pressure water injection system as described in the permit review. 2) An approximate eight foot section of rectangular ducting that is smoothed internally and matched to the cyclone inlet size to allow laminar flow into the cyclone inlet. 3) A properly sized cyclone separator with a tangential inlet flush with the top of the body and a flow trajectory that avoids striking the outlet barrel. The cyclone shall have a smoothed internal surface with all protrusions and pockets removed. An outlet barrel approximately 1.25 (preferred) to 1.45 times the inlet height with adequate cone clearance; and a 18"-21" open drop arrangement at the terminus of a full 'cone', or alternatively a drop hopper that separates liquid and gas then dropping into a water jet venturi or other recirculating pump system for cuttings removal. 4) Acceptable measurement devices to ensure flows and pressure are properly monitored. The APCO may modify the cyclone drop out requirements based upon presentation of new information and selection of alternatives proven to be effective.

F. If during drilling the subject well, significant liquid, gas or particulate carry through occurs from the cyclone separator stack as a result of unusual circumstances or equipment failure, including but not limited to unexpected large steam or gas entries or water flashing down hole, BRP shall notify the LCAQMD immediately and in no case more than one (1) hour, per Rule Section 510. Such occurrences shall be logged in the bound abatement logbook and the emission and or resulting evidence documented, to the

extent possible, by photographs or video recording. BRP shall provide information on such events and forward such to the LCAQMD.

G. BRP shall comply with the requirements of the Air Toxics "Hot Spots" Information and Assessment Act (AB2588) as specified in Sections 44300 - 44394 of the California Health and Safety Code.

Condition 3: Notification

A. BRP shall notify the LCAOMD pursuant to Rule 510, upon breakdown and/or loss of emissions control from this drilling project.

B. In the event that emissions exceed the allowable limits contained in Condition 1, BRP shall notify the LCAQMD within one (1) hour and shall report: a) The cause of the exceed; b) The actions taken or proposed to minimize emissions and achieve compliance; and c) the estimate of emissions and duration of noncompliance.

C. BRP shall notify the LCAQMD at least twenty-four (24) hours prior to initiating the scheduled venting of any well or group of wells in the LCAQMD. This notice shall also apply to scheduled installation of a liner while the well continues to produce steam. Unscheduled venting, necessary to prevent well damage, shall be reported as a breakdown pursuant to Rule 510. A written report shall be submitted to the LCAQMD, within three (3) days (72 hours) documenting: a) The need for venting; b) The duration of venting; c) Estimated steam flow and emissions; d) Cyclone or other equipment utilized; e) Abatement systems utilized; and f) The likelihood or need for future occurrences.

D. BRP shall promptly notify the LCAQMD in writing should any incident of occupational concern take place where toxic air emissions occur and are allowed to disperse into

the ambient air as mitigation.

E. BRP shall provide a written report of any changes of the estimated amount of serpentine and crystalline silica material expected to be drilled during the air phase as early as practical. Upon completion of drilling, BRP shall provide a final report within sixty (60) days detailing any significant quantity of serpentine (or crystalline silica) material actually encountered during drilling.

Condition 4: Modification/Additions

A. BRP shall apply for and receive an Authority to Construct (A/C) modification permit prior to the addition of different or new equipment not identified in the application, this permit or covered in the permitting review. The LCAQMD Hearing Board, at a properly noticed public hearing, may grant a variance from these conditions.

Condition 5: Monitoring and Testing

A. BRP shall perform and forward to the LCAQMD the following characterization of hot water, steam particulates and/or gases emanating from the subject well within sixty (60) days after the completion of drilling. If the well is to be abandoned, no analyses will be necessary. a) STEAM CONDENSATE/TOTAL STEAM - Ammonium, Arsenic, Asbestos, Benzene, Bicarbonate and Carbonate, Boron, Bromides, Cadmium, Chlorides, Chromium, Fluorides, Hydrogen Sulfide, Lead, Mercury, Nickel, Nitrates, pH, Silica, Selenium, Sulfates, Zinc, Total Dissolved Solids, Total Suspended Solids, Percent Non-Condensables, Steam Flow and Temperature. b) GAS PHASE - Ammonia, Benzene, Carbon Dioxide, Hydrogen Sulfide, Methane, Non-Methane Hydrocarbons, Mercury Vapor, and Radon 222 and Daughters. c) STEAM PARTICULATE*: Arsenic, Boron, Cadmium, Chromium, Lead, Nickel, Total Sulfur (mass all in μg/Kg of steam); Asbestos (fibers/Kg of steam); NESHAP and AB 2588 air pollutants as requested. Tests can be performed utilizing the bleed of the subject well. A test protocol shall be submitted to the LCAQMD at least three (3) weeks before such sample collection and analytical testing is scheduled to occur and shall be approved by the APCO prior to actual source testing. If the well is promptly closed in to a no-vent state, these tests may be delayed upon request of BRP by concurrence of the APCO until such time as the well is produced to the steamline, or placed on vent for 30 or more days, or upon written request of the APCO. *Testing of this type shall consist at a minimum of an XRF analysis of suspended and/or dissolved solids.

B. In the event source testing is deemed necessary by the APCO, BRP shall be available within ten days after written notice, to open the well for 4 to 8 hour duration.

C. If analyses performed as part of Condition 5-A suggests the need for further study, including air dispersion analysis, BRP will assist, perform, or finance such studies if deemed reasonable and necessary by the APCO.

D. BRP shall install and utilize an in-line continuous H2S monitor or other appropriate equipment to ascertain the levels of this pollutant as a function of depth of drilling.

Logging data and test results shall be immediately available to LCAQMD staff upon request at the drill site.

E. Upon request of the APCO, BRP shall perform any additional analytical work necessary to characterize potential emissions from this well prior to applying for a Permit to Operate.

F. If a hot water resource is discovered during the drilling of this well, BRP shall, prior to testing to determine the extent of the resource, submit a test plan to the LCAQMD detailing expected air pollutants and mitigating measures. The LCAQMD will either approve the submitted plan or recommend additional mitigating measures necessary, in writing, prior to actual testing. Total emissions from testing shall be limited to the amount specified in Condition 1.

G. The treatment and use of mud waters for reuse in air drilling is acceptable provided: a) Oils or other hydrocarbons contaminating any reclaimed mud waters are separated prior to use in bloole line treatment during air drilling; and b) The water is analyzed for and shown free of asbestos, and the analysis results are provided to the APCO within

three (3) working days of finishing mud water treatment(s).

H. If the well is placed on extended standby bleed, BRP shall test the well to determine the H2S emissions within three (3) days, and retest the well no sooner than one (1) week, and no later than two (2) weeks after the first test, and thereafter upon a 10% or greater change of flow rate. If emissions are within 90% of the allowable H2S limit, a program of additional testing may be required by the APCO. A written monthly report shall be forwarded to the LCAQMD updating the well status and the estimated emissions, upon request of the APCO.

I. BRP shall participate in or proportionately fund an air monitoring program to assist the LCAQMD in a continued determination of compliance. In the event of considerable public complaints, the LCAQMD may require additional monitoring, testing and studies to characterize said condition and possible mitigation (Section 430 and 670). Participation in a cooperative monitoring effort, such as Geysers Air Monitoring Program, approved by the APCO shall fulfill this requirement.

Condition 6: Identification and Access

A. This permit shall be posted at the project site during the time the drilling equipment is on site, and be available for BRP and LCAQMD staff upon request. If locks or unmanned gates are used to secure the project area, the LCAQMD or its representative, will be given free access of entry for the purposes of monitoring or inspecting.

B. BRP shall provide the LCAQMD, ARB, and Environmental Protection Agency staff entry and safe access to the project site/equipment for the purpose of inspection, source testing, and or air monitoring activities.

This permit is based on the equipment and process submitted by BRP and considered in the A/C assessment. The permit issuance is based on the assumption that the operation of this source, as conditioned, will not result in a violation of LCAQMD Rules and Regulations nor contribute to an exceed of any state or federal Ambient Air Quality Standard.



AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District 2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Type of Issuance:

Renewal

Issuance Date: 10/31/2023 Valid through: 10/31/2024

Category: IV

A/C 2005-45

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty

Owner: Bottle Rock Power, LLC Mailing c/o AltaRock Energy, Inc. Address: 4010 Stone Way N, Suite 400

Seattle, WA 98103

Facility: West Coleman Padsite

Location: West Coleman 4-6, located on Bottle Rock West Coleman Padsite (1155m So. & 134.9m W of the

NE Corner Section 6, T11N, R8W, MDB&M, Lake County, N 397,334 E 1,797,546)

Name and Equipment Description: W. Coleman 4-6 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel-powered air compressors PERP Registered), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H2O2; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

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with acceptable meteorological conditions verified by the APCO to ensure good dispersion.

B. If excessively high H2S levels are encountered during drilling, BRP will either: 1) Place into operation additional H2S abatement capacity, or 2) Cease operation and close in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H2S means abated emissions greater than five (5)

pounds of H2S per hour or abated emission levels in excess of 500 ppmv.

C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the

cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.

D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos-containing rock. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.

E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reduce the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water.

Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

A. This permit has been issued as a modification to include cleanout, forking or deepening of the well as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.

B. The submitted BRP (Tecton) H2S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.

C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.

D. If a vapor-dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall, with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.

E. BRP shall utilize the particulate scrubbing system as substantially described in the permitting review and includes the following configuration: 1) A smooth expansion

blooie line with low-pressure constricting and non-constricting interchangeable venturis with water injection for venturi contact/scrubbing. The non-constricting venturi

(Conditions 2 through 6 are continued on the back of this card)

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located in the smallest diameter portion of the blooie line (non-constricting venturi 12"-15") for use when flow of at least 20,000 lbs/hr air/steam, and an interchangeable converging venturi scrubber when drilling in less than 20,000 lbs/hr of steam and/or pressure drop does not exceed 4 PSI across the converging to diverging section. The constricting venturi may be removed for problematic operations when concurred with by the LCAQMD, such as well plug drill out or flow testing. Venturis shall utilize a multiport 60 GPM or greater adjustable low-pressure water injection system as described in the permit review. 2) An approximate eight foot section of rectangular ducting that is smoothed internally and matched to the cyclone inlet size to allow laminar flow into the cyclone inlet. 3) A properly sized cyclone separator with a tangential inlet flush with the top of the body and a flow trajectory that avoids striking the outlet barrel. The cyclone shall have a smoothed internal surface with all protrusions and pockets removed. An outlet barrel approximately 1.25 (preferred) to 1.45 times the inlet height with adequate cone clearance; and a 18"-21" open drop arrangement at the terminus of a full 'cone', or alternatively a drop hopper that separates liquid and gas then dropping into a water jet venturi or other recirculating pump system for cuttings removal. 4) Acceptable measurement devices to ensure flows and pressure are properly monitored. The APCO may modify the cyclone drop out requirements based upon presentation of new information and selection of alternatives proven to be effective.

F. If during drilling the subject well, significant liquid, gas or particulate carry through occurs from the cyclone separator stack as a result of unusual circumstances or equipment failure, including but not limited to unexpected large steam or gas entries or water flashing down hole, BRP shall notify the LCAQMD immediately and in no case more than one (1) hour, per Rule Section 510. Such occurrences shall be logged in the bound abatement logbook and the emission and or resulting evidence documented, to the extent receible by photographs or wide recording. BRP shall provide information or nearly such to the LCAQMD.

extent possible, by photographs or video recording. BRP shall provide information on such events and forward such to the LCAQMD.

G. BRP shall comply with the requirements of the Air Toxics "Hot Spots" Information and Assessment Act (AB2588) as specified in Sections 44300 - 44394 of the California Health and Safety Code.

Condition 3: Notification

A. BRP shall notify the LCAQMD pursuant to Rule 510, upon breakdown and/or loss of emissions control from this drilling project.

B. In the event that emissions exceed the allowable limits contained in Condition 1, BRP shall notify the LCAQMD within one (1) hour and shall report: a) The cause of the exceed; b) The actions taken or proposed to minimize emissions and achieve compliance; and c) the estimate of emissions and duration of noncompliance.

C. BRP shall notify the LCAQMD at least twenty-four (24) hours prior to initiating the scheduled venting of any well or group of wells in the LCAQMD. This notice shall also apply to scheduled installation of a liner while the well continues to produce steam. Unscheduled venting, necessary to prevent well damage, shall be reported as a breakdown pursuant to Rule 510. A written report shall be submitted to the LCAQMD, within three (3) days (72 hours) documenting: a) The need for venting; b) The duration of venting; c) Estimated steam flow and emissions; d) Cyclone or other equipment utilized; e) Abatement systems utilized; and f) The likelihood or need for future occurrences.

D. BRP shall promptly notify the LCAQMD in writing should any incident of occupational concern take place where toxic air emissions occur and are allowed to disperse into the ambient air as mitigation.

E. BRP shall provide a written report of any changes of the estimated amount of serpentine and crystalline silica material expected to be drilled during the air phase as early as practical. Upon completion of drilling, BRP shall provide a final report within sixty (60) days detailing any significant quantity of serpentine (or crystalline silica) material actually encountered during drilling.

Condition 4: Modification/Additions

A. BRP shall apply for and receive an Authority to Construct (A/C) modification permit prior to the addition of different or new equipment not identified in the application, this permit or covered in the permitting review. The LCAQMD Hearing Board, at a properly noticed public hearing, may grant a variance from these conditions.

Condition 5: Monitoring and Testing

A. BRP shall perform and forward to the LCAQMD the following characterization of hot water, steam particulates and/or gases emanating from the subject well within sixty (60) days after the completion of drilling. If the well is to be abandoned, no analyses will be necessary. a) STEAM CONDENSATE/TOTAL STEAM - Ammonium, Arsenic, Asbestos, Benzene, Bicarbonate and Carbonate, Boron, Bromides, Cadmium, Chlorides, Chromium, Fluorides, Hydrogen Sulfide, Lead, Mercury, Nickel, Nitrates, pH, Silica, Selenium, Sulfates, Zinc, Total Dissolved Solids, Total Suspended Solids, Percent Non-Condensables, Steam Flow and Temperature. b) GAS PHASE - Ammonia, Benzene, Carbon Dioxide, Hydrogen Sulfide, Methane, Non-Methane Hydrocarbons, Mercury Vapor, and Radon 222 and Daughters. c) STEAM PARTICULATE*: Arsenic, Boron, Cadmium, Chromium, Lead, Nickel, Total Sulfur (mass all in µg/Kg of steam); Asbestos (fibers/Kg of steam); NESHAP and AB 2588 air pollutants as requested. Tests can be performed utilizing the bleed of the subject well. A test protocol shall be submitted to the LCAQMD at least three (3) weeks before such sample collection and analytical testing is scheduled to occur and shall be approved by the APCO prior to actual source testing. If the well is promptly closed in to a no-vent state, these tests may be delayed upon request of BRP by concurrence of the APCO until such time as the well is produced to the steamline, or placed on vent for 30 or more days, or upon written request of the APCO. *Testing of this type shall consist at a minimum of an XRF analysis of suspended and/or dissolved solids.

B. In the event source testing is deemed necessary by the APCO, BRP shall be available within ten days after written notice, to open the well for 4 to 8 hour duration.

C. If analyses performed as part of Condition 5-A suggests the need for further study, including air dispersion analysis, BRP will assist, perform, or finance such studies if deemed reasonable and necessary by the APCO.

D. BRP shall install and utilize an in-line continuous H2S monitor or other appropriate equipment to ascertain the levels of this pollutant as a function of depth of drilling. Logging data and test results shall be immediately available to LCAQMD staff upon request at the drill site.

E. Upon request of the APCO, BRP shall perform any additional analytical work necessary to characterize potential emissions from this well prior to applying for a Permit to Operate.

F. If a hot water resource is discovered during the drilling of this well, BRP shall, prior to testing to determine the extent of the resource, submit a test plan to the LCAQMD detailing expected air pollutants and mitigating measures. The LCAQMD will either approve the submitted plan or recommend additional mitigating measures necessary, in writing, prior to actual testing. Total emissions from testing shall be limited to the amount specified in Condition 1.

G. The treatment and use of mud waters for reuse in air drilling is acceptable provided: a) Oils or other hydrocarbons contaminating any reclaimed mud waters are separated prior to use in blooic line treatment during air drilling; and b) The water is analyzed for and shown free of asbestos, and the analysis results are provided to the APCO within

three (3) working days of finishing mud water treatment(s).

H. If the well is placed on extended standby bleed, BRP shall test the well to determine the H2S emissions within three (3) days, and retest the well no sooner than one (1) week, and no later than two (2) weeks after the first test, and thereafter upon a 10% or greater change of flow rate. If emissions are within 90% of the allowable H2S limit, a program of additional testing may be required by the APCO. A written monthly report shall be forwarded to the LCAQMD updating the well status and the estimated emissions, upon request of the APCO.

I. BRP shall participate in or proportionately fund an air monitoring program to assist the LCAQMD in a continued determination of compliance. In the event of considerable public complaints, the LCAQMD may require additional monitoring, testing and studies to characterize said condition and possible mitigation (Section 430 and 670). Participation in a cooperative monitoring effort, such as Geysers Air Monitoring Program, approved by the APCO shall fulfill this requirement.

Condition 6: Identification and Access

A. This permit shall be posted at the project site during the time the drilling equipment is on site, and be available for BRP and LCAQMD staff upon request. If locks or unmanned gates are used to secure the project area, the LCAQMD or its representative, will be given free access of entry for the purposes of monitoring or inspecting.

B. BRP shall provide the LCAQMD, ARB, and Environmental Protection Agency staff entry and safe access to the project site/equipment for the purpose of inspection, source testing, and or air monitoring activities.

This permit is based on the equipment and process submitted by BRP and considered in the A/C assessment. The permit issuance is based on the assumption that the operation of this source, as conditioned, will not result in a violation of LCAQMD Rules and Regulations nor contribute to an exceed of any state or federal Ambient Air Quality Standard.



AUTHORITY TO CONSTRUCT

Lake County Air Quality Management District

2617 S. Main Street, Lakeport, CA 95453 (707) 263-7000, Fax (707) 263-0421

Type of Issuance:

Renewal

Issuance Date: 10/31/2023 Valid through: 10/31/2024

Category: IV

A/C 2005-48

Operations under this permit must be conducted in compliance with all specifications and data included with the application under which this permit was issued. Equipment must be properly maintained and kept in good condition at all times. Post this permit or a facsimile (with conditions) in a conspicuous location on or near the equipment.

Contact: Ms. Susan Petty

Owner: Bottle Rock Power, LLC Mailing c/o AltaRock Energy, Inc. Address: 4010 Stone Way N, Suite 400

Seattle, WA 98103

Facility: West Coleman Padsite

Location: West Coleman 5-6, located on Bottle Rock West

Coleman Padsite (1155m So. & 134.9m W of the NE Corner Section 6, T11N, R8W, MDB&M, Lake County, N 397,334 E 1,797,546)

Name and Equipment Description: W. Coleman 5-6 Re-Drill

Geothermal drilling rig and accessories (NCPA Rig #1), Four electrical generators (CAT D-398TA 750 HP diesel engines PERP Registered), three air compressors (Cummins QSK19-C700 700 HP turbocharged diesel-powered air compressors PERP Registered), one down hole misting pump; hydrogen sulfide abatement system utilizing high pressure injection of NaOH and H2O2; and particulate control equipment consisting of misting down hole, constricting and non constricting venturi contactors, low pressure water spray, expanding blooie line, properly sized, smoothed, tangential wet cyclone, properly designed drop or hopper, water treatment and management systems, necessary metering and measuring devices and associated equipment.

Permit Conditions

Condition 1: Emissions

A. Bottle Rock Power, LLC (BRP) shall limit hydrogen sulfide (H2S) emissions during drilling, clean out, and testing to no more than five (5) pounds of H2S per hour and no more than twenty-four (24) pounds per day during all other phases of this project. During verifiable breakdown and for any hot-liner runs, Rule 510 and procedures shall apply. In the event of atmospheric conditions (e.g., drainage, limited mixing, fumigation, downwash, etc.) that result in complaints and concern in receptor areas from high levels of H2S, BRP agrees to reduce the H2S emission limit to two (2) pounds of H2S using abatement plan at the request of the Air Pollution Control Officer (APCO). Certain exceptions to the H2S emission limitations may be allowed by the APCO, in writing, for resource testing if such tests are 12 hours or less in duration and coincide with acceptable meteorological conditions verified by the APCO to ensure good dispersion.

B. If excessively high H2S levels are encountered during drilling, BRP will either: 1) Place into operation additional H2S abatement capacity, or 2) Cease operation and close

in the well according to appropriate standards of operation. For the purposes of this permit, excessively high levels of H2S means abated emissions greater than five (5) pounds of H2S per hour or abated emission levels in excess of 500 ppmv.

C. Visible emissions shall not exceed the values listed below for more than three (3) minutes in any one (1) hour: • Ringelmann 0.5 (10% opacity) for detached plume at the

cyclone; • Ringelmann 0.5 (10% opacity) for combustion emissions of engine exhaust; and • Ringelmann 1 (20% opacity) for road and pad dust emissions.

D. On commencement of air drilling in significant serpentine, the well logger shall obtain bulk samples that shall be analyzed for asbestos content using TEM, SEM or PLM (California Air Resources Board [ARB] Method 435 Procedures). For the purpose of defining a significant serpentine deposit during geothermal air drilling: "Significant Serpentine" shall mean; drill cutting samples from two consecutive ten-foot interval-drilling sections identified as having 10% or greater serpentine or other asbestos-containing rock. The Lake County Air Quality Management District (LCAQMD) shall be promptly notified by phone at 263-7000, provided samples of the drilled material, and unless otherwise agreed upon in writing, notified of the bulk asbestos analysis results within ten working days of sampling.

E. During drilling in significant serpentine visible emissions shall not exceed Ringelmann 0.25 (5% opacity) for detached plume at the cyclone. BRP shall: 1) Increase down hole misting; 2) Increase water loading at the venturi; 3) Reduce the drilling rate; 4) Use wetting agents; and/or 5) Implement additional solids filtration of working water.

Such additional effort shall continue until drilling is clear of significant serpentine/asbestos.

Condition 2: Administrative

A. This permit has been issued as a modification to include cleanout, forking or deepening of the well as described in the application and permit review. This permit does not establish a precedent for the issuance of additional permits.

B. The submitted BRP (Tecton) H2S abatement plan approved by the APCO shall be implemented and followed, and is incorporated herein by reference. Logbook entries shall be made a minimum of four (4) times daily while drilling on air or in steam.

C. Diesel fuel utilized shall be California Low Sulfur Diesel containing less than 15ppmw sulfur.

D. If a vapor-dominated resource is encountered and it is determined that emissions cannot be maintained pursuant to Parts A & B of LCAQMD Rule 421; or the APCO determines that the well on stand-by (bleed) status will violate the intent of LCAQMD Rule 602 or the associated steamfield permit, then BRP shall, with approval of the APCO, install and utilize additional abatement equipment as necessary to bring emissions into compliance. This may include, but is not limited to, immediate conversion to an injector, gas capping, down-hole plugging, and/or the complete closing in of any well in violation of LCAQMD Rules and Regulations.

E. BRP shall utilize the particulate scrubbing system as substantially described in the permitting review and includes the following configuration: 1) A smooth expansion blooie line with low-pressure constricting and non-constricting interchangeable venturis with water injection for venturi contact/scrubbing. The non-constricting venturi

(Conditions 2 through 6 are continued on the back of this card)

THIS PERMIT BECOMES VOID UPON CHANGE OF OWNERSHIP OR LOCATION

This permit does not authorize the emission of air contaminants in excess of those allowed by the California Health and Safety Code or the Regulations of the Lake County Air Quality Management District. This permit cannot be considered permission to violate existing laws, ordinances, regulations, or statutes of other government agencies. The provisions of this Permit are severable. If any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.

located in the smallest diameter portion of the blooie line (non-constricting venturi 12"-15") for use when flow of at least 20,000 lbs/hr air/steam, and an interchangeable converging venturi scrubber when drilling in less than 20,000 lbs/hr of steam and/or pressure drop does not exceed 4 PSI across the converging to diverging section. The constricting venturi may be removed for problematic operations when concurred with by the LCAQMD, such as well plug drill out or flow testing. Venturis shall utilize a multiport 60 GPM or greater adjustable low-pressure water injection system as described in the permit review. 2) An approximate eight foot section of rectangular ducting that is smoothed internally and matched to the cyclone inlet size to allow laminar flow into the cyclone inlet. 3) A properly sized cyclone separator with a tangential inlet flush with the top of the body and a flow trajectory that avoids striking the outlet barrel. The cyclone shall have a smoothed internal surface with all protrusions and pockets removed. An outlet barrel approximately 1.25 (preferred) to 1.45 times the inlet height with adequate cone clearance; and a 18"-21" open drop arrangement at the terminus of a full 'cone', or alternatively a drop hopper that separates liquid and gas then dropping into a water jet venturi or other recirculating pump system for cuttings removal. 4) Acceptable measurement devices to ensure flows and pressure are properly monitored. The APCO may modify the cyclone drop out requirements based upon presentation of new information and selection of alternatives proven to be effective.

F. If during drilling the subject well, significant liquid, gas or particulate carry through occurs from the cyclone separator stack as a result of unusual circumstances or equipment failure, including but not limited to unexpected large steam or gas entries or water flashing down hole, BRP shall notify the LCAQMD immediately and in no case more than one (1) hour, per Rule Section 510. Such occurrences shall be logged in the bound abatement logbook and the emission and or resulting evidence documented, to the

extent possible, by photographs or video recording. BRP shall provide information on such events and forward such to the LCAQMD.

G. BRP shall comply with the requirements of the Air Toxics "Hot Spots" Information and Assessment Act (AB2588) as specified in Sections 44300 - 44394 of the California Health and Safety Code.

Condition 3: Notification

A. BRP shall notify the LCAOMD pursuant to Rule 510, upon breakdown and/or loss of emissions control from this drilling project.

B. In the event that emissions exceed the allowable limits contained in Condition 1, BRP shall notify the LCAQMD within one (1) hour and shall report: a) The cause of the exceed; b) The actions taken or proposed to minimize emissions and achieve compliance; and c) the estimate of emissions and duration of noncompliance.

C. BRP shall notify the LCAQMD at least twenty-four (24) hours prior to initiating the scheduled venting of any well or group of wells in the LCAQMD. This notice shall also apply to scheduled installation of a liner while the well continues to produce steam. Unscheduled venting, necessary to prevent well damage, shall be reported as a breakdown pursuant to Rule 510. A written report shall be submitted to the LCAQMD, within three (3) days (72 hours) documenting: a) The need for venting; b) The duration of venting; c) Estimated steam flow and emissions; d) Cyclone or other equipment utilized; e) Abatement systems utilized; and f) The likelihood or need for future occurrences.

D. BRP shall promptly notify the LCAQMD in writing should any incident of occupational concern take place where toxic air emissions occur and are allowed to disperse into

the ambient air as mitigation.

E. BRP shall provide a written report of any changes of the estimated amount of serpentine and crystalline silica material expected to be drilled during the air phase as early as practical. Upon completion of drilling, BRP shall provide a final report within sixty (60) days detailing any significant quantity of serpentine (or crystalline silica) material actually encountered during drilling.

Condition 4: Modification/Additions

A. BRP shall apply for and receive an Authority to Construct (A/C) modification permit prior to the addition of different or new equipment not identified in the application, this permit or covered in the permitting review. The LCAQMD Hearing Board, at a properly noticed public hearing, may grant a variance from these conditions.

Condition 5: Monitoring and Testing

A. BRP shall perform and forward to the LCAQMD the following characterization of hot water, steam particulates and/or gases emanating from the subject well within sixty (60) days after the completion of drilling. If the well is to be abandoned, no analyses will be necessary. a) STEAM CONDENSATE/TOTAL STEAM - Ammonium, Arsenic, Asbestos, Benzene, Bicarbonate and Carbonate, Boron, Bromides, Cadmium, Chlorides, Chromium, Fluorides, Hydrogen Sulfide, Lead, Mercury, Nickel, Nitrates, pH, Silica, Selenium, Sulfates, Zinc, Total Dissolved Solids, Total Suspended Solids, Percent Non-Condensables, Steam Flow and Temperature. b) GAS PHASE - Ammonia, Benzene, Carbon Dioxide, Hydrogen Sulfide, Methane, Non-Methane Hydrocarbons, Mercury Vapor, and Radon 222 and Daughters. c) STEAM PARTICULATE*: Arsenic, Boron, Cadmium, Chromium, Lead, Nickel, Total Sulfur (mass all in µg/Kg of steam); Asbestos (fibers/Kg of steam); NESHAP and AB 2588 air pollutants as requested. Tests can be performed utilizing the bleed of the subject well. A test protocol shall be submitted to the LCAQMD at least three (3) weeks before such sample collection and analytical testing is scheduled to occur and shall be approved by the APCO prior to actual source testing. If the well is promptly closed in to a no-vent state, these tests may be delayed upon request of BRP by concurrence of the APCO until such time as the well is produced to the steamline, or placed on vent for 30 or more days, or upon written request of the APCO. *Testing of this type shall consist at a minimum of an XRF analysis of suspended and/or dissolved solids.

B. In the event source testing is deemed necessary by the APCO, BRP shall be available within ten days after written notice, to open the well for 4 to 8 hour duration.

C. If analyses performed as part of Condition 5-A suggests the need for further study, including air dispersion analysis, BRP will assist, perform, or finance such studies if deemed reasonable and necessary by the APCO.

D. BRP shall install and utilize an in-line continuous H2S monitor or other appropriate equipment to ascertain the levels of this pollutant as a function of depth of drilling.

Logging data and test results shall be immediately available to LCAQMD staff upon request at the drill site.

E. Upon request of the APCO, BRP shall perform any additional analytical work necessary to characterize potential emissions from this well prior to applying for a Permit to Operate.

Operate.

F. If a hot water resource is discovered during the drilling of this well, BRP shall, prior to testing to determine the extent of the resource, submit a test plan to the LCAQMD detailing expected air pollutants and mitigating measures. The LCAQMD will either approve the submitted plan or recommend additional mitigating measures necessary, in

writing, prior to actual testing. Total emissions from testing shall be limited to the amount specified in Condition 1.

G. The treatment and use of mud waters for reuse in air drilling is acceptable provided: a) Oils or other hydrocarbons contaminating any reclaimed mud waters are separated prior to use in blooie line treatment during air drilling; and b) The water is analyzed for and shown free of asbestos, and the analysis results are provided to the APCO within

three (3) working days of finishing mud water treatment(s).

H. If the well is placed on extended standby bleed, BRP shall test the well to determine the H2S emissions within three (3) days, and retest the well no sooner than one (1) week, and no later than two (2) weeks after the first test, and thereafter upon a 10% or greater change of flow rate. If emissions are within 90% of the allowable H2S limit, a program of additional testing may be required by the APCO. A written monthly report shall be forwarded to the LCAQMD updating the well status and the estimated emissions, upon request of the APCO.

I. BRP shall participate in or proportionately fund an air monitoring program to assist the LCAQMD in a continued determination of compliance. In the event of considerable public complaints, the LCAQMD may require additional monitoring, testing and studies to characterize said condition and possible mitigation (Section 430 and 670). Participation in a cooperative monitoring effort, such as Geysers Air Monitoring Program, approved by the APCO shall fulfill this requirement.

Condition 6: Identification and Access

A. This permit shall be posted at the project site during the time the drilling equipment is on site, and be available for BRP and LCAQMD staff upon request. If locks or unmanned gates are used to secure the project area, the LCAQMD or its representative, will be given free access of entry for the purposes of monitoring or inspecting.

B. BRP shall provide the LCAQMD, ARB, and Environmental Protection Agency staff entry and safe access to the project site/equipment for the purpose of inspection, source testing, and or air monitoring activities.

This permit is based on the equipment and process submitted by BRP and considered in the A/C assessment. The permit issuance is based on the assumption that the operation of this source, as conditioned, will not result in a violation of LCAQMD Rules and Regulations nor contribute to an exceed of any state or federal Ambient Air Quality Standard.

03/24/23

05/04/23

Total vendor credits applied

03/27/23



USD 14,214.00 check payment to GAMP VI c/o NSCAPCD created by Katie

Payment out # P23032301 - 1465890

Process date Arrival date

GEYSERS AIR MONITORING PROGR... 03/24/23 03/30/23

Paid from Total payment amount City National Bank****9530 Inv #VI-22-02-- bill.com Check Num... USD 14,214.00

Account

Bill.com Money Out Clearing USD 0.00

Check # Check date Check expiration date 69903037 03/27/23 06/25/23

Check images



Paid bills

Invoice #	Chart of account	Due Date	Cu	Amount	Payment amount	Approvers
<u>VI-22-02</u>	Permits	01/01/23	US	14,214.00	14,214.00	Approved



2023 CEC ANNUAL COMPLIANCE REPORT BOTTLE ROCK POWER

Appendix 3

Figure 1 - Vegetation Monitoring Map

Table 1 – Vegetation & Soil Boron Analytical Results

Vegetation & Soil Boron Analytical Reports

Figure 2 – Water Monitoring Map

Table 2 – Groundwater & Surface Water Analytical Results

Groundwater & Surface Water Analytical Reports

Bottle Rock Power, LLC - Vegetation Monitoring Locations

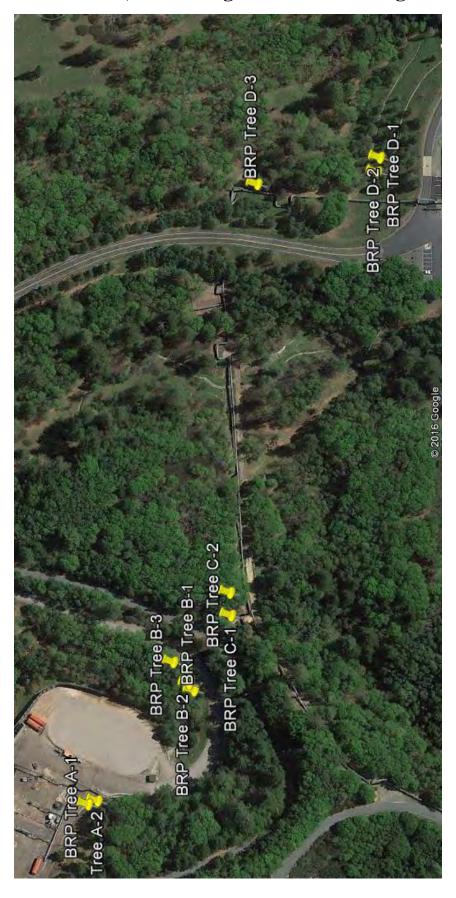


Table 1

Bottle Rock Power, LLC

2023 Vegetation Monitoring Data Needle & Soil Boron Analytical Results

Location ID	UTM Coordinates	Location Description	Sample Type	Boron (mg/kg)	Sample Type	Boron (mg/kg)
A-1	38.83734 -122.77257	Coleman Pad A3-a	Ponderosa Pine Needle	14	Base of Tree Soil	7.7
A-2	38.83729 -122.77255	Coleman Pad A3-b	Ponderosa Pine Needle	15	Base of Tree Soil	ND
B-1	38.83675 -122.77177	West Coleman/Coleman Road BB1-a	Ponderosa Pine Needle	15	Base of Tree Soil	34
B-2	38.83678 -122.77173	West Coleman/Coleman Road (previously BB1-b) now B-2	Ponderosa Pine Needle	10	Base of Tree Soil	87
B-3	38.83687 -122.77157	West Coleman/Coleman Road previously BB1-c	Ponderosa Pine Needle	5.8	Base of Tree Soil	22
C-1	38.83655 -122.77121	Access Road C-1	Ponderosa Pine Needle	17	Base of Tree Soil	16
C-2	38.83655 -122.77105	Access Road C-2	Ponderosa Pine Needle	15	Base of Tree Soil	23
D-1	38.83574 -122.76807	North of Plant Fence Line D-1	Ponderosa Pine Needle	15	Base of Tree Soil	12
D-2	38.83572 -122.76796	North of Plant Fence Line D-2 (previously D-6)	Ponderosa Pine Needle	16	Base of Tree Soil	6.8
D-3	38.8364 -122.76813	North of Plant Fence Line DD-2 (previously DD-2a & b)	Ponderosa Pine Needle	16	Base of Tree Soil	ND

ND - Not Detected

NA - Not Analyzed



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

03 January 2024

Bottle Rock Power

Attn: M. Moore

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Annual Needles

Work Order: 23L2841

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 13:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Annual Needles

Seattle, WA 98103

Project Number: [none]

Reported: 01/03/24 11:29

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A-1	23L2841-01	Other (W)	12/18/23 00:00	12/19/23 13:05
A-2	23L2841-02	Other (W)	12/18/23 00:00	12/19/23 13:05
B-1	23L2841-03	Other (W)	12/18/23 00:00	12/19/23 13:05
B-2	23L2841-04	Other (W)	12/18/23 00:00	12/19/23 13:05
B-3	23L2841-05	Other (W)	12/18/23 00:00	12/19/23 13:05
C-1	23L2841-06	Other (W)	12/18/23 00:00	12/19/23 13:05
C-2	23L2841-07	Other (W)	12/18/23 00:00	12/19/23 13:05
D-1	23L2841-08	Other (W)	12/18/23 00:00	12/19/23 13:05
D-2	23L2841-09	Other (W)	12/18/23 00:00	12/19/23 13:05
D-3	23L2841-10	Other (W)	12/18/23 00:00	12/19/23 13:05



email: clientservices@alpha-labs.com Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Annual Needles

Reported: Seattle, WA 98103 Project Number: [none] 01/03/24 11:29

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP	# Method	Note
A-1 (23L2841-01)		Sample Type: (Other (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	14 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:18	3 2303	EPA 6010B	
A-2 (23L2841-02)		Sample Type: 0	Other (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	15 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:2	2303	EPA 6010B	
B-1 (23L2841-03)		Sample Type: 0	Other (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	15 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:24	2303	EPA 6010B	
B-2 (23L2841-04)		Sample Type: 0	Other (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	10 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:27	7 2303	EPA 6010B	
B-3 (23L2841-05)		Sample Type: 0	Other (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	5.8 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:30	2303	EPA 6010B	
C-1 (23L2841-06)		Sample Type: 0	Other (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	17 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:33	3 2303	EPA 6010B	
C-2 (23L2841-07)		Sample Type: 0	Other (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	15 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:42	2 2303	EPA 6010B	
D-1 (23L2841-08)		Sample Type: 0	Other (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	15 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:4:	2303	EPA 6010B	
D-2 (23L2841-09)		Sample Type: 0	Other (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	16 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:49	2303	EPA 6010B	
D-3 (23L2841-10)		Sample Type: Other		V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods					_				
Boron	16 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:52	2 2303	EPA 6010B	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Seattle, WA 98103

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Annual Needles

Project Number: [none]

Reported: 01/03/24 11:29

Metals by EPA 6000/7000 Series Methods - Quality Control

					_						
		Reporting		Spike	Source		%REC			-	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag	
Batch AL34576 - NB EPA 3050B											
Blank (AL34576-BLK1)				Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	ND	5.0	mg/kg								
LCS (AL34576-BS1)				Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	223	5.0	mg/kg	250		89.0	80-120				
LCS Dup (AL34576-BSD1)				Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	230	5.0	mg/kg	250		92.0	80-120	3.31	20		
Matrix Spike (AL34576-MS1)	Sour	ce: 23L284	1-01	Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	208	5.0	mg/kg	231	13.8	84.1	75-125				
Matrix Spike (AL34576-MS2)	Sour	ce: 23L284	4-01	Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	222	5.0	mg/kg	231	7.69	92.4	75-125				
Matrix Spike Dup (AL34576-MSD1)	Sour	Prepared:	12/20/23 A	nalyzed: 12	2/22/23						
Boron	211	5.0	mg/kg	238	13.8	82.8	75-125	1.25	20		
Matrix Spike Dup (AL34576-MSD2)	Sour	ce: 23L284	4-01	Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	230	5.0	mg/kg	234	7.69	95.0	75-125	3.52	20		



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Annual Needles

Seattle, WA 98103

Project Number: [none]

Reported: 01/03/24 11:29

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



WATERS, SEDIMENTS, SOLIDS

Corporate Laboratory (1551) 208 Mason Street, Ukiah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

North Bay Laboratory (2303)

737 Southpoint Blvd, Ste D, Petaluma 94954

ory (2728) 262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922) 9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center 2722 Loker Ave West, Ste A, Carlsbad CA 92010 Chain of Custody - Work Order

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email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

04 January 2024

Bottle Rock Power

Attn: Richard

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Annual Soil

Work Order: 23L2844

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 13:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400

Project: Annual Soil

Seattle, WA 98103

Project Number: [none]

Reported: 01/04/24 12:26

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A-1	23L2844-01	Soil	12/18/23 00:00	12/19/23 13:05
A-2	23L2844-02	Other (W)	12/18/23 00:00	12/19/23 13:05
B-1	23L2844-03	Other (W)	12/18/23 00:00	12/19/23 13:05
B-2	23L2844-04	Other (W)	12/18/23 00:00	12/19/23 13:05
B-3	23L2844-05	Other (W)	12/18/23 00:00	12/19/23 13:05
C-1	23L2844-06	Other (W)	12/18/23 00:00	12/19/23 13:05
C-2	23L2844-07	Other (W)	12/18/23 00:00	12/19/23 13:05
D-1	23L2844-08	Other (W)	12/18/23 00:00	12/19/23 13:05
D-2	23L2844-09	Other (W)	12/18/23 00:00	12/19/23 13:05
D-3	23L2844-10	Other (W)	12/18/23 00:00	12/19/23 13:05



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: Richard 4010 Stone Way North, Suite 400 Project: Annual Soil Reported: Seattle, WA 98103 Project Number: [none] 01/04/24 12:26

	Result Units	Reporting Limit 1	Dilution	Batch	Prepared	Analyzed	ELAP	# Method	Note
A-1 (23L2844-01)		Sample Type: S	oil		Sampled	: 12/18/23 00:0	00		
Metals by EPA 6000/7000 Series Methods									
Boron	7.7 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:5	5 2303	EPA 6010B	
A-2 (23L2844-02)		Sample Type: C	ther (V	V)	Sampled	: 12/18/23 00:0	00		
Metals by EPA 6000/7000 Series Methods									
Boron	ND mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 08:5	8 2303	EPA 6010B	
B-1 (23L2844-03)		Sample Type: C	ther (V	V)	Sampled	: 12/18/23 00:0	00		
Metals by EPA 6000/7000 Series Methods									
Boron	34 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 09:0	1 2303	EPA 6010B	
B-2 (23L2844-04)		Sample Type: C	ther (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	87 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 09:0	4 2303	EPA 6010B	
B-3 (23L2844-05)		Sample Type: C	ther (V	V)	Sampled	: 12/18/23 00:0	00		
Metals by EPA 6000/7000 Series Methods									
Boron	22 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 09:0	7 2303	EPA 6010B	
C-1 (23L2844-06)		Sample Type: C	ther (V	V)	Sampled	: 12/18/23 00:0	00		
Metals by EPA 6000/7000 Series Methods									
Boron	16 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 09:1	0 2303	EPA 6010B	
C-2 (23L2844-07)		Sample Type: C	ther (V	V)	Sampled	: 12/18/23 00:0	00		
Metals by EPA 6000/7000 Series Methods									
Boron	23 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 09:1	9 2303	EPA 6010B	
D-1 (23L2844-08)		Sample Type: C	ther (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	12 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 09:2	3 2303	EPA 6010B	
D-2 (23L2844-09)		Sample Type: C	ther (V	V)	Sampled	: 12/18/23 00:0	0		
Metals by EPA 6000/7000 Series Methods									
Boron	6.8 mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 09:2	6 2303	EPA 6010B	
D-3 (23L2844-10)		Sample Type: C	ther (V	V)	Sampled	: 12/18/23 00:0	00		
Metals by EPA 6000/7000 Series Methods									
Boron	ND mg/kg	5.0	1	AL34576	12/20/23 09:42	12/22/23 09:2	9 2303	EPA 6010B	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400

Project: Annual Soil

Seattle, WA 98103

Project Number: [none]

Reported: 01/04/24 12:26

Metals by EPA 6000/7000 Series Methods - Quality Control

		D		C:1	Source		%REC		DDD		
Analyte(s)	Result	Reporting Limit	Units	Spike Level	Result	%REC	%REC Limits	RPD		Flag	
• • •	Ttoball	2	Omio	20,01	1100411	, vital 6	Ziiiii	14.5	2		
Batch AL34576 - NB EPA 3050B											
Blank (AL34576-BLK1)				Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	ND	5.0	mg/kg								
LCS (AL34576-BS1)				Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	223	5.0	mg/kg	250		89.0	80-120				
LCS Dup (AL34576-BSD1)				Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	230	5.0	mg/kg	250		92.0	80-120	3.31	20		
Matrix Spike (AL34576-MS1)	Sour	ce: 23L284	1-01	Prepared:	12/20/23 A	nalyzed: 12	2/22/23		31 20		
Boron	208	5.0	mg/kg	231	13.8	84.1	75-125				
Matrix Spike (AL34576-MS2)	Sour	ce: 23L284	4-01	Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	222	5.0	mg/kg	231	7.69	92.4	75-125				
Matrix Spike Dup (AL34576-MSD1)	Source: 23L2841-01 Pr				12/20/23 A	nalyzed: 12	2/22/23				
Boron	211	5.0	mg/kg	238	13.8	82.8	75-125	1.25	20		
Matrix Spike Dup (AL34576-MSD2)	Sour	ce: 23L284	4-01	Prepared:	12/20/23 A	nalyzed: 12	2/22/23				
Boron	230	5.0	mg/kg	234	7.69	95.0	75-125	3.52	20		



email: clientservices@alpha-labs.com

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Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400

Project: Annual Soil

Seattle, WA 98103

Project Number: [none]

Reported:

01/04/24 12:26

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

* ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



Corporate Laboracory (1551) 208 Mason Street, Ukrah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

mory (2728) 262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922) 9090 Union Park Way #113, Elk Grove CA 95624

North Bay Laboratory (2303)

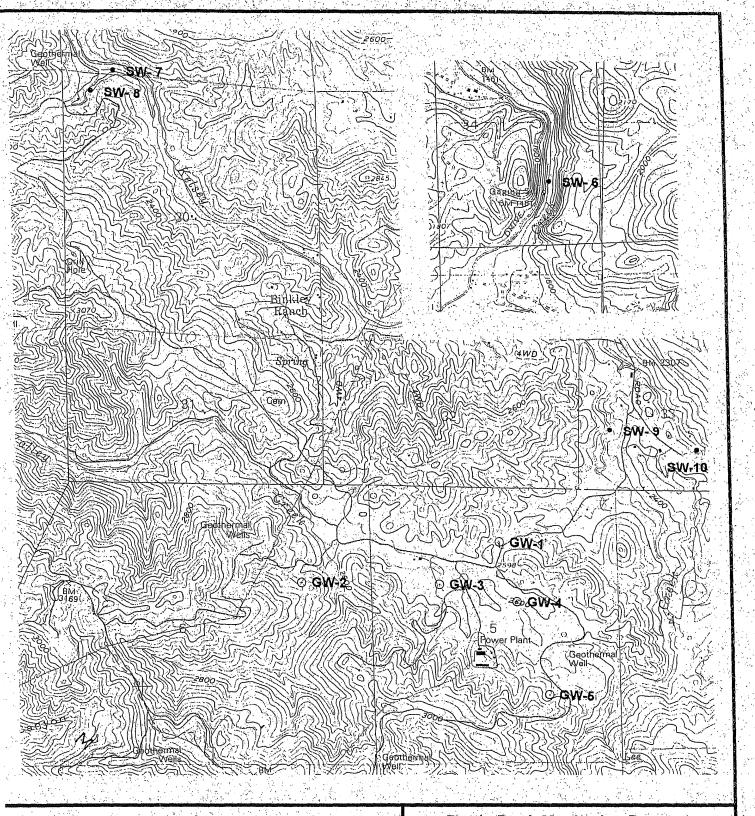
737 Southpoint Blvd, Ste D, Petaluma 94954

San Diego Service Center 2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and invoices delivered by email in PDF format

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Bottle Rock Monitoring Program
Water Quality Sample

Locations

Scale: 1inch = 2000 feet

Project No: 0068-026-02

Date: June 2003

FIG.1.1

Table 2
Bottle Rock Power, LLC
2023 Ground Water and Surface Water Monitoring
1st Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	हें Arsenic	m √ Calcium	ធ្នី Magnesium	யீ Hardness	l/Boron	de Copper	m ≧ Iron	ந் ந் Lead	n Manganese	Sodium	de Zinc	Hd	n So Electrical Conductivity	g Disolved Oxygen	Z Turbidity	ந் Total Alkalinity	m Nitrate ✓	த் Sulfate	मू ट्रि Total Suspended Solids	된 고
GW-1		Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	47	16	183	ND	ND	ND	ND	0.11	8.6	ND	7.45	380	NA	ND	180	ND	23	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	34	10	127	0.4	ND	0.32	ND	0.053	25	ND	7.56	350	NA	2.4	180	ND	6.3	ND	NA
SW-6		Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey	ND	7.5	5.9	43	ND	ND	0.11	ND	ND	ND	ND	6.91	100	11	2.8	45	NA	3.7	ND	150
SW-7	38 52' 04.62" N 122 47' 43.13" W	High Valley Creek; behind Binkley Ranch House	ND	7.6	5.8	43	ND	ND	0.11	ND	ND	ND	ND	6.53	100	11	3	45	NA	3.7	ND	260
SW-8	122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	6.8	4.2	34	ND	ND	0.11	ND	ND	ND	ND	6.92	82	11	3.3	36	NA	2.2	5	200
SW-9		Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	6.5	3.9	32	ND	ND	0.12	ND	ND	ND	ND	6.88	81	11	2.8	37	NA	2.2	2	340
SW-10	122 44' 57.25" W	Kelsey Creek - Upstream; ~0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	6.6	4	33	ND	ND	0.23	ND	ND	ND	ND	6.89	81	11	3.2	36	NA	2.2	1.8	310

ND = Not Detected

NA = Not Analyzed

Table 2
Bottle Rock Power, LLC
2023 Ground Water and Surface Water Monitoring
2nd Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	क्षे Arsenic	B I∕ Calcium	യ്യ ച്ച Magnesium	ଅ ଅଧି Hardness	l/gm l/gbron	l/gm Copper	ll.on mg/l	B ☑ Lead	യ ച	ng Sodium	Joseph Zinc	Hq	Electrical Conductivity	লু Disolved Oxygen	Z Z Turbidity	प्र प्रे Total Alkalinity	ld Nitrate	ga Sulfate	ह्य Total Suspended Solids	K 전 Total Coliform Z
GW-1		Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	45	15	176	ND	ND	ND	ND	0.11	8.5	ND	7.79	380	NA	ND		ND	18	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	32	9.9	121	0.4	ND	0.15	ND	0.044	24	ND	7.79	350	NA	1	180	ND	5.4	ND	NA
SW-6		Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey Creek	ND	6	3.7	30	ND	ND	ND	ND	ND	ND	ND	7.2	88	9.6	ND	40	NA	1.6	ND	980
SW-7	38 52' 04.62" N 122 47' 43.13" W	High Valley Creek; behind Binkley Ranch House	ND	28	12	118	0.35	ND	ND	ND	0.057	19	ND	7.33	320	9.7	ND	150	NA	14	ND	2000
SW-8	122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	5.9	3.7	30	ND	ND	ND	ND	ND	ND	ND	7.32	91	9.7	ND	40	NA	1.6	ND	520
SW-9		Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	5.9	3.7	30	ND	ND	ND	ND	ND	ND	ND	9.7	88	9.7	ND	41	NA	1.7	ND	2400
SW-10	122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	6	3.7	30	ND	ND	ND	ND	ND	ND	ND	7.33	89	9.7	1.2	43	NA	1.6	3.3	1600

ND = Not Detected

NA = Not Analyzed

Table 2
Bottle Rock Power, LLC
2023 Ground Water and Surface Water Monitoring
3rd Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	क्षे Arsenic	യ പ്	ଞ୍ଚ Magnesium	ß Lardness	mg/l	l/gm Copper	non lyon	g ⊵ Lead	മ ഉ	mg/l	mg/l	Hd	moyso Electrical Conductivity	ந் Disolved Oxygen	Z Turbidity	ଜୁ Total Alkalinity	g ☑ Nitrate	B Sulfate √	ह्यू Total Suspended Solids	동 Z Total Coliform
GW-1		Barret Spring; Running seep at sharp turn, downslope on High Valley Road	MN D	40	13	155	ND	ND	ND	ND	0.099	7.5	ND		390	NA			ND	21	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	28	8.7	105	0.35	ND	0.44	ND	0.044	21	ND	7.96	360	NA	3.6	170	ND	6.4	ND	NA
SW-6		Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey Creek	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	7.48	77	9.2	ND	34	NA	1.2	1.2	>2419.6
SW-7	38 52' 04.62" N 122 47' 43.13" W	High Valley Creek; behind Binkley Ranch House	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	7.56	96	9.1	ND	34	NA	1.2	ND	1000
SW-8	122 47' 40.01" W	Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	7.47	76	9	ND	34	NA	1.2	1.7	1000
SW-9		Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	7.51	78	9.3	ND	34	NA	1.2	ND	>2419.6
SW-10	122 44' 57.25" W	Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	7.44	77	9.2	ND	45	ND	1.2	1.5	>2419.6

ND = Not Detected NA = Not Analyzed

Table 2
Bottle Rock Power, LLC
2023 Ground Water and Surface Water Monitoring
4th Quarter Analytical Results

Location ID	GPS Coordinates	Location & Description	म् ट्रे Arsenic	a ∐ Calcium	g த Magnesium	മ പ്	mg/l	g Copper	uoJ mg/l	l/gm Lead	മ ഇ Manganese	g Sodium	l/gm	Hd	by So So So So So So So So So So So So So	লু Disolved Oxygen	Z Turbidity	ह्य Total Alkalinity	© Nitrate √	g Sulfate	ট্র Total Suspended Solids	K 전 Z
GW-1		Barret Spring; Running seep at sharp turn, downslope on High Valley Road	ND	50	16	190	ND	ND	ND	ND	0.11	8.3	ND		420	NA	ND	170	ND	47	ND	NA
GW-3	38 50' 21.57" N 122 46' 17.46 W	BRP WW1; Northern most water supply well	ND	34	10	127	0.4	ND	0.4	ND	0.06	26	0.3	7.72	370	NA	2.6	180	ND	5.9	1.4	NA
SW-6		Kelsey Creek - Downstream; ~ 3 miles west of HWY 29 on Kelsey Creek	ND	6.4	11	62	ND	ND	2.5	ND	0.07	ND	ND	7.54	120	10.0	24	60	NA	2.8	29	>2419.6
SW-7	38 52' 04.62" N 122 47' 43.13" W	High Valley Creek; behind Binkley Ranch House	ND	7.4	7.5	50	ND	ND	1.1	ND	0.03	ND	ND	7.49	110	10	20	48	NA	3.5	13	>2419.6
SW-8		Kelsey Creek - Middle; Northwest of Binkley Ranch House, upstream of confluence with High Valley Creek	ND	5	5.7	36	ND	ND	1.30	ND	0.04	ND	ND	7.35	84	10	19	42	NA	2	24	690
SW-9	1	Alder Creek; Adjacent to High Valley Road bridge crossing Alder Creek	ND	6.6	4.3	34	ND	ND	0.89	ND	0.03	ND	ND	7.65	78	11	15	38	NA	2.3	14	>2419.6
SW-10		Kelsey Creek - Upstream; ~ 0.5 miles west of High Valley Road gate on Bottle Rock Road	ND	ND	5.8	35	ND	ND	1.7	ND	0.07	ND	ND	7.36	85	10	19.0	37	NA	1.7	38	>2419.6

ND = Not Detected NA = Not Analyzed



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

13 April 2023

Bottle Rock Power

Attn: M. Moore

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Groundwater

Work Order: 23C4057

Enclosed are the results of analyses for samples received by the laboratory on 03/24/23 13:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Reported:

Seattle, WA 98103

Project Number: [none]

04/13/23 15:10

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-3	23C4057-01	Water	03/24/23 09:00	03/24/23 13:20
GW-1	23C4057-02	Water	03/24/23 09:35	03/24/23 13:20



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 Project Number: [none]

Reported: 04/13/23 15:10

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (23C4057-01)		Sample Type: V	Water		Sampled	1: 03/24/23 09:0	0		
Metals by EPA 200 Series Methods									
Arsenic	ND ug/L	2.0	1	AC35642	03/27/23 07:10	03/29/23 09:39	2303*	EPA 200.5	
Boron	0.40 mg/L	0.10	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	EPA 200.7	
Calcium	34 mg/L	5.0	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	EPA 200.7	
Iron	0.32 mg/L	0.10	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	EPA 200.7	
Magnesium	10 mg/L	0.60	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	EPA 200.7	
Manganese	0.053 mg/L	0.020	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	EPA 200.7	
Sodium	25 mg/L	6.0	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	EPA 200.7	
Conventional Chemistry Parameters by APH	IA/EPA Methods								
рН	7.56 pH Units	1.00	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	350 umhos/cm	10	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM2510B	
Total Alkalinity as CaCO3	180 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AC35744	03/28/23 13:15	03/29/23 11:15	1551	SM2540D	
Turbidity	2.4 NTU	1.0	1	AC33823	03/24/23 14:00	03/24/23 16:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	170 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hardness, Total	127 mg/L	1	1	AC35643	03/27/23 07:33	03/27/23 09:10	2303	SM2340B	
Anions by EPA Method 300.0									
Nitrate as N	ND mg/L	0.40	1	AC35553	03/24/23 14:01	03/24/23 17:22	2303	EPA 300.0	
Sulfate as SO4	6.3 mg/L	0.50	1	AC35553	03/24/23 14:01	03/24/23 17:22	2303	EPA 300.0	
GW-1 (23C4057-02)		Sample Type: V	Water		Sampled	1: 03/24/23 09:3	5		
Metals by EPA 200 Series Methods					_				
Arsenic	ND ug/L	2.0	1	AC35642	03/27/23 07:10	03/29/23 09:46	2303*	EPA 200.5	
Boron	ND mg/L	0.10	1	AC35643	03/27/23 07:33	03/27/23 09:13	2303	EPA 200.7	
Calcium	47 mg/L	5.0	1	AC35643	03/27/23 07:33	03/27/23 09:13	2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AC35643	03/27/23 07:33	03/27/23 09:13	2303	EPA 200.7	
Iron	ND mg/L	0.10	1	AC35643	03/27/23 07:33	03/27/23 09:13	2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AC35643	03/27/23 07:33	03/27/23 09:13	2303	EPA 200.7	
Magnesium	16 mg/L	0.60	1	AC35643	03/27/23 07:33	03/27/23 09:13	2303	EPA 200.7	
Manganese	0.11 mg/L	0.020	1	AC35643	03/27/23 07:33	03/27/23 09:13	2303	EPA 200.7	
Sodium	8.6 mg/L	6.0	1	AC35643	03/27/23 07:33	03/27/23 09:13	2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AC35643	03/27/23 07:33	03/27/23 09:13	2303	EPA 200.7	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 Project Number: [none]

Reported: 04/13/23 15:10

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP# Method	Note
GW-1 (23C4057-02)		Sample Type: `	Water		Sampleo	1: 03/24/23 09:3	35	
Conventional Chemistry Parameters by APHA/EI	PA Methods							
рН	7.45 pH Units	1.00	1	AC35344	03/24/23 14:00	03/24/23 16:2	0 2303 SM4500-H+ E	T-14
Specific Conductance (EC)	380 umhos/cm	10	1	AC35344	03/24/23 14:00	03/24/23 16:2	0 2303 SM2510B	
Total Alkalinity as CaCO3	180 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:0	0 2303 SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AC35744	03/28/23 13:15	03/29/23 11:1	5 1551 SM2540D	
Turbidity	ND NTU	1.0	1	AC33823	03/24/23 14:00	03/24/23 16:0	0 2303 SM2130B	
Bicarbonate Alkalinity as CaCO3	180 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:0	0 2303 SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:0	0 2303 SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:0	0 2303 SM2320B	
Hardness, Total	183 mg/L	1	1	AC35643	03/27/23 07:33	03/27/23 09:1	3 2303 SM2340B	
Anions by EPA Method 300.0								
Nitrate as N	ND mg/L	0.40	1	AC35553	03/24/23 14:01	03/24/23 17:3	4 2303 EPA 300.0	
Sulfate as SO4	23 mg/L	0.50	1	AC35553	03/24/23 14:01	03/24/23 17:3	4 2303 EPA 300.0	



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Bottle Rock Power

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Project: Groundwater

Seattle, WA 98103 Project Number: [none]

Reported: 04/13/23 15:10

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Analyte(s)	Result	Lillit	Omts	Level	Result	70KLC	Lillits	KI D	Limit	1 146
Batch AC35642 - NB EPA 200 series										
Blank (AC35642-BLK1)				Prepared: 0	03/27/23 A	nalyzed: 03	/29/23			
Arsenic	ND	2.0	ug/L							
LCS (AC35642-BS1)				Prepared: 0)3/27/23 Aı	nalyzed: 03	/29/23			
Arsenic	10.3	2.0	ug/L	10.0		103	85-115			
LCS Dup (AC35642-BSD1)				Prepared: 0)3/27/23 Aı	nalvzed: 03	/29/23			
Arsenic	10.5	2.0	ug/L	10.0		105	85-115	1.77	20	
D. F. 4 (AC25(42 DVPS)	· · · ·	ce: 23C406	1.02	Dron J C	2/27/22	. olyvas J. 02	/20/22			
Duplicate (AC35642-DUP1) Arsenic	3.92	2.0	1-02 ug/L	Prepared: 0	4.26	naiyzed: 03	129/23	8.32	20	
Aisenic	3.92	2.0	ug/L		4.20			6.32	20	
MRL Check (AC35642-MRL1)				Prepared: 0	03/27/23 A	nalyzed: 03	/29/23			
Arsenic	2.38	2.0	ug/L	2.00		119	0-200			
Matrix Spike (AC35642-MS1)	Sour	ce: 23C406	8-01	Prepared: 0)3/27/23 Aı	nalyzed: 03	/29/23			
Arsenic	10.8	2.0	ug/L	10.0	ND	108	70-130			
Batch AC35643 - NB EPA 200 series DA										
Blank (AC35643-BLK1)				Prepared &	: Analyzed:	03/27/23				
Boron	ND	0.10	mg/L	·F ·· · · · ·						
Calcium	ND	5.0	mg/L							
Copper	ND	0.050	mg/L							
Iron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Zinc	ND	0.30	mg/L							



Reported:

04/13/23 15:10

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: [none]

Metals by EPA 200 Series Methods - Quality Control

A 147	D I	Reporting	TT '4	Spike	Source	0/DEC	%REC	DDD	RPD	Els -
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC35643 - NB EPA 200 series DA										
LCS (AC35643-BS1)				Prepared &	Analyzed:	03/27/23				
Boron	0.489	0.10	mg/L	0.500		97.7	85-115			
Calcium	24.7	5.0	mg/L	25.5		96.9	85-115			
Copper	0.481	0.050	mg/L	0.500		96.2	85-115			
Iron	0.513	0.10	mg/L	0.500		103	85-115			
Lead	0.475	0.020	mg/L	0.500		95.1	85-115			
Magnesium	26.0	0.60	mg/L	25.5		102	85-115			
Manganese	0.507	0.020	mg/L	0.500		101	85-115			
Sodium	26.0	6.0	mg/L	25.5		102	85-115			
Zinc	0.499	0.30	mg/L	0.500		99.9	85-115			
LCS Dup (AC35643-BSD1)				Prepared &	Analyzed:	03/27/23				
Boron	0.486	0.10	mg/L	0.500		97.3	85-115	0.451	20	
Calcium	24.4	5.0	mg/L	25.5		95.6	85-115	1.35	20	
Copper	0.478	0.050	mg/L	0.500		95.6	85-115	0.646	20	
Iron	0.510	0.10	mg/L	0.500		102	85-115	0.684	20	
Lead	0.471	0.020	mg/L	0.500		94.1	85-115	1.01	20	
Magnesium	25.7	0.60	mg/L	25.5		101	85-115	1.16	20	
Manganese	0.503	0.020	mg/L	0.500		101	85-115	0.653	20	
Sodium	25.6	6.0	mg/L	25.5		100	85-115	1.42	20	
Zinc	0.499	0.30	mg/L	0.500		99.7	85-115	0.160	20	
Duplicate (AC35643-DUP1)	Sou	rce: 23C405	7-01	Prepared &	Analyzed:	03/27/23				
Boron	0.403	0.10	mg/L		0.399			0.922	20	
Calcium	34.0	5.0	mg/L		33.5			1.30	20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.325	0.10	mg/L		0.319			1.80	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	10.6	0.60	mg/L		10.4			1.65	20	
Manganese	0.0533	0.020	mg/L		0.0531			0.376	20	
Sodium	25.2	6.0	mg/L		24.9			1.21	20	
Zinc	ND	0.30	mg/L		ND				20	



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Bottle Rock Power

Project Manager: M. Moore

Project Number: [none]

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Reported: 04/13/23 15:10

Metals by EPA 200 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC35643 - NB EPA 200 series DA										
MRL Check (AC35643-MRL1)				Prepared &	Analyzed:	03/27/23				
Boron	0.0991	0.10	mg/L	0.100		99.1	0-200			
Calcium	4.79	5.0	mg/L	5.00		95.7	0-200			
Copper	0.0952	0.050	mg/L	0.100		95.2	0-200			
Iron	0.102	0.10	mg/L	0.100		102	0-200			
Lead	0.0183	0.020	mg/L	0.0200		91.5	0-200			
Magnesium	0.495	0.60	mg/L	0.500		99.1	0-200			
Manganese	0.0207	0.020	mg/L	0.0200		104	0-200			
Sodium	5.12	6.0	mg/L	5.00		102	0-200			
Zine	0.368	0.30	mg/L	0.350		105	0-200			
Matrix Spike (AC35643-MS1)	Sou	ırce: 23C405	7-02	Prepared &	: Analyzed:	03/27/23				
Boron	0.581	0.10	mg/L	0.500	ND	97.4	70-130			
Copper	0.487	0.050	mg/L	0.500	ND	97.4	70-130			
Iron	0.549	0.10	mg/L	0.500	ND	110	70-130			
Lead	0.473	0.020	mg/L	0.500	ND	94.7	70-130			
Manganese	0.599	0.020	mg/L	0.500	0.107	98.5	70-130			
Sodium	33.5	6.0	mg/L	25.5	8.62	97.8	70-130			
Zinc	0.505	0.30	mg/L	0.500	ND	101	70-130			



Reported:

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Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 04/13/23 15:10 Project Number: [none]

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC35344 - NB General Prep										
Duplicate (AC35344-DUP1)	Sour	ce: 23C359	7-01	Prepared &	Analyzed:	03/23/23				
Specific Conductance (EC)	371	10	umhos/cm		370			0.270	5	
pH	7.71	1.00	pH Units		7.68			0.390	20	
Batch AC35643 - NB EPA 200 series DA										
Blank (AC35643-BLK1)				Prepared &	Analyzed:	03/27/23				
Hardness, Total	ND	1	mg/L							
Duplicate (AC35643-DUP1)	Sour	ce: 23C405	7-01	Prepared &	: Analyzed:	03/27/23				
Hardness, Total	128	1	mg/L		127			1.42	20	
Batch AC35744 - General Preparation										
Daten AC33/44 - General Freparation										
Blank (AC35744-BLK1)				Prepared: ()3/28/23 Aı	nalyzed: 03	/29/23			
•	ND	1.0	mg/L	Prepared: ()3/28/23 Aı	nalyzed: 03	/29/23			
Blank (AC35744-BLK1)		1.0 ce: 23C407	_		03/28/23 Ai					
Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1)			_					15.9	30	
Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids	Sour 58.0	ce: 23C407	18-01 mg/L	Prepared: ()3/28/23 Aı	nalyzed: 03	/29/23	15.9	30	
Blank (AC35744-BLK1) Total Suspended Solids	Sour 58.0	ce: 23C407	18-01 mg/L	Prepared: (03/28/23 At 68.0	nalyzed: 03	/29/23	15.9	30	
Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids	Sour 58.0 Sour	ce: 23C407	8-01 mg/L	Prepared: (03/28/23 Ai 68.0	nalyzed: 03	/29/23			
Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids	Sour 58.0 Sour	ce: 23C407	8-01 mg/L	Prepared: (03/28/23 Ai 68.0	nalyzed: 03	/29/23			
Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids Batch AC35802 - NB General Prep	Sour 58.0 Sour	ce: 23C407	8-01 mg/L	Prepared: (03/28/23 At 68.0 03/28/23 At 907	nalyzed: 03	/29/23			
Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids Batch AC35802 - NB General Prep Blank (AC35802-BLK1)	\$0ur 58.0 \$0ur 927	ce: 23C407 1.0 ce: 23C408	mg/L mg/L mg/L	Prepared: (03/28/23 At 68.0 03/28/23 At 907	nalyzed: 03	/29/23			
Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids Batch AC35802 - NB General Prep Blank (AC35802-BLK1) Total Alkalinity as CaCO3	\$0ur 58.0 \$0ur 927	ce: 23C408 1.0 5.0	8-01 mg/L 1-01 mg/L	Prepared: (03/28/23 At 68.0 03/28/23 At 907	nalyzed: 03	/29/23			



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Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Reported: 04/13/23 15:10 Project Number: [none]

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC35802 - NB General Prep										
LCS (AC35802-BS1)				Prepared &	Analyzed:	03/28/23				
Total Alkalinity as CaCO3	984	5.0	mg/L	1000		98.4	80-120			
Duplicate (AC35802-DUP1)	Sour	ce: 23C405	7-02	Prepared &	Analyzed:	03/28/23				
Total Alkalinity as CaCO3	181	5.0	mg/L		180			0.277	20	
Bicarbonate Alkalinity as CaCO3	180	5.0	mg/L		180			0.277	20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	



Nitrate as N

Sulfate as SO4

Nitrate as N

Matrix Spike Dup (AC35553-MSD1)

Alpha Analytical Laboratories, Inc.

email: clientservices@alpha-labs.com

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Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

1.86

9.35

1.67

0.40

0.50

0.40

Source: 23C4052-02

mg/L

mg/L

mg/L

1.80

8.00

1.80

ND

Prepared & Analyzed: 03/24/23

2.21

ND

99.1

89.3

88.6

80-120

80-120

80-120

5.17

5 17

20

20

Reported: Seattle, WA 98103 04/13/23 15:10 Project Number: [none]

Anions by EPA Method 300.0 - Quality Control

Reporting Spike %REC RPD RPD Flag Analyte(s) Result Limit Units Level Result %REC Limits Limit Batch AC35553 - NB General Prep Blank (AC35553-BLK1) Prepared & Analyzed: 03/24/23 Sulfate as SO4 ND 0.50 mg/L ND Nitrate as N 0.40 mg/LPrepared: 03/24/23 Analyzed: 03/27/23 LCS (AC35553-BS1) 8.17 Sulfate as SO4 0.50 mg/L 8.00 102 90-110 Nitrate as N 1.83 0.40 1.80 101 90-110 mg/L Duplicate (AC35553-DUP1) Source: 23C4052-01 Prepared & Analyzed: 03/24/23 Sulfate as SO4 3.72 mg/L 3.73 0.199 20 ND 5.04 20 Nitrate as N 0.40mg/LND Source: 23C4052-02 Prepared & Analyzed: 03/24/23 Matrix Spike (AC35553-MS1) 1.75 Nitrate as N 0.40 mg/L1.80 ND 93 5 80-120 Sulfate as SO4 9.85 0.50 mg/L8.00 2.21 95.5 80-120 Matrix Spike (AC35553-MS2) Source: 23C4061-01 Prepared & Analyzed: 03/24/23 14.8 Sulfate as SO4 0.50 mg/L 8.00 5.88 112 80-120



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Seattle, WA 98103

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Project Number: [none]

Reported:

04/13/23 15:10

Notes and Definitions

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

^{*} ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



WATERS, SEDIMENTS, SOLIDS

Corporate Laboratory (1551)

208 Mason Street, Ukiah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

North Bay Laboratory (2303) 737 Southpoint Blvd, Ste D, Petaluma 94954 Bay Area Laboratory (2728) 262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922) 9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center 2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

of_

Report to	-	voice to (if dif	ferer	it)			_	_	ct In	forn	natio	n					Sig	natu	re be	low a	uthoria	zes w	ork ı	under	terms stated on rev	erse side.
Company: Bottle Rock Power	Contact:						188	ject ottle		k M	lonit	orin	g-G	w					Ana	alys	is R	eque	st			TAT	TEMP °C
Attn: Stay Hepper Richard Lacy Address: PO Box 326 Cobb, CA 95426 Phone/Fax: 707-529-3799 Email Address:	Email addres Address: Phone/Fax:	55:						ject Num	No:	•					ers per Sample ID											Standard 10 days RUSH: 5 days 48 hours	Ukiah Livermore Elk Grove
Field Sampler - Printed Name & Signatur Richard Lacy Sample Identification	e: Samı	oling	DA Vial	Plastic					rvati		inking Water	tewater	atrix	Other	Total Number of Container	ALK, Ph, ec	Turbidity & TSS	Hardness, SO4	Cu, Fe & Pb	Mn, Na & Zn	& NO3		Hap	Field TDS ppm		Other: days O Preapproval required	Petaluma 13 Carlsbad
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Richard Kay	Z			U		M	6							3/2	.4/	2,3	1	322		CA (Global EDF to	Geot	please racke	ente	r the	eport	Sampling Company Log	Yes No
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wko_NBtoUK_COC.rpt

WORK ORDER

Printed: 3/24/2023 1:43:36PM

23C4057

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bottle Rock Power Client Code: NB BOTTLEROCK **Master Bid** Bid: Project: Groundwater Project Number: [none] PO #: Date Due: 04/07/23 15:00 (10 day TAT) Alfredo C. Lorenzo Received By: Date Received: 03/24/23 13:20 Alfredo C. Lorenzo Logged In By: Date Logged 03/24/23 13:38 Samples Received at: All containers received and intact: YES NO **Analysis** Department **Expires** Comments 23C4057-01 GW-3 [Water] Sampled 03/24/23 09:00 Solids, TSS-SM2540D Wet Chem 03/31/23 23:59 23C4057-02 GW-1 [Water] Sampled 03/24/23 09:35 Solids, TSS-SM2540D Wet Chem 03/31/23 23:59

Containers Supplied:

1L Poly - Unpres (C)

1L Poly - Unpres (C)

Relinquished By

Received B

Page 1 of 1



Alpha Analytical Laboratories, Inc. email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

13 April 2023

Bottle Rock Power

Attn: M. Moore

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Surface Water

Work Order: 23C4052

Enclosed are the results of analyses for samples received by the laboratory on 03/24/23 13:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: [none]

Reported: 04/13/23 15:16

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-7	23C4052-01	Water	03/24/23 09:20	03/24/23 13:20
SW-9	23C4052-02	Water	03/24/23 09:50	03/24/23 13:20
SW-10	23C4052-03	Water	03/24/23 10:15	03/24/23 13:20
SW-8	23C4052-04	Water	03/24/23 10:50	03/24/23 13:20
SW-6	23C4052-05	Water	03/24/23 12:15	03/24/23 13:20



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400 Seattle, WA 98103

Project: Surface Water Project Number: [none]

04/13/23 15:16

Reported:

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	# Method	Note
SW-7 (23C4052-01)		Sample Type: V	Water		Sampled	: 03/24/23 09:2	0		
Metals by EPA 200 Series Methods									
Arsenic	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Boron	ND mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Calcium	7.6 mg/L	5.0	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Chromium	ND mg/L	0.010	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Iron	0.11 mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Magnesium	5.8 mg/L	0.60	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Manganese	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AC35879	03/29/23 07:06	03/29/23 13:57	7 1551	EPA 245.1	
Sodium	ND mg/L	6.0	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:27	7 2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AC35639	03/27/23 06:41	03/28/23 08:23	7 2303	EPA 200.7	
Conventional Chemistry Parameters by APHA	A/EPA Methods								
Dissolved Oxygen	11 mg/L	0.10	1	AC35914	03/27/23 16:00	03/27/23 17:00	1551	SM4500-O G	T-14
рН	6.53 pH Units	1.00	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	100 umhos/cm	10	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM2510B	
Total Alkalinity as CaCO3	45 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AC35744	03/28/23 13:15	03/29/23 11:1:	5 1551	SM2540D	
Turbidity	3.0 NTU	1.0	1	AC33823	03/24/23 14:00	03/24/23 16:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	45 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hardness, Total	43 mg/L	1	1	AC35639	03/27/23 06:41	03/28/23 08:2	7 2303	SM2340B	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Reported: 04/13/23 15:16 Project Number: [none]

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP# Method	Note
SW-7 (23C4052-01)		Sample Type: V	Water		Sample	1: 03/24/23 09:2	20	
Anions by EPA Method 300.0								
Sulfate as SO4	3.7 mg/L	0.50	1	AC35553	03/24/23 14:01	03/24/23 17:4	6 2303 EPA 300.0	
Microbiological Parameters by APHA Standar	d Methods							
Total Coliforms	260 MPN/100mL	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:1	5 2303 SM9223B	
E. Coli	1.0 MPN/100mL	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:1	5 2303 SM9223B	
SW-9 (23C4052-02)		Sample Type: V	Water		Sample	1: 03/24/23 09:5	50	
Metals by EPA 200 Series Methods								
Arsenic	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Boron	ND mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Calcium	6.5 mg/L	5.0	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Chromium	ND mg/L	0.010	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Copper	ND mg/L	0.050	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Iron	0.12 mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Lead	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Magnesium	3.9 mg/L	0.60	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Manganese	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Mercury	ND ug/L	0.20	1	AC35879	03/29/23 07:06	03/29/23 14:0	7 1551 EPA 245.1	
Sodium	ND mg/L	6.0	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Vanadium	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	
Zinc	ND mg/L	0.30	1	AC35639	03/27/23 06:41	03/28/23 08:3	0 2303 EPA 200.7	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Seattle, WA 98103 Project Number: [none]

Reported: 04/13/23 15:16

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-9 (23C4052-02)		Sample Type: V	Vater	•	Sampled	1: 03/24/23 09:5	0		
Conventional Chemistry Parameters by APHA/I	EPA Methods				_				
Dissolved Oxygen	11 mg/L	0.10	1	AC35914	03/27/23 16:00	03/27/23 17:00	1551	SM4500-O G	T-14
рН	6.88 pH Units	1.00	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	81 umhos/cm	10	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM2510B	
Total Alkalinity as CaCO3	37 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Total Suspended Solids	2.0 mg/L	1.0	1	AC35744	03/28/23 13:15	03/29/23 11:15	1551	SM2540D	
Turbidity	2.8 NTU	1.0	1	AC33823	03/24/23 14:00	03/24/23 16:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	37 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hardness, Total	32 mg/L	1	1	AC35639	03/27/23 06:41	03/28/23 08:30	2303	SM2340B	
Anions by EPA Method 300.0									
Sulfate as SO4	2.2 mg/L	0.50	1	AC35553	03/24/23 14:01	03/24/23 17:57	7 2303	EPA 300.0	
Microbiological Parameters by APHA Standard	Methods								
Total Coliforms	340 MPN/100mL	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:15	2303	SM9223B	
E. Coli	2.0 MPN/100mL	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:15	5 2303	SM9223B	
SW-10 (23C4052-03)		Sample Type: V	Vater		Sampled	1: 03/24/23 10:1	5		
Metals by EPA 200 Series Methods									
Arsenic	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Boron	ND mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Calcium	6.6 mg/L	5.0	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Chromium	ND mg/L	0.010	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Iron	0.23 mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Magnesium	4.0 mg/L	0.60	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Manganese	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AC35879	03/29/23 07:06	03/29/23 14:10	1551	EPA 245.1	
Sodium	ND mg/L	6.0	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AC35639	03/27/23 06:41	03/28/23 08:33	3 2303	EPA 200.7	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Reported: Seattle, WA 98103 04/13/23 15:16 Project Number: [none]

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-10 (23C4052-03)		Sample Type:	Water		Sampled	l: 03/24/23 10:1:	5		
Conventional Chemistry Parameters by APH	A/EPA Methods								
Dissolved Oxygen	11 mg/L	0.10	1	AC35914	03/27/23 16:00	03/27/23 17:00	1551	SM4500-O G	T-14
рН	6.89 pH Units	1.00	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	81 umhos/cm	10	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM2510B	
Total Alkalinity as CaCO3	36 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Total Suspended Solids	1.8 mg/L	1.0	1	AC35744	03/28/23 13:15	03/29/23 11:15	1551	SM2540D	
Turbidity	3.2 NTU	1.0	1	AC33823	03/24/23 14:00	03/24/23 16:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	36 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hardness, Total	33 mg/L	1	1	AC35639	03/27/23 06:41	03/28/23 08:33	2303	SM2340B	
Anions by EPA Method 300.0									
Sulfate as SO4	2.2 mg/L	0.50	1	AC35553	03/24/23 14:01	03/24/23 18:09	2303	EPA 300.0	
Microbiological Parameters by APHA Standa	rd Methods								
Total Coliforms	310 MPN/100mL	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:15	2303	SM9223B	
E. Coli	ND MPN/100mL	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:15	2303	SM9223B	
SW-8 (23C4052-04)		Sample Type:	Water		Sampled	1: 03/24/23 10:5	0		
Metals by EPA 200 Series Methods									
Arsenic	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Boron	ND mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Calcium	6.8 mg/L	5.0	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Chromium	ND mg/L	0.010	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Iron	0.11 mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Magnesium	4.2 mg/L	0.60	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Manganese	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AC35879	03/29/23 07:06	03/29/23 14:16	1551	EPA 245.1	
Sodium	ND mg/L	6.0	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	EPA 200.7	



Reported:

04/13/23 15:16

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Seattle, WA 98103 Project Number: [none]

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-8 (23C4052-04)		Sample Type: V	Water		Sampled	1: 03/24/23 10:50	0		
Conventional Chemistry Parameters by APHA/E	EPA Methods				•				
Dissolved Oxygen	11 mg/L	0.10	1	AC35914	03/27/23 16:00	03/27/23 17:00	1551	SM4500-O G	T-14
рН	6.92 pH Units	1.00	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	82 umhos/cm	10	1	AC35344	03/24/23 14:00	03/24/23 16:20	2303	SM2510B	
Total Alkalinity as CaCO3	36 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Total Suspended Solids	5.0 mg/L	1.0	1	AC35744	03/28/23 13:15	03/29/23 11:15	1551	SM2540D	
Turbidity	3.3 NTU	1.0	1	AC33823	03/24/23 14:00	03/24/23 16:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	36 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:00	2303	SM2320B	
Hardness, Total	34 mg/L	1	1	AC35639	03/27/23 06:41	03/28/23 08:36	2303	SM2340B	
Anions by EPA Method 300.0									
Sulfate as SO4	2.2 mg/L	0.50	1	AC35553	03/24/23 14:01	03/24/23 18:34	2303	EPA 300.0	
Microbiological Parameters by APHA Standard	Methods								
Total Coliforms	200 MPN/100mI	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:15	2303	SM9223B	
E. Coli	3.1 MPN/100mI	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:15	2303	SM9223B	
SW-6 (23C4052-05)		Sample Type: V	Water		Sampled	1: 03/24/23 12:1:	5		
Metals by EPA 200 Series Methods					•				
Arsenic	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Boron	ND mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Calcium	7.5 mg/L	5.0	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Chromium	ND mg/L	0.010	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Iron	0.11 mg/L	0.10	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Magnesium	5.9 mg/L	0.60	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Manganese	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AC35879	03/29/23 07:06	03/29/23 14:19	1551	EPA 245.1	
Sodium	ND mg/L	6.0	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AC35639	03/27/23 06:41	03/28/23 08:39	2303	EPA 200.7	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Reported: Seattle, WA 98103 04/13/23 15:16 Project Number: [none]

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (23C4052-05)		Sample Type:	Water		Sampled	1: 03/24/23 12:	15		
Conventional Chemistry Parameters by APHA/I	EPA Methods								
Dissolved Oxygen	11 mg/L	0.10	1	AC35914	03/27/23 16:00	03/27/23 17:0	00 1551 5	SM4500-O G	T-14
рН	6.91 pH Units	1.00	1	AC35344	03/24/23 14:00	03/24/23 16:2	20 2303 5	SM4500-H+ B	T-14
Specific Conductance (EC)	100 umhos/cm	10	1	AC35344	03/24/23 14:00	03/24/23 16:2	20 2303 5	SM2510B	
Total Alkalinity as CaCO3	45 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:0	00 2303 \$	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AC35744	03/28/23 13:15	03/29/23 11:1	5 1551 \$	SM2540D	
Turbidity	2.8 NTU	1.0	1	AC33823	03/24/23 14:00	03/24/23 16:0	00 2303 8	SM2130B	
Bicarbonate Alkalinity as CaCO3	45 mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:0	00 2303 8	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:0	00 2303 8	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AC35802	03/28/23 08:00	03/28/23 12:0	00 2303 8	SM2320B	
Hardness, Total	43 mg/L	1	1	AC35639	03/27/23 06:41	03/28/23 08:3	9 2303 8	SM2340B	
Anions by EPA Method 300.0									
Sulfate as SO4	3.7 mg/L	0.50	1	AC35553	03/24/23 14:01	03/24/23 18:4	6 2303 I	EPA 300.0	
Microbiological Parameters by APHA Standard	Methods								
Total Coliforms	150 MPN/100mL	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:1	5 2303 8	SM9223B	
E. Coli	ND MPN/100mL	1.0	1	AC35559	03/24/23 14:47	03/25/23 17:1	5 2303 8	SM9223B	



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Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Reported: 04/13/23 15:16 Project Number: [none]

Metals by EPA 200 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
atch AC35639 - NB EPA 200 series										
Blank (AC35639-BLK1)				Prepared: 0	3/27/23 Aı	nalyzed: 03	/28/23			
Arsenic	ND	0.020	mg/L							
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.050	mg/L							
ron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Vanadium	ND	0.020	mg/L							
Zinc	ND	0.30	mg/L							
LCS (AC35639-BS1)				Prepared: 0	3/27/23 At	nalyzed: 03	/28/23			
Arsenic	0.502	0.020	mg/L	0.500		100	85-115			
Boron	0.473	0.10	mg/L	0.500		94.6	85-115			
Calcium	23.8	5.0	mg/L	25.5		93.4	85-115			
Chromium	0.479	0.010	mg/L	0.500		95.9	85-115			
Copper	0.468	0.050	mg/L	0.500		93.5	85-115			
ron	0.497	0.10	mg/L	0.500		99.4	85-115			
Lead	0.463	0.020	mg/L	0.500		92.6	85-115			
Magnesium	24.7	0.60	mg/L	25.5		96.9	85-115			
Manganese	0.489	0.020	mg/L	0.500		97.8	85-115			
Sodium	24.7	6.0	mg/L	25.5		96.7	85-115			
Vanadium	0.495	0.020	mg/L	0.500		99.0	85-115			
Zinc	0.492	0.30	mg/L	0.500		98.3	85-115			
LCS Dup (AC35639-BSD1)				Prepared: 0)3/27/23 Ar	nalyzed: 03	/28/23			
Arsenic	0.519	0.020	mg/L	0.500		104	85-115	3.29	20	
Boron	0.481	0.10	mg/L	0.500		96.1	85-115	1.66	20	
Calcium	24.1	5.0	mg/L	25.5		94.5	85-115	1.22	20	
Chromium	0.486	0.010	mg/L	0.500		97.1	85-115	1.31	20	
Copper	0.475	0.050	mg/L	0.500		94.9	85-115	1.49	20	
ron	0.504	0.10	mg/L	0.500		101	85-115	1.30	20	
Lead	0.470	0.020	mg/L	0.500		94.0	85-115	1.46	20	



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Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Reported: 04/13/23 15:16 Project Number: [none]

	Metals by	EPA 200 S	eries Me	ethods - Q	uality Co	ontrol				
Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC35639 - NB EPA 200 series										
LCS Dup (AC35639-BSD1)				Prepared: (03/27/23 A	nalyzed: 03	/28/23			
Magnesium	25.0	0.60	mg/L	25.5		98.0	85-115	1.15	20	
Manganese	0.496	0.020	mg/L	0.500		99.1	85-115	1.36	20	
Sodium	25.0	6.0	mg/L	25.5		98.0	85-115	1.29	20	
Vanadium	0.502	0.020	mg/L	0.500		100	85-115	1.30	20	
Zinc	0.499	0.30	mg/L	0.500		99.8	85-115	1.49	20	
Duplicate (AC35639-DUP1)	Sou	rce: 23C405	2-04	Prepared: (03/27/23 A	nalyzed: 03	/28/23			
Arsenic	ND	0.020	mg/L		ND				20	
Boron	ND	0.10	mg/L		ND			0.216	20	
Calcium	6.71	5.0	mg/L		6.76			0.843	20	
Chromium	ND	0.010	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.108	0.10	mg/L		0.112			4.08	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	4.21	0.60	mg/L		4.22			0.221	20	
Manganese	ND	0.020	mg/L		ND				20	
Sodium	ND	6.0	mg/L		ND			0.0316	20	
Vanadium	ND	0.020	mg/L		ND				20	
Zinc	ND	0.30	mg/L		ND				20	
MRL Check (AC35639-MRL1)				Prepared: (03/27/23 A	nalyzed: 03	/28/23			
Arsenic	0.0289	0.020	mg/L	0.0200		144	0-200			
Boron	0.0988	0.10	mg/L	0.100		98.8	0-200			
Calcium	4.80	5.0	mg/L	5.00		96.1	0-200			
Chromium	0.0100	0.010	mg/L	0.0100		100	0-200			
Copper	0.0926	0.050	mg/L	0.100		92.6	0-200			
Iron	0.105	0.10	mg/L	0.100		105	0-200			
Lead	0.0194	0.020	mg/L	0.0200		97.0	0-200			
Magnesium	0.492	0.60	mg/L	0.500		98.4	0-200			
Manganese	0.0204	0.020	mg/L	0.0200		102	0-200			
Sodium	5.00	6.0	mg/L	5.00		100	0-200			
Vanadium	0.0191	0.020	mg/L	0.0200		95.5	0-200			
Zinc	0.365	0.30	mg/L	0.350		104	0-200			



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Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Matrix Spike (AC35879-MS2)

Mercury

Project: Surface Water

Seattle, WA 98103

Reported: 04/13/23 15:16 Project Number: [none]

	Metals by 1	EPA 200 Se	eries M	ethods - Q	uality Co	ntrol				
		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC35639 - NB EPA 200 series										
Matrix Spike (AC35639-MS1)	Sour	ce: 23C405	2-05	Prepared: ()3/27/23 Aı	nalyzed: 03	/28/23			
Arsenic	0.503	0.020	mg/L	0.500	ND	101	70-130			
Boron	0.543	0.10	mg/L	0.500	ND	94.2	70-130			
Chromium	0.473	0.010	mg/L	0.500	ND	94.6	70-130			
Copper	0.467	0.050	mg/L	0.500	ND	93.3	70-130			
Iron	0.610	0.10	mg/L	0.500	0.113	99.3	70-130			
Lead	0.457	0.020	mg/L	0.500	ND	91.4	70-130			
Manganese	0.482	0.020	mg/L	0.500	ND	96.3	70-130			
Sodium	29.6	6.0	mg/L	25.5	ND	101	70-130			
Vanadium	0.490	0.020	mg/L	0.500	ND	97.9	70-130			
Zine	0.489	0.30	mg/L	0.500	ND	97.7	70-130			
Batch AC35879 - Hg Digest										
Blank (AC35879-BLK1)				Prepared &	Analyzed:	03/29/23				
Mercury	ND	0.20	ug/L							
LCS (AC35879-BS1)				Prepared &	Analyzed:	03/29/23				
Mercury	2.51	0.20	ug/L	2.50		100	85-115			
Duplicate (AC35879-DUP1)	Sour	ce: 23C385	2-01	Prepared &	Analyzed:	03/29/23				
Mercury	ND	0.20	ug/L		ND				20	
Matrix Spike (AC35879-MS1)	Sour	ce: 23C385	2-01	Prepared &	Analyzed:	03/29/23				
Mercury	2.59	0.20	ug/L	2.50	ND	104	70-130			

Prepared & Analyzed: 03/29/23

102

70-130

2.50

Source: 23C4052-01

0.20

ug/L

2.56



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Bottle Rock Power

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Project: Surface Water

Seattle, WA 98103 Project Number: [none] Reported:

04/13/23 15:16

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC35879 - Hg Digest										
Matrix Spike Dup (AC35879-MSD1)	Sourc	e: 23C385	2-01	Prepared &	Analyzed:	03/29/23				
Mercury	2.47	0.20	ug/L	2.50	ND	98.8	70-130	4.71	20	



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Bottle Rock Power

Project Manager: M. Moore

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Project: Surface Water

Seattle, WA 98103

Project Number: [none]

Reported: 04/13/23 15:16

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC35344 - NB General Prep										
Duplicate (AC35344-DUP1)	Soui	ce: 23C359	7-01	Prepared &	Analyzed	03/23/23				
Specific Conductance (EC)	371	10	umhos/cm		370			0.270	5	
pH	7.71	1.00	pH Units		7.68			0.390	20	
Batch AC35639 - NB EPA 200 series										
Blank (AC35639-BLK1)				Prepared: ()3/27/23 A	nalyzed: 03	/28/23			
Hardness, Total	ND	1	mg/L							
Duplicate (AC35639-DUP1)	Soui	ce: 23C405	2-04	Prepared: ()3/27/23 A	nalyzed: 03	/28/23			
TT 1	34	1	mg/L		34			0.527	20	
Hardness, Total	34	1								
Batch AC35744 - General Preparation Blank (AC35744-BLK1)	ND	1.0		Prepared: (03/28/23 A	nalyzed: 03	/29/23			
Blank (AC35744 - General Preparation Blank (AC35744-BLK1) Total Suspended Solids	ND	1.0	mg/L	1						
Batch AC35744 - General Preparation Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1)	ND		mg/L	1		nalyzed: 03,		15.9	30	
Batch AC35744 - General Preparation Blank (AC35744-BLK1)	ND Sou i	1.0 rce: 23C407	mg/L 8-01 mg/L	Prepared: (03/28/23 A 68.0		/29/23	15.9	30	
Blank (AC35744 - General Preparation Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids	ND Sou i	1.0 rce: 23C407	mg/L 8-01 mg/L	Prepared: (03/28/23 A 68.0	nalyzed: 03,	/29/23	15.9	30	
Batch AC35744 - General Preparation Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids	ND Soui 58.0 Soui	1.0 rce: 23C407 1.0	mg/L 8-01 mg/L 1-01	Prepared: (03/28/23 A 68.0 03/28/23 A	nalyzed: 03,	/29/23			
Batch AC35744 - General Preparation Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids	ND Soui 58.0 Soui	1.0 rce: 23C407 1.0	mg/L 8-01 mg/L 1-01	Prepared: (03/28/23 A 68.0 03/28/23 A 907	nalyzed: 03,	/29/23			
Batch AC35744 - General Preparation Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids Batch AC35802 - NB General Prep	ND Soui 58.0 Soui	1.0 rce: 23C407 1.0	mg/L 8-01 mg/L 1-01	Prepared: (03/28/23 A 68.0 03/28/23 A 907	nalyzed: 03,	/29/23			
Batch AC35744 - General Preparation Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids Batch AC35802 - NB General Prep Blank (AC35802-BLK1)	ND	1.0 rce: 23C407 1.0 rce: 23C408	mg/L 8-01 mg/L 1-01 mg/L	Prepared: (03/28/23 A 68.0 03/28/23 A 907	nalyzed: 03,	/29/23			
Batch AC35744 - General Preparation Blank (AC35744-BLK1) Total Suspended Solids Duplicate (AC35744-DUP1) Total Suspended Solids Duplicate (AC35744-DUP2) Total Suspended Solids Batch AC35802 - NB General Prep Blank (AC35802-BLK1) Total Alkalinity as CaCO3	ND	1.0 rce: 23C407 1.0 rce: 23C408 1.0	mg/L 8-01 mg/L 1-01 mg/L	Prepared: (03/28/23 A 68.0 03/28/23 A 907	nalyzed: 03,	/29/23			



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Bottle Rock Power

Project Manager: M. Moore

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Project: Surface Water

Seattle, WA 98103

Project Number: [none]

Reported:

04/13/23 15:16

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC35802 - NB General Prep										
LCS (AC35802-BS1)				Prepared &	Analyzed:	03/28/23				
Total Alkalinity as CaCO3	984	5.0	mg/L	1000		98.4	80-120			
Duplicate (AC35802-DUP1)	Sour	rce: 23C405	7-02	Prepared &	: Analyzed:	03/28/23				
Total Alkalinity as CaCO3	181	5.0	mg/L		180			0.277	20	
Bicarbonate Alkalinity as CaCO3	180	5.0	mg/L		180			0.277	20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	



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Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Seattle, WA 98103 04/13/23 15:16 Project Number: [none]

Anions by EPA Method 300.0 - Quality Control

Reporting	Spike	Source	%REC	RPD

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AC35553 - NB General Prep										
Blank (AC35553-BLK1)				Prepared &	Analyzed:	03/24/23				
Sulfate as SO4	ND	0.50	mg/L							
LCS (AC35553-BS1)				Prepared: (03/24/23 A	nalyzed: 03	/27/23			
Sulfate as SO4	8.17	0.50	mg/L	8.00		102	90-110			
Duplicate (AC35553-DUP1)	Sour	ce: 23C405	2-01	Prepared &	Analyzed:	03/24/23				
Sulfate as SO4	3.72	0.50	mg/L		3.73			0.199	20	
Matrix Spike (AC35553-MS1)	Soui	ce: 23C405	2-02	Prepared &	Analyzed:	03/24/23				
Sulfate as SO4	9.85	0.50	mg/L	8.00	2.21	95.5	80-120			
Matrix Spike (AC35553-MS2)	Soui	ce: 23C406	1-01	Prepared &	Analyzed:	03/24/23				
Sulfate as SO4	14.8	0.50	mg/L	8.00	5.88	112	80-120			
Matrix Spike Dup (AC35553-MSD1)	Sour	ce: 23C405	2-02	Prepared &	Analyzed:	03/24/23				
Sulfate as SO4	9.35	0.50	mg/L	8.00	2.21	89.3	80-120	5.17	20	

Reported:



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Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: [none]

Reported:

04/13/23 15:16

Notes and Definitions

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

^{*} ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



707.468.5267 (fax) clientservices@alpha-labs.com

208 Mason Street, Ukiah CA 95482

Corporate Laboratory (1551)

707.468.0401 (phone)

North Bay Laboratory (2303) 737 Southpoint Blvd, Ste D, Petaluma 94954 Bay Area Laboratory (2728) 262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922) 9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center 2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 23C4052 pg of

Report to	In	voice to (if diffe	erent)		100		55-35-45, 51.61	nforn	natio	n					Sign	natur	e be	low a	autho	rizes	s wor	k und	er terr	ms stated on reve	rse side.	7 1
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Sample Identification	Sam	pling	40ml	Plastic	ee	Other	HN03	SS	Other	None Drinking Water	Wastewater	=	Other	Total Number	X.	Turbidity	Hardness,	Cu,	Z	50	Bac-T	As, Cr,	? F	113	-	required		
Sample Identification	Date	Time			S	δĬ	至	포	0 3	ž	3	Š	ō	۲	ALK,	Ţ	표	ϫ	Mn,	Diss.	Ba	As	4	1		Notes / DDW S	Source Co	odes
SW-7	7/24/25	9:20	19	LK	П									6	X	X	X	X	X	X	x	X	X	×				
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WORK ORDER

4.2

Printed: 3/24/2023 1:43:43PM

23C4052

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bottle Rock Power Client Code: NB_BOTTLEROCK Bid: Master Bid Project: Surface Water Project Number: [none] PO #:

Date Due:

04/07/23 15:00 (10 day TAT)

Received By: Logged In By: Alfredo C. Lorenzo Alfredo C. Lorenzo Date Received: 03/24/23 13:20 Date Logged 03/24/23 13:27

Samples Received at: ____deg C

All containers received and intact:

YES

NO

Analysis	Department	Expires	Comments
23C4052-01 SW-7 [Water]	Sampled 03/24/23 09:20)	
Diss Oxygen SM4500	Wet Chem	03/24/23 09:34	
Hg CVAA Total 245.1	Metals	04/21/23 23:59	
Solids, TSS-SM2540D	Wet Chem	03/31/23 23:59	
23C4052-02 SW-9 [Water]	Sampled 03/24/23 09:50)	
Diss Oxygen SM4500	Wet Chem	03/24/23 10:04	
Hg CVAA Total 245.1	Metals	04/21/23 23:59	
Solids, TSS-SM2540D	Wet Chem	03/31/23 23:59	
23C4052-03 SW-10 [Water] Sampled 03/24/23 10:1	15	
Diss Oxygen SM4500	Wet Chem	03/24/23 10:29	
Hg CVAA Total 245.1	Metals	04/21/23 23:59	
Solids, TSS-SM2540D	Wet Chem	03/31/23 23:59	
23C4052-04 SW-8 [Water]	Sampled 03/24/23 10:50)	
Diss Oxygen SM4500	Wet Chem	03/24/23 11:04	•
Hg CVAA Total 245.1	Metals	04/21/23 23:59	
Solids, TSS-SM2540D	Wet Chem	03/31/23 23:59	
23C4052-05 SW-6 [Water]	Sampled 03/24/23 12:15		
Diss Oxygen SM4500	Wet Chem	03/24/23 12:29	
Hg CVAA Total 245.1	Metals	04/21/23 23:59	•
Solids, TSS-SM2540D	Wet Chem	03/31/23 23:59	

Relinquished By

Received By

Date

WORK ORDER

4.2

Printed: 3/24/2023 1:43:43PM

23C4052

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bottle Rock Power Project: Surface Water	Client Code: NB_BOTTLEROCK Project Number: [none]	Bid: Master Bid PO #:
Containers Supplied: 1L Poly - Unpres (F)	• .	
1L Poly - Unpres (F)		
1L Poly - Unpres (F)		
1L Poly - Unpres (F)		
1L Poly - Unpres (F)		
250mL Poly HNO3 (E)		
VOA Vial - Unpres (D)		
VOA Vial - Unpres (D)		
VOA Vial - Unpres (D)		
VOA Vial - Unpres (D)		
VOA Vial - Unpres (D)		

elinquished By Date

SCIBY Date Tin

Received By Date

Received By

3-27-23 15



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

10 July 2023

Bottle Rock Power

Attn: M. Moore

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Groundwater

Work Order: 23F3272

Enclosed are the results of analyses for samples received by the laboratory on 06/23/23 11:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103 Project Number: [none]

Reported: 07/10/23 11:33

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-3	23F3272-01	Water	06/23/23 07:00	06/23/23 11:50
GW-1	23F3272-02	Water	06/23/23 07:40	06/23/23 11:50



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Reported: 07/10/23 11:33 Project Number: [none]

	Resul	t Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (23F3272-01)			Sample Type:	Water		Sampled	1: 06/23/23 07:0	0		
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Boron	0.40	mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Calcium	32	mg/L	5.0	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Iron	0.15	mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Magnesium	9.9	mg/L	0.60	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Manganese	0.044	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Sodium	24	mg/L	6.0	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA M	1ethods									
рН	7.79	pH Units	1.00	1	AF34635	06/27/23 12:05	06/27/23 12:38	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	350	umhos/cm@2	25% 10	1	AF34636	06/29/23 17:00	06/29/23 17:02	2303	SM2510B	
Total Alkalinity as CaCO3	180	mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AF34667	06/27/23 13:30	06/28/23 12:00	1551	SM2540D	
Turbidity	1.0	NTU	1.0	1	AF34468	06/23/23 12:23	06/23/23 13:10	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	180	mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Hardness, Total	121	mg/L	3	1	AF34543	06/26/23 07:04	06/26/23 10:23	2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AF34469	06/23/23 12:29	06/23/23 14:14	2303	EPA 300.0	
Sulfate as SO4	5.4	mg/L	0.50	1	AF34469	06/23/23 12:29	06/23/23 14:14	2303	EPA 300.0	
GW-1 (23F3272-02)			Sample Type:	Water		Sampled	1: 06/23/23 07:4	0		
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	
Calcium	45	mg/L	5.0	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	
Magnesium	15	mg/L	0.60	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	
Manganese	0.11	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	
Sodium	8.5	mg/L	6.0	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AF34543	06/26/23 07:04	06/26/23 10:27	2303	EPA 200.7	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 Project Number: [none]

Reported: 07/10/23 11:33

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP# Method	Note
GW-1 (23F3272-02)		Sample Type: V	Vater		Sampled	1: 06/23/23 07:4	40	
Conventional Chemistry Parameters by APH	A/EPA Methods							
рН	7.79 pH Units	1.00	1	AF34635	06/27/23 12:05	06/27/23 12:3	38 2303 SM4500-H+B	T-14
Specific Conductance (EC)	380 umhos/cm@25	5% 10	1	AF34636	06/29/23 17:00	06/29/23 17:0	02 2303 SM2510B	
Total Alkalinity as CaCO3	180 mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:0	00 2303 SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AF34667	06/27/23 13:30	06/28/23 12:0	00 1551 SM2540D	
Turbidity	ND NTU	1.0	1	AF34468	06/23/23 12:23	06/23/23 13:1	10 2303 SM2130B	
Bicarbonate Alkalinity as CaCO3	180 mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:0	00 2303 SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:0	00 2303 SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:0	00 2303 SM2320B	
Hardness, Total	176 mg/L	3	1	AF34543	06/26/23 07:04	06/26/23 10:2	27 2303 SM2340B	
Anions by EPA Method 300.0								
Nitrate as N	ND mg/L	0.40	1	AF34469	06/23/23 12:29	06/23/23 14:2	26 2303 EPA 300.0	
Sulfate as SO4	18 mg/L	0.50	1	AF34469	06/23/23 12:29	06/23/23 14:2	26 2303 EPA 300.0	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: [none]

Reported: 07/10/23 11:33

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AF34543 - NB EPA 200 series DA										
Blank (AF34543-BLK1)				Prepared &	: Analyzed:	06/26/23				
Arsenic	ND	0.020	mg/L							
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Copper	ND	0.050	mg/L							
Iron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Zinc	ND	0.30	mg/L							
LCS (AF34543-BS1)				Prepared &	: Analyzed:	06/26/23				
Arsenic	0.511	0.020	mg/L	0.500		102	85-115			
Boron	0.493	0.10	mg/L	0.500		98.6	85-115			
Calcium	24.6	5.0	mg/L	25.5		96.6	85-115			
Copper	0.486	0.050	mg/L	0.500		97.2	85-115			
Iron	0.516	0.10	mg/L	0.500		103	85-115			
Lead	0.472	0.020	mg/L	0.500		94.5	85-115			
Magnesium	26.0	0.60	mg/L	25.5		102	85-115			
Manganese	0.506	0.020	mg/L	0.500		101	85-115			
Sodium	25.9	6.0	mg/L	25.5		102	85-115			
Zinc	0.497	0.30	mg/L	0.500		99.4	85-115			
LCS Dup (AF34543-BSD1)				Prepared &	: Analyzed:	06/26/23				
Arsenic	0.515	0.020	mg/L	0.500		103	85-115	0.702	20	
Boron	0.491	0.10	mg/L	0.500		98.3	85-115	0.305	20	
Calcium	24.6	5.0	mg/L	25.5		96.5	85-115	0.142	20	
Copper	0.487	0.050	mg/L	0.500		97.3	85-115	0.144	20	
Iron	0.516	0.10	mg/L	0.500		103	85-115	0.0194	20	
Lead	0.475	0.020	mg/L	0.500		95.0	85-115	0.486	20	
Magnesium	25.9	0.60	mg/L	25.5		102	85-115	0.559	20	
Manganese	0.505	0.020	mg/L	0.500		101	85-115	0.316	20	
Sodium	25.8	6.0	mg/L	25.5		101	85-115	0.586	20	
Zinc	0.498	0.30	mg/L	0.500		99.7	85-115	0.261	20	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: [none]

Reported: 07/10/23 11:33

Metals by EPA 200 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AF34543 - NB EPA 200 series DA										
Duplicate (AF34543-DUP1)	So	urce: 23F3272	2-01	Prepared &	: Analyzed:	06/26/23				
Arsenic	ND	0.020	mg/L		ND				20	
Boron	0.384	0.10	mg/L		0.398			3.43	20	
Calcium	31.1	5.0	mg/L		32.3			3.68	20	
Copper	ND	0.050	mg/L		ND				20	
ron	0.141	0.10	mg/L		0.146			3.35	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	9.57	0.60	mg/L		9.92			3.58	20	
Manganese	0.0425	0.020	mg/L		0.0441			3.70	20	
Sodium	23.1	6.0	mg/L		24.0			3.71	20	
Zinc	ND	0.30	mg/L		ND				20	
MRL Check (AF34543-MRL1)				Prepared &	Analyzed:	06/26/23				
Arsenic	0.0210	0.020	mg/L	0.0200		105	0-200			
Boron	0.104	0.10	mg/L	0.100		104	0-200			
Calcium	4.41	5.0	mg/L	5.00		88.2	0-200			
Copper	0.0860	0.050	mg/L	0.100		86.0	0-200			
ron	0.107	0.10	mg/L	0.100		107	0-200			
ead	0.0198	0.020	mg/L	0.0200		99.0	0-200			
Magnesium	0.418	0.60	mg/L	0.500		83.7	0-200			
Manganese	0.0219	0.020	mg/L	0.0200		110	0-200			
Sodium	5.24	6.0	mg/L	5.00		105	0-200			
Zinc	0.372	0.30	mg/L	0.350		106	0-200			
Matrix Spike (AF34543-MS1)	So	urce: 23F3272	2-02	Prepared &	: Analyzed:	06/26/23				
Arsenic	0.532	0.020	mg/L	0.500	ND	106	70-130			
Boron	0.599	0.10	mg/L	0.500	ND	101	70-130			
Copper	0.501	0.050	mg/L	0.500	ND	100	70-130			
ron	0.554	0.10	mg/L	0.500	ND	111	70-130			
ead	0.474	0.020	mg/L	0.500	ND	94.7	70-130			
Manganese	0.602	0.020	mg/L	0.500	0.109	98.7	70-130			
Sodium	34.8	6.0	mg/L	25.5	8.50	103	70-130			
Zinc	0.499	0.30	mg/L	0.500	ND	99.8	70-130			



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: [none]

Reported: 07/10/23 11:33

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control												
Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag		
Batch AF34468 - NB General Prep												
Blank (AF34468-BLK1)				Prepared & Analyzed: 06/23/23								
Turbidity	ND	1.0	NTU									
Duplicate (AF34468-DUP1)	Sour	rce: 23F327	2-01	Prepared &	z Analyzed:	06/23/23						
Turbidity	1.00	1.0	NTU		1.00			0.00	20			
MRL Check (AF34468-MRL1)				Prepared &	Analyzed:	06/23/23						
Turbidity	0.950	1.0	NTU	1.00		95.0	0-200					
Batch AF34543 - NB EPA 200 series DA												
Blank (AF34543-BLK1)				Prepared &	Analyzed:	06/26/23						
Hardness, Total	ND	3	mg/L									
Duplicate (AF34543-DUP1)	Sou	rce: 23F327	2-01	Prepared &	. Analyzed:	06/26/23						
Hardness, Total	117	3	mg/L		121			3.64	20			
Batch AF34635 - NB General Prep												
Duplicate (AF34635-DUP1)	Sou	rce: 23F327	2-01	Prepared &	Analyzed:	06/27/23						
pH	7.80	1.00	pH Units		7.79			0.128	20			
Batch AF34636 - NB General Prep												
Duplicate (AF34636-DUP1)	Sour	rce: 23F327	2-01	Prepared &	Analyzed:	06/29/23						
Specific Conductance (EC)	349	10m	hos/cm@2:	5°(346			0.863	5			



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: [none]

Reported: 07/10/23 11:33

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Reporting Spike Source %REC

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AF34637 - NB General Prep										
LCS (AF34637-BS1)				Prepared &	& Analyzed:	06/27/23				
Total Alkalinity as CaCO3	996	5.0	mg/L	1000		99.6	80-120			
Duplicate (AF34637-DUP1)	Sour	ce: 23F327	2-01	Prepared &	& Analyzed:	06/27/23				
Total Alkalinity as CaCO3	176	5.0	mg/L		178			0.565	20	
Bicarbonate Alkalinity as CaCO3	176	5.0	mg/L		178			0.565	20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
atch AF34667 - General Preparation										
Blank (AF34667-BLK1)				Prepared:	06/27/23 A	nalyzed: 06	5/28/23			
Total Suspended Solids	ND	1.0	mg/L							
LCS (AF34667-BS1)				Prepared:	06/27/23 A	nalyzed: 06	5/28/23			
Total Suspended Solids	96.8	1.0	mg/L	100		96.8	90-110			
Duplicate (AF34667-DUP1)	Sour	ce: 23F320	8-03	Prepared:	06/27/23 A	nalyzed: 06	5/28/23			
Total Suspended Solids	169	1.0	mg/L		172			1.76	30	



Reported:

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 07/10/23 11:33 Project Number: [none]

Anions by EPA Method 300.0 - Quality Control

		,								
		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AF34469 - NB General Prep										
Blank (AF34469-BLK1)				Prepared &	Analyzed:	: 06/23/23				
Sulfate as SO4	ND	0.50	mg/L							
Nitrate as N	ND	0.40	mg/L							
LCS (AF34469-BS1)				Prepared &	Analyzed:	: 06/23/23				
Sulfate as SO4	7.45	0.50	mg/L	8.00		93.1	90-110			
Nitrate as N	1.67	0.40	mg/L	1.80		92.4	90-110			
Duplicate (AF34469-DUP1)	Sour	ce: 23F327	2-01	Prepared &	Analyzed:	: 06/23/23				
Sulfate as SO4	5.40	0.50	mg/L		5.45			0.882	20	
Nitrate as N	ND	0.40	mg/L		ND			8.99	20	
MRL Check (AF34469-MRL1)				Prepared &	Analyzed:	: 06/23/23				
Nitrate as N	0.305	0.40	mg/L	0.361		84.5	60-140			
Sulfate as SO4	1.39	0.50	mg/L	1.60		86.6	60-140			
Matrix Spike (AF34469-MS1)	Sour	ce: 23F327	2-02	Prepared &	Analyzed:	: 06/23/23				
Sulfate as SO4	23.8	0.50	mg/L	8.00	17.6	77.7	80-120			QM-02
Nitrate as N	1.63	0.40	mg/L	1.80	ND	80.9	80-120			
Matrix Spike Dup (AF34469-MSD1)	Sour	ce: 23F327	2-02	Prepared &	Analyzed:	: 06/23/23				
Sulfate as SO4	23.8	0.50	mg/L	8.00	17.6	77.4	80-120	0.0815	20	QM-02
Nitrate as N	1.63	0.40	mg/L	1.80	ND	80.9	80-120	0.0184	20	



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Reported:

Seattle, WA 98103

Project Number: [none]

07/10/23 11:33

Notes and Definitions

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of

analyte inherent in the sample.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

^{*} ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



WATERS, SEDIMENTS, SOLIDS

Corporate Laboratory (1551)

208 Mason Street, Ukiah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

North Bay Laboratory (2303)

737 Southpoint Blvd, Ste D, Petaluma 94954

Bay Area Laboratory (2728)

262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922)

9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center

2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 23 F 32 7 2 Pg of ____

Report to		Invoice to (if different)						Project Information						Signature below authorizes work under terms stated on reverse side.														
Company: Bottle Rock Power	Contact:						Project ID: Bottle Rock Monitoring-GW									-	Ana	nalysis Request						TA	Т	TEM	P °C	
Attn: 0-1 (/	Email addres	55:																Í	T			Г	П	Stan	dard	Uki		
Jay Hepper / charc lacy	Address:				-	Pr	Project No:						QI 6											10 d	100			
PO Box 326 Cobb, CA 95426						PO Number:							Sample ID												RUS		Liverr	nore
Phone/Fax: 707-529-3799	Phone/Fax:												per S											5 da		Elk G	rove	
Email Address:											ı			ainers									ľ		48 h	ours		
ield Sampler - Printed Name & Signature:		С	ontai	ner	F	Preservative Matrix					of Containe											Oth	er:	Petal	uma			
Richard Lac	-4		Vial	П		ı				Votor	vvaler		П	Number	၁ဓ	& TSS	SO4	& Pb	Zn				mdd		-	days	Carls	bad
Sample Identification	Sam	pling	40ml VOA	ass	Sleeve	2 7	HN03	SO4	Other	None	astewat	Soil	Other	Total Nun	Ph,	Turbidity &	Hardness,	Cu, Fe	Na &	& NO3		Field pH	Field TDS		Preapp requ			
C-111 - 7	Date		4 <u>a</u>	0	S C	H	Î	Ï	ŏ :	ž	5 3	S	ŏ	10	ALK,	Ţ	На	e '	Mu,	As	+	Fie	Fie	Н	Note	s / DDW	Source Co	odes
SW-3	PHARE	7:00	L X			-	Н	4	4	1	+	_	,	3	X	۶	X	X	X	X								
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 $wko_NBtoUK_COC.rpt$

WORK ORDER

4.9

Printed: 6/23/2023 11:56:51AM

23F3272

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bottle Rock Project: Groundwate			NB_BOTTLEROCK [none]	Bid: PO #:	Master Bid
Received By:	07/11/23 15:00 (10 day TAT) Alfredo C. Lorenzo Alfredo C. Lorenzo	Date Receiv			
Samples Received at:	deg C	All containers r	received and intact: YES	NO	
Analysis	Department	Expires	Comments		
23F3272-01 GW-3 [W -Solids, TSS-SM2540D	ater] Sampled 06/23/23 07:00 Wet Chem	06/30/23 23:5	59		
23F3272-02 GW-1 [W Solids, TSS-SM2540D	ater] Sampled 06/23/23 07:40 Wet Chem	06/30/23 23:5	59		
Containers Supplied: 1L Poly - Unpres (C) 1L Poly - Unpres (C)					

Relinquished By

Relinquished By

3 1515

Received By

Date

Tim

D

Tim



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

10 July 2023

Bottle Rock Power

Attn: M. Moore

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Surface Water

Work Order: 23F3273

Enclosed are the results of analyses for samples received by the laboratory on 06/23/23 11:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: [none]

Reported:

07/10/23 12:02

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-7	23F3273-01	Water	06/23/23 07:25	06/23/23 11:50
SW-9	23F3273-02	Water	06/23/23 07:55	06/23/23 11:50
SW-10	23F3273-03	Water	06/23/23 08:15	06/23/23 11:50
SW-8	23F3273-04	Water	06/23/23 08:45	06/23/23 11:50
SW-6	23F3273-05	Water	06/23/23 09:55	06/23/23 11:50



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Seattle, WA 98103 Project Number: [none]

Reported: 07/10/23 12:02

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	# Method	Note
SW-7 (23F3273-01)	;	Sample Type:	Water		Sampled: 06/23/23 07:25				
Metals by EPA 200 Series Methods									
Arsenic	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Boron	0.35 mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Calcium	28 mg/L	5.0	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Chromium	ND mg/L	0.010	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Iron	ND mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Magnesium	12 mg/L	0.60	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Manganese	0.057 mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AF34812	06/29/23 05:52	06/30/23 13:50) 1551	EPA 245.1	
Sodium	19 mg/L	6.0	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	EPA 200.7	
Conventional Chemistry Parameters by API	HA/EPA Methods								
Dissolved Oxygen	9.7 mg/L	0.10	1	AF34556	06/23/23 16:00	06/23/23 17:00) 1551	SM4500-O G	T-14
рН	7.33 pH Units	1.00	1	AF34635	06/27/23 12:05	06/27/23 12:38	3 2303	SM4500-H+ B	T-14
Specific Conductance (EC)	320 umhos/cm@25	5% 10	1	AF34636	06/29/23 17:00	06/29/23 17:02	2 2303	SM2510B	
Total Alkalinity as CaCO3	150 mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AF34667	06/27/23 13:30	06/28/23 12:00) 1551	SM2540D	
Turbidity	ND NTU	1.0	1	AF34468	06/23/23 12:23	06/23/23 13:10	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	150 mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Hardness, Total	118 mg/L	3	1	AF34543	06/26/23 07:04	06/26/23 10:30	2303	SM2340B	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: [none]

Reported: 07/10/23 12:02

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP# Met	hod Note
SW-7 (23F3273-01)		Sample Type: V	Water		Sample			
Anions by EPA Method 300.0								
Sulfate as SO4	14 mg/L	0.50	1	AF34469	06/23/23 12:29	06/23/23 14:3	8 2303 EPA 300	0.0
Microbiological Parameters by APHA Standard	Methods							
Total Coliforms	2000 MPN/100mL	1.0	1	AF34480	06/23/23 15:23	06/24/23 17:5	0 2303 SM9223	В
E. Coli	32 MPN/100mL	1.0	1	AF34480	06/23/23 15:23	06/24/23 17:5	0 2303 SM9223	В
SW-9 (23F3273-02)		Sample Type: V	Water		Sample	1: 06/23/23 07::	55	
Metals by EPA 200 Series Methods								
Arsenic	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7
Boron	ND mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7
Calcium	5.9 mg/L	5.0	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7
Chromium	ND mg/L	0.010	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7
Copper	ND mg/L	0.050	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7
Iron	ND mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7
Lead	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7
Magnesium	3.7 mg/L	0.60	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7
Manganese	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7
Mercury	ND ug/L	0.20	1	AF34812	06/29/23 05:52	06/30/23 13:5	3 1551 EPA 245	.1
Sodium	ND mg/L	6.0	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200	1.7
Vanadium	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200	1.7
Zinc	ND mg/L	0.30	1	AF34543	06/26/23 07:04	06/26/23 10:4	2 2303 EPA 200).7



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Reported: Seattle, WA 98103 07/10/23 12:02 Project Number: [none]

	Result Units	Reporting Limit I	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-9 (23F3273-02)	;	Sample Type: W	Vater		Sampled: 06/23/23 07:55				
Conventional Chemistry Parameters by APH	A/EPA Methods								
Dissolved Oxygen	9.7 mg/L	0.10	1	AF34556	06/23/23 16:00	06/23/23 17:00	1551	SM4500-O G	T-14
рН	7.39 pH Units	1.00	1	AF34635	06/27/23 12:05	06/27/23 12:38	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	88 umhos/cm@25	5% 10	1	AF34636	06/29/23 17:00	06/29/23 17:02	2303	SM2510B	
Total Alkalinity as CaCO3	41 mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AF34667	06/27/23 13:30	06/28/23 12:00	1551	SM2540D	
Turbidity	ND NTU	1.0	1	AF34468	06/23/23 12:23	06/23/23 13:10	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	41 mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Hardness, Total	30 mg/L	3	1	AF34543	06/26/23 07:04	06/26/23 10:42	2303	SM2340B	
Anions by EPA Method 300.0									
Sulfate as SO4	1.7 mg/L	0.50	1	AF34469	06/23/23 12:29	06/23/23 14:50	2303	EPA 300.0	
Microbiological Parameters by APHA Standa	ard Methods								
Total Coliforms	2400 MPN/100mL	1.0	1	AF34480	06/23/23 15:23	06/24/23 17:50	2303	SM9223B	
E. Coli	73 MPN/100mL	1.0	1	AF34480	06/23/23 15:23	06/24/23 17:50	2303	SM9223B	
SW-10 (23F3273-03)	!	Sample Type: W	Vater		Sampled	: 06/23/23 08:1	5		
Metals by EPA 200 Series Methods					_				
Arsenic	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Boron	ND mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Calcium	6.0 mg/L	5.0	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Chromium	ND mg/L	0.010	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Iron	ND mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Magnesium	3.7 mg/L	0.60	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Manganese	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AF34812	06/29/23 05:52	06/30/23 13:55	1551	EPA 245.1	
Sodium	ND mg/L	6.0	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	EPA 200.7	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Reported: Seattle, WA 98103 07/10/23 12:02 Project Number: [none]

	Resul	t Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-10 (23F3273-03)			Sample Type:	Water		Sampled: 06/23/23 08:15				
Conventional Chemistry Parameters by APHA/EPA	Methods									
Dissolved Oxygen	9.7	mg/L	0.10	1	AF34556	06/23/23 16:00	06/23/23 17:00	1551	SM4500-O G	T-14
рН	7.33	pH Units	1.00	1	AF34635	06/27/23 12:05	06/27/23 12:38	3 2303	SM4500-H+ B	T-14
Specific Conductance (EC)	89	umhos/cm@2	25° 10	1	AF34636	06/29/23 17:00	06/29/23 17:02	2303	SM2510B	
Total Alkalinity as CaCO3	43	mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Total Suspended Solids	3.3	mg/L	1.0	1	AF34667	06/27/23 13:30	06/28/23 12:00	1551	SM2540D	
Turbidity	1.2	NTU	1.0	1	AF34468	06/23/23 12:23	06/23/23 13:10	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	43	mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:00	2303	SM2320B	
Hardness, Total	30	mg/L	3	1	AF34543	06/26/23 07:04	06/26/23 10:45	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	1.6	mg/L	0.50	1	AF34469	06/23/23 12:29	06/23/23 15:02	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Met	hods									
Total Coliforms	1600	MPN/100mL	1.0	1	AF34480	06/23/23 15:23	06/24/23 17:50	2303	SM9223B	
E. Coli	110	MPN/100mL	1.0	1	AF34480	06/23/23 15:23	06/24/23 17:50	2303	SM9223B	
SW-8 (23F3273-04)			Sample Type:	Water		Sampled	: 06/23/23 08:4	5		
Metals by EPA 200 Series Methods						•				
Arsenic	ND	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:48	3 2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:48	3 2303	EPA 200.7	
Calcium	5.9	mg/L	5.0	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	
Magnesium	3.7	mg/L	0.60	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AF34812	06/29/23 05:52	06/30/23 13:58	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AF34543	06/26/23 07:04	06/26/23 10:48	2303	EPA 200.7	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Reported: Seattle, WA 98103 07/10/23 12:02 Project Number: [none]

	Result Units	Reporting Limit Dilu	tion Batch	Prepared	Analyzed	ELAP# Method	d Note
SW-8 (23F3273-04)	;	Sample Type: Wate	er	Sampled: 06/23/23 08:45			
Conventional Chemistry Parameters by APHA	VEPA Methods						
Dissolved Oxygen	9.7 mg/L	0.10 1	AF34556	06/23/23 16:00	06/23/23 17:00) 1551 SM4500-O	G T-14
рН	7.32 pH Units	1.00 1	AF34635	06/27/23 12:05	06/27/23 12:38	3 2303 SM4500-H	[+ B T-14
Specific Conductance (EC)	91 umhos/cm@25	5° 10 1	AF34636	06/29/23 17:00	06/29/23 17:02	2 2303 SM2510B	
Total Alkalinity as CaCO3	40 mg/L	5.0 1	AF34637	06/27/23 17:00	06/27/23 18:00	2303 SM2320B	
Total Suspended Solids	ND mg/L	1.0 1	AF34667	06/27/23 13:30	06/28/23 12:00	1551 SM2540D	
Turbidity	ND NTU	1.0 1	AF34468	06/23/23 12:23	06/23/23 13:10	2303 SM2130B	
Bicarbonate Alkalinity as CaCO3	40 mg/L	5.0 1	AF34637	06/27/23 17:00	06/27/23 18:00	2303 SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0 1	AF34637	06/27/23 17:00	06/27/23 18:00	2303 SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0 1	AF34637	06/27/23 17:00	06/27/23 18:00	2303 SM2320B	
Hardness, Total	30 mg/L	3 1	AF34543	06/26/23 07:04	06/26/23 10:48	3 2303 SM2340B	
Anions by EPA Method 300.0							
Sulfate as SO4	1.6 mg/L	0.50 1	AF34469	06/23/23 12:29	06/23/23 15:14	4 2303 EPA 300.0	
Microbiological Parameters by APHA Standar	rd Methods						
Total Coliforms	520 MPN/100mL	1.0 1	AF34480	06/23/23 15:23	06/24/23 17:50	2303 SM9223B	
E. Coli	88 MPN/100mL	1.0 1	AF34480	06/23/23 15:23	06/24/23 17:50	2303 SM9223B	
SW-6 (23F3273-05)	;	Sample Type: Wate	er	Sample	d: 06/23/23 09:5	5	
Metals by EPA 200 Series Methods							
Arsenic	ND mg/L	0.020 1	AF34543	06/26/23 07:04	06/26/23 10:51	1 2303 EPA 200.7	
Boron	ND mg/L	0.10 1	AF34543	06/26/23 07:04	06/26/23 10:51	1 2303 EPA 200.7	
Calcium	6.0 mg/L	5.0 1	AF34543	06/26/23 07:04	06/26/23 10:51	2303 EPA 200.7	
Chromium	ND mg/L	0.010 1	AF34543	06/26/23 07:04	06/26/23 10:51	1 2303 EPA 200.7	
Copper	ND mg/L	0.050 1	AF34543	06/26/23 07:04	06/26/23 10:51	2303 EPA 200.7	
Iron	ND mg/L	0.10 1	AF34543	06/26/23 07:04	06/26/23 10:51	2303 EPA 200.7	
Lead	ND mg/L	0.020 1	AF34543	06/26/23 07:04	06/26/23 10:51	2303 EPA 200.7	
Magnesium	3.7 mg/L	0.60 1	AF34543	06/26/23 07:04	06/26/23 10:51	2303 EPA 200.7	
Manganese	ND mg/L	0.020 1	AF34543	06/26/23 07:04	06/26/23 10:51	2303 EPA 200.7	
Mercury	ND ug/L	0.20 1	AF34812	06/29/23 05:52	06/30/23 14:00) 1551 EPA 245.1	
Sodium	ND mg/L	6.0 1	AF34543	06/26/23 07:04	06/26/23 10:51	1 2303 EPA 200.7	
Vanadium	ND mg/L	0.020 1	AF34543	06/26/23 07:04	06/26/23 10:51	1 2303 EPA 200.7	
Zinc	ND mg/L	0.30 1	AF34543	06/26/23 07:04	06/26/23 10:51	1 2303 EPA 200.7	



Reported:

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Seattle, WA 98103 07/10/23 12:02 Project Number: [none]

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (23F3273-05)		Sample Type:	Water		Sampled: 06/23/23 09:55				
Conventional Chemistry Parameters by APHA/I	EPA Methods								
Dissolved Oxygen	9.6 mg/L	0.10	1	AF34556	06/23/23 16:00	06/23/23 17:0	00 1551 5	SM4500-O G	T-14
рН	7.20 pH Units	1.00	1	AF34635	06/27/23 12:05	06/27/23 12:3	8 2303	SM4500-H+ B	T-14
Specific Conductance (EC)	88 umhos/cm@25	50 10	1	AF34636	06/29/23 17:00	06/29/23 17:0	2 2303	SM2510B	
Total Alkalinity as CaCO3	40 mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:0	00 2303 5	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AF34667	06/27/23 13:30	06/28/23 12:0	0 1551	SM2540D	
Turbidity	ND NTU	1.0	1	AF34468	06/23/23 12:23	06/23/23 13:1	0 2303 5	SM2130B	
Bicarbonate Alkalinity as CaCO3	40 mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:0	00 2303 5	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:0	00 2303 5	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AF34637	06/27/23 17:00	06/27/23 18:0	00 2303 5	SM2320B	
Hardness, Total	30 mg/L	3	1	AF34543	06/26/23 07:04	06/26/23 10:5	1 2303	SM2340B	
Anions by EPA Method 300.0									
Sulfate as SO4	1.6 mg/L	0.50	1	AF34469	06/23/23 12:29	06/23/23 15:2	26 2303 1	EPA 300.0	
Microbiological Parameters by APHA Standard	Methods								
Total Coliforms	980 MPN/100mL	1.0	1	AF34480	06/23/23 15:23	06/24/23 17:5	0 2303	SM9223B	
E. Coli	100 MPN/100mL	1.0	1	AF34480	06/23/23 15:23	06/24/23 17:5	0 2303	SM9223B	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

Project Number: [none]

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Reported: 07/10/23 12:02

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
atch AF34543 - NB EPA 200 series DA										
Blank (AF34543-BLK1)				Prepared &	: Analyzed:	06/26/23				
Arsenic	ND	0.020	mg/L							
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.050	mg/L							
ron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
odium	ND	6.0	mg/L							
Vanadium	ND	0.020	mg/L							
Zinc	ND	0.30	mg/L							
LCS (AF34543-BS1)				Prepared &	: Analyzed:	06/26/23				
Arsenic	0.511	0.020	mg/L	0.500		102	85-115			
Boron	0.493	0.10	mg/L	0.500		98.6	85-115			
Calcium	24.6	5.0	mg/L	25.5		96.6	85-115			
Chromium	0.500	0.010	mg/L	0.500		100	85-115			
Copper	0.486	0.050	mg/L	0.500		97.2	85-115			
ron	0.516	0.10	mg/L	0.500		103	85-115			
Lead	0.472	0.020	mg/L	0.500		94.5	85-115			
Magnesium	26.0	0.60	mg/L	25.5		102	85-115			
Manganese	0.506	0.020	mg/L	0.500		101	85-115			
Sodium	25.9	6.0	mg/L	25.5		102	85-115			
Vanadium	0.497	0.020	mg/L	0.500		99.5	85-115			
Zinc	0.497	0.30	mg/L	0.500		99.4	85-115			
LCS Dup (AF34543-BSD1)				Prepared &	: Analyzed:	06/26/23				
Arsenic	0.515	0.020	mg/L	0.500		103	85-115	0.702	20	
Boron	0.491	0.10	mg/L	0.500		98.3	85-115	0.305	20	
Calcium	24.6	5.0	mg/L	25.5		96.5	85-115	0.142	20	
Chromium	0.499	0.010	mg/L	0.500		99.8	85-115	0.260	20	
Copper	0.487	0.050	mg/L	0.500		97.3	85-115	0.144	20	
ron	0.516	0.10	mg/L	0.500		103	85-115	0.0194	20	
Lead	0.475	0.020	mg/L	0.500		95.0	85-115	0.486	20	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Reported: 07/10/23 12:02 Project Number: [none]

	Metals by	EPA 200 S	eries Mo	ethods - Qu	uality Co	ontrol				
Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AF34543 - NB EPA 200 series DA										
LCS Dup (AF34543-BSD1)				Prepared &	Analyzed:	: 06/26/23				
Magnesium	25.9	0.60	mg/L	25.5		102	85-115	0.559	20	
Manganese	0.505	0.020	mg/L	0.500		101	85-115	0.316	20	
Sodium	25.8	6.0	mg/L	25.5		101	85-115	0.586	20	
Vanadium	0.496	0.020	mg/L	0.500		99.2	85-115	0.262	20	
Zine	0.498	0.30	mg/L	0.500		99.7	85-115	0.261	20	
Duplicate (AF34543-DUP1)	Source: 23F3272-01 Prepared & Analyzed: 06/26/23									
Arsenic	ND	0.020	mg/L		ND				20	
Boron	0.384	0.10	mg/L		0.398			3.43	20	
Calcium	31.1	5.0	mg/L		32.3			3.68	20	
Chromium	ND	0.010	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.141	0.10	mg/L		0.146			3.35	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	9.57	0.60	mg/L		9.92			3.58	20	
Manganese	0.0425	0.020	mg/L		0.0441			3.70	20	
Sodium	23.1	6.0	mg/L		24.0			3.71	20	
Vanadium	ND	0.020	mg/L		ND				20	
Zinc	ND	0.30	mg/L		ND				20	
MRL Check (AF34543-MRL1)				Prepared &	. Analyzed:	: 06/26/23				
Arsenic	0.0210	0.020	mg/L	0.0200		105	0-200			
Boron	0.104	0.10	mg/L	0.100		104	0-200			
Calcium	4.41	5.0	mg/L	5.00		88.2	0-200			
Chromium	0.0102	0.010	mg/L	0.0100		102	0-200			
Copper	0.0860	0.050	mg/L	0.100		86.0	0-200			
Iron	0.107	0.10	mg/L	0.100		107	0-200			
Lead	0.0198	0.020	mg/L	0.0200		99.0	0-200			
Magnesium	0.418	0.60	mg/L	0.500		83.7	0-200			
Manganese	0.0219	0.020	mg/L	0.0200		110	0-200			
Sodium	5.24	6.0	mg/L	5.00		105	0-200			
Vanadium	0.0183	0.020	mg/L	0.0200		91.5	0-200			
Zinc	0.372	0.30	mg/L	0.350		106	0-200			



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

Project Number: [none]

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Reported: 07/10/23 12:02

Metals by E	PA 200 S	Series Meth	ods - Oua	ality Control
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	-									
Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AF34543 - NB EPA 200 series DA										
Matrix Spike (AF34543-MS1)	Sou	rce: 23F3272	2-02	Prepared &	ե Analyzed:	06/26/23				
Arsenic	0.532	0.020	mg/L	0.500	ND	106	70-130			
Boron	0.599	0.10	mg/L	0.500	ND	101	70-130			
Chromium	0.498	0.010	mg/L	0.500	ND	99.7	70-130			
Copper	0.501	0.050	mg/L	0.500	ND	100	70-130			
Iron	0.554	0.10	mg/L	0.500	ND	111	70-130			
Lead	0.474	0.020	mg/L	0.500	ND	94.7	70-130			
Manganese	0.602	0.020	mg/L	0.500	0.109	98.7	70-130			
Sodium	34.8	6.0	mg/L	25.5	8.50	103	70-130			
Vanadium	0.501	0.020	mg/L	0.500	ND	100	70-130			
Zine	0.499	0.30	mg/L	0.500	ND	99.8	70-130			
Batch AF34812 - Hg Digest										
Blank (AF34812-BLK1)				Prepared: (06/29/23 A	nalyzed: 06	/30/23			
Mercury	ND	0.20	ug/L	_		-				
LCS (AF34812-BS1)				Prepared: (06/29/23 A	nalyzed: 06	/30/23			
Mercury	2.37	0.20	ug/L	2.50		95.0	85-115			
Duplicate (AF34812-DUP1)	Sou	rce: 23F3648	3-01	Prepared: (06/29/23 A	nalyzed: 06	/30/23			
Mercury	ND	0.20	ug/L		ND				20	
Matrix Spike (AF34812-MS1)	Sou	rce: 23F3648	3-01	Prepared: (06/29/23 A	nalyzed: 06	/30/23			
Mercury	2.43	0.20	ug/L	2.50	ND	97.2	70-130			
Matrix Spike (AF34812-MS2)	Sou	rce: 23F3648	3-02	Prepared: (06/29/23 A	nalyzed: 06	/30/23			
Mercury	2.43	0.20	ug/L	2.50	ND	97.1	70-130			



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

Project Number: [none]

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Reported: 07/10/23 12:02

Meta	als by	EPA 200	Series	Methods	- Quality	Control
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	•				•					
		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AF34812 - Hg Digest										
Matrix Spike Dup (AF34812-MSD1)	Sour	ce: 23F364	B- 0 1	Prepared: (06/29/23 A	nalyzed: 06	5/30/23			
Mercury	2.43	0.20	ug/L	2.50	ND	97.1	70-130	0.123	20	



email: clientservices@alpha-labs.com

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Seattle, WA 98103

Turbidity

Project Number: [none]

Reported: 07/10/23 12:02

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AF34468 - NB General Prep										
Blank (AF34468-BLK1)				Prepared &	k Analyzed:	06/23/23				
Turbidity	ND	1.0	NTU							

Duplicate (AF34468-DUP1)	Source: 23F3272-01	Prepared & Analyze
·		

Prepared & Analyzed: 06/23/23 1.00

 Turbidity
 1.00
 1.0
 NTU
 1.00

 MRL Check (AF34468-MRL1)
 Prepared & Analyzed: 06/23/23

0.950 1.0 NTU 1.00 95.0 0-200

Batch AF34543 - NB EPA 200 series DA

Blank (AF34543-BLK1)				Prepared & Analyzed: 06/26/23
Hardness, Total	ND	3	mg/L	

Duplicate (AF34543-DUP1)	Source	: 23F3272-0	01	Prepared & Analyzed: 06/26/23			
Hardness, Total	117	3	mg/L	121	3.64	20	

Batch AF34556 - General Preparation

Duplicate (AF34556-DUP1)	Source: 23F3273-02		Prepared & Analyzed: 06/23/23				
Dissolved Oxygen	9.72	0.10 n	mg/L	9.73	0.103	20	T-14

Batch AF34635 - NB General Prep

Duplicate (AF34635-DUP1)			Prepared & Analyzed: 06/27/23		
pH	7.80	1.00 pH Units	7.79	0.128	20



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: [none]

Reported: 07/10/23 12:02

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control										
		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AF34636 - NB General Prep										
Duplicate (AF34636-DUP1)	Sour	ce: 23F3272	2-01	Prepared &	Analyzed:	06/29/23				
Specific Conductance (EC)	349	10m	hos/cm@2:	5°(346			0.863	5	
Batch AF34637 - NB General Prep										
LCS (AF34637-BS1)				Prepared &	Analyzed:	06/27/23				
Total Alkalinity as CaCO3	996	5.0	mg/L	1000		99.6	80-120			
Duplicate (AF34637-DUP1)	Sour	Source: 23F3272-01 Pro		Prepared &	Analyzed:	06/27/23				
Total Alkalinity as CaCO3	176	5.0	mg/L		178			0.565	20	
Bicarbonate Alkalinity as CaCO3	176	5.0	mg/L		178			0.565	20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Batch AF34667 - General Preparation										
Blank (AF34667-BLK1)				Prepared: (06/27/23 A	nalyzed: 06	5/28/23			
Total Suspended Solids	ND	1.0	mg/L							
LCS (AF34667-BS1)				Prepared: (06/27/23 A	nalyzed: 06	5/28/23			
Total Suspended Solids	96.8	1.0	mg/L	100		96.8	90-110			
Duplicate (AF34667-DUP1)	Sour	ce: 23F3208	3-03	Prepared: (06/27/23 A	nalyzed: 06	5/28/23			
Total Suspended Solids	169	1.0	mg/L		172			1.76	30	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103 Project Number: [none] Reported:

07/10/23 12:02

Anions by EPA Method 300.0 -	Quality Control
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		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AF34469 - NB General Prep										
Blank (AF34469-BLK1)				Prepared &	Analyzed:	06/23/23				
Sulfate as SO4	ND	0.50	mg/L							
LCS (AF34469-BS1)				Prepared & Analyzed: 06/23/23						
Sulfate as SO4	7.45	0.50	mg/L	8.00		93.1	90-110			
Duplicate (AF34469-DUP1)	Sour	ce: 23F3272	2-01	Prepared &	Prepared & Analyzed: 06/23/23					
Sulfate as SO4	5.40	0.50	mg/L		5.45			0.882	20	
MRL Check (AF34469-MRL1)				Prepared &	Analyzed:	06/23/23				
Sulfate as SO4	1.39	0.50	mg/L	1.60		86.6	60-140			
Matrix Spike (AF34469-MS1)	Sour	ce: 23F3272	2-02	Prepared &	k Analyzed:	06/23/23				
Sulfate as SO4	23.8	0.50	mg/L	8.00	17.6	77.7	80-120			QM-02
Matrix Spike Dup (AF34469-MSD1)	Sour	ce: 23F327	2-02	Prepared &	Analyzed:	06/23/23				
Sulfate as SO4	23.8	0.50	mg/L	8.00	17.6	77.4	80-120	0.0815	20	QM-02



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Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Reported: 07/10/23 12:02

Seattle, WA 98103

Project Number: [none]

Notes and Definitions

QM-02

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of

analyte inherent in the sample.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

^{*} ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



Corporate Laboratory (1551)

208 Mason Street, Ukiah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

North Bay Laboratory (2303)

737 Southpoint Blvd, Ste D, Petaluma 94954

Bay Area Laboratory (2728)

262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922)

9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center

2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of	Custody -	Work Orde
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Reports and Invoices delivered by email in PDF format

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Report to		voice to	if dif	feren	it)			Pr	oject	Infe	orma	ation	Ġ.					Sig	natu	re be	low	autho	orizes	work u	nder te	erms stated on reve	erse side.
Company: Bottle Rock Power	Contact:							ect		k Mc	onito	oring	-sw	T					Ana	alys	is F	equ	est			TAT	TEMP °C
Attn: Jay Hepper Richard hacy Address: PO Box 326 Cobb, CA 95426 Phone/Fax: 707-529-3799 Email Address:	Email address: Address: Phone/Fax:						Proj	ect I						+	ers per Sample ID											Standard 10 days RUSH: 5 days 48 hours	Ukiah Livermore Elk Grove
Field Sampler - Printed Name & Signature Richard Lacy Sample Identification	Sam	pling	40ml VOA Vial		ainer	er .		HN03	Other		Drinking Water	Wastewater			Total Number of Containe	K, Ph, ec	Turbidity & TSS	Hardness, SO4	Cu, Fe & Pb	, Na & Zn	s. Oxygen	>1	Cr, V, Hg			Other: days Oreapproval	Petaluma S S Carlsbad
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SW-1	12303	7:25	1	X	4	Ц	1	1	1				-	5	5	X	d	æ	×	8	×	×	×				
SW-9 6	23/23	7.55	1	< ×	4								1	\$	5	X	x	X	x	×	x	X	X				
SW-10 6	23/23	8:15	1	4	4				T				1	SI,	5	X	×	×	V	×	X	×	×				
5W-8 6	12/2	8:48		4	1				T		П		_	_	5	1	>	-	V	V	x	×	×		+		
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WORK ORDER

4.9

Printed: 6/23/2023 12:18:11PM

23F3273

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bottle Rock Power Client Code: NB_BOTTLEROCK Bid: Master Bid Project: Surface Water Project Number: [none] PO #:

Date Due:

07/11/23 15:00 (10 day TAT)

Received By: Logged In By: Luke Andrew Smith Luke Andrew Smith

Date Received: 06/23/23 11:50 Date Logged 06/23/23 11:53

Samples Received at: ______ deg C All containers received and intact: YES NO

Analysis	Department	Expires	Comments
23F3273-01 SW-7 [Water]	Sampled 06/23/23 07:29	5	
Diss Oxygen SM4500	Wet Chem	06/23/23 07:39	
Hg CVAA Total 245.1	Metals	07/21/23 23:59	
Solids, TSS-SM2540D	Wet Chem	06/30/23 23:59	
23F3273-02 SW-9 [Water]	Sampled 06/23/23 07:5	5	
Diss Oxygen SM4500	Wet Chem	06/23/23 08:09	
Hg CVAA Total 245.1	Metals	07/21/23 23:59	
Solids, TSS-SM2540D	Wet Chem	06/30/23 23:59	
23F3273-03 SW-10 [Water	r] Sampled 06/23/23 08:	15	
Diss Oxygen SM4500	Wet Chem	06/23/23 08:29	
Hg CVAA Total 245.1	Metals	07/21/23 23:59	
Solids, TSS-SM2540D	Wet Chem	06/30/23 23:59	
23F3273-04 SW-8 [Water]	Sampled 06/23/23 08:4	5	
Diss Oxygen SM4500	Wet Chem	06/23/23 08:59	
Hg CVAA Total 245.1	Metals	07/21/23 23:59	
Solids, TSS-SM2540D	Wet Chem	06/30/23 23:59	
23F3273-05 SW-6 [Water]	Sampled 06/23/23 09:5	5	
Diss Oxygen SM4500	Wet Chem	06/23/23 10:09	
Hg CVAA Total 245.1	Metals	07/21/23 23:59	
Solids, TSS-SM2540D	Wet Chem	06/30/23 23:59	

Relinquished By



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

06 October 2023

Bottle Rock Power

Attn: M. Moore

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Groundwater

Work Order: 23I3415

Enclosed are the results of analyses for samples received by the laboratory on 09/26/23 11:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Reported:

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - GW

10/06/23 06:04

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-3	23I3415-01	Water	09/26/23 07:00	09/26/23 11:35
GW-1	23I3415-02	Water	09/26/23 07:45	09/26/23 11:35



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - GW

Reported: 10/06/23 06:04

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-3 (23I3415-01)		Sample Type:	Water		Sample	d: 09/26/23 07:0	0		
Metals by EPA 200 Series Methods									
Arsenic	ND mg/L	0.020	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Boron	0.35 mg/L	0.10	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Calcium	28 mg/L	5.0	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Iron	0.44 mg/L	0.10	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Magnesium	8.7 mg/L	0.60	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Manganese	0.044 mg/L	0.020	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Sodium	21 mg/L	6.0	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	EPA 200.7	
Conventional Chemistry Parameters by APH	A/EPA Methods								
рН	7.96 pH Units	1.68	1	AJ33293	10/03/23 10:08	10/03/23 15:40	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	360 umhos/cm@	25% 10	1	AJ33291	10/03/23 10:09	10/04/23 14:58	3 2303	SM2510B	
Total Alkalinity as CaCO3	170 mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AI34728	09/28/23 09:30	09/28/23 16:45	1551	SM2540D	
Turbidity	3.6 NTU	1.0	1	AI34661	09/27/23 09:44	09/27/23 10:37	7 2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	170 mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303	SM2320B	
Hardness, Total	105 mg/L	15	1	AI34639	09/27/23 06:14	09/27/23 13:38	3 2303	SM2340B	
Anions by EPA Method 300.0									
Nitrate as N	ND mg/L	0.40	1	AI34621	09/26/23 15:28	09/26/23 20:09	2303	EPA 300.0	
Sulfate as SO4	6.4 mg/L	0.50	1	AI34621	09/26/23 15:28	09/26/23 20:09	2303	EPA 300.0	
GW-1 (23I3415-02)		Sample Type:	Water		Sample	d: 09/26/23 07:4	5		
Metals by EPA 200 Series Methods					•				
Arsenic	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	
Boron	ND mg/L	0.10	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	
Calcium	40 mg/L	5.0	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	
Iron	ND mg/L	0.10	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	
Magnesium	13 mg/L	0.60	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	
Manganese	0.099 mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	
Sodium	7.5 mg/L	6.0	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AI34644	09/27/23 07:43	09/27/23 09:51	2303	EPA 200.7	



Reported:

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - GW 10/06/23 06:04

	Result	t Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-1 (23I3415-02)			Sample Type:	Water		Sampled	l: 09/26/23 07:	4 5		
Conventional Chemistry Parameters by APHA/EPA M	1ethods									
рН	7.99	pH Units	1.68	1	AJ33293	10/03/23 10:08	10/03/23 15:4	0 2303	SM4500-H+ B	T-14
Specific Conductance (EC)	390	umhos/cm@2	5% 10	1	AJ33291	10/03/23 10:09	10/04/23 14:5	8 2303	SM2510B	
Total Alkalinity as CaCO3	180	mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:0	2 2303	SM2320B	
Total Suspended Solids	ND	mg/L	1.0	1	AI34728	09/28/23 09:30	09/28/23 16:4	5 1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AI34661	09/27/23 09:44	09/27/23 10:3	7 2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	180	mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:0	2 2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:0	2 2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:0	2 2303	SM2320B	
Hardness, Total	155	mg/L	15	1	AI34644	09/27/23 07:43	09/27/23 09:5	1 2303	SM2340B	
Anions by EPA Method 300.0										
Nitrate as N	ND	mg/L	0.40	1	AI34621	09/26/23 15:28	09/26/23 20:2	2 2303	EPA 300.0	
Sulfate as SO4	21	mg/L	0.50	1	AI34621	09/26/23 15:28	09/26/23 20:2	2 2303	EPA 300.0	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - GW

Reported: 10/06/23 06:04

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
• • •	Result	Liiiit	Cints	Level	Result	70REC	Limits	КГБ	Limit	1 146
Batch AI34639 - NB EPA 200 series										
Blank (AI34639-BLK1)				Prepared &	Analyzed:	09/27/23				
Arsenic	ND	0.020	mg/L							
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Copper	ND	0.050	mg/L							
Iron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Zinc	ND	0.30	mg/L							
LCS (AI34639-BS1)				Prepared &	Analyzed:	09/27/23				
Arsenic	0.511	0.020	mg/L	0.500	-	102	85-115			
Boron	0.463	0.10	mg/L	0.500		92.6	85-115			
Calcium	21.3	5.0	mg/L	25.5		83.4	85-115			
Copper	0.461	0.050	mg/L	0.500		92.2	85-115			
Iron	0.481	0.10	mg/L	0.500		96.2	85-115			
Lead	0.470	0.020	mg/L	0.500		94.1	85-115			
Magnesium	23.4	0.60	mg/L	25.5		91.7	85-115			
Manganese	0.473	0.020	mg/L	0.500		94.7	85-115			
Sodium	24.0	6.0	mg/L	25.5		94.0	85-115			
Zinc	0.474	0.30	mg/L	0.500		94.8	85-115			
LCS Dup (AI34639-BSD1)				Prepared &	z Analyzed:	09/27/23				
Arsenic	0.546	0.020	mg/L	0.500		109	85-115	6.61	20	
Boron	0.487	0.10	mg/L	0.500		97.4	85-115	5.03	20	
Calcium	22.4	5.0	mg/L	25.5		87.9	85-115	5.19	20	
Copper	0.485	0.050	mg/L	0.500		97.1	85-115	5.16	20	
Iron	0.496	0.10	mg/L	0.500		99.2	85-115	3.03	20	
Lead	0.495	0.020	mg/L	0.500		98.9	85-115	5.04	20	
Magnesium	24.6	0.60	mg/L	25.5		96.6	85-115	5.24	20	
Manganese	0.500	0.020	mg/L	0.500		99.9	85-115	5.41	20	
Sodium	25.2	6.0	mg/L	25.5		98.8	85-115	4.90	20	
Zinc	0.484	0.30	mg/L	0.500		96.7	85-115	2.01	20	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - GW

Reported: 10/06/23 06:04

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AI34639 - NB EPA 200 series										
Duplicate (AI34639-DUP1)	Sour	ce: 23l3415	-01	Prepared &	: Analyzed:	09/27/23				
Arsenic	ND	0.020	mg/L		ND				20	
Boron	0.360	0.10	mg/L		0.353			1.93	20	
Calcium	28.3	5.0	mg/L		27.6			2.64	20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.448	0.10	mg/L		0.440			1.83	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	8.95	0.60	mg/L		8.75			2.32	20	
Manganese	0.0453	0.020	mg/L		0.0443			2.23	20	
Sodium	21.4	6.0	mg/L		20.9			2.30	20	
Zinc	ND	0.30	mg/L		ND				20	
MRL Check (AI34639-MRL1)				Prepared &	: Analyzed:	09/27/23				
Arsenic	0.0208	0.020	mg/L	0.0200		104	0-200			
Boron	0.0845	0.10	mg/L	0.100		84.5	0-200			
Calcium	ND	5.0	mg/L	5.00			0-200			
Copper	0.0905	0.050	mg/L	0.100		90.5	0-200			
ron	0.0852	0.10	mg/L	0.100		85.2	0-200			
Lead	0.0166	0.020	mg/L	0.0200		83.0	0-200			
Magnesium	0.438	0.60	mg/L	0.500		87.5	0-200			
Manganese	0.0176	0.020	mg/L	0.0200		88.0	0-200			
Sodium	4.79	6.0	mg/L	5.00		95.7	0-200			
Zinc	0.305	0.30	mg/L	0.350		87.3	0-200			
Matrix Spike (AI34639-MS1)	Sour	ce: 23l3415	-01	Prepared &	: Analyzed:	09/27/23				
Arsenic	0.516	0.020	mg/L	0.500	ND	103	70-130			
Boron	0.856	0.10	mg/L	0.500	0.353	101	70-130			
Copper	0.470	0.050	mg/L	0.500	ND	94.0	70-130			
fron	0.952	0.10	mg/L	0.500	0.440	103	70-130			
Lead	0.466	0.020	mg/L	0.500	ND	93.2	70-130			
Manganese	0.519	0.020	mg/L	0.500	0.0443	94.9	70-130			
Sodium	45.5	6.0	mg/L	25.5	20.9	96.5	70-130			
Zinc	0.462	0.30	mg/L	0.500	ND	92.3	70-130			



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Seattle, WA 98103

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Project Number: Bottle Rock Monitoring - GW

Reported: 10/06/23 06:04

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AI34644 - NB EPA 200 series DA										
Blank (AI34644-BLK1)				Prepared &	Analyzed:	09/27/23				
Arsenic	ND	0.020	mg/L	•						
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Copper	ND	0.050	mg/L							
Iron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Zinc	ND	0.30	mg/L							
LCS (AI34644-BS1)				Prepared &	: Analyzed:	09/27/23				
Arsenic	0.524	0.020	mg/L	0.500		105	85-115			
Boron	0.484	0.10	mg/L	0.500		96.8	85-115			
Calcium	21.8	5.0	mg/L	25.5		85.4	85-115			
Copper	0.481	0.050	mg/L	0.500		96.2	85-115			
Iron	0.504	0.10	mg/L	0.500		101	85-115			
Lead	0.486	0.020	mg/L	0.500		97.3	85-115			
Magnesium	24.2	0.60	mg/L	25.5		95.0	85-115			
Manganese	0.500	0.020	mg/L	0.500		99.9	85-115			
Sodium	25.0	6.0	mg/L	25.5		97.9	85-115			
Zinc	0.451	0.30	mg/L	0.500		90.2	85-115			
LCS Dup (AI34644-BSD1)				Prepared &	Analyzed:	09/27/23				
Arsenic	0.523	0.020	mg/L	0.500		105	85-115	0.286	20	
Boron	0.483	0.10	mg/L	0.500		96.5	85-115	0.248	20	
Calcium	21.9	5.0	mg/L	25.5		86.0	85-115	0.694	20	
Copper	0.484	0.050	mg/L	0.500		96.7	85-115	0.498	20	
Iron	0.505	0.10	mg/L	0.500		101	85-115	0.317	20	
Lead	0.488	0.020	mg/L	0.500		97.5	85-115	0.267	20	
Magnesium	24.2	0.60	mg/L	25.5		95.1	85-115	0.0776	20	
Manganese	0.500	0.020	mg/L	0.500		100	85-115	0.120	20	
Sodium	25.0	6.0	mg/L	25.5		98.2	85-115	0.367	20	
Zinc	0.453	0.30	mg/L	0.500		90.6	85-115	0.443	20	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Reported: 10/06/23 06:04

Motels by EDA 200 Series Methods Quality Central

Project Number: Bottle Rock Monitoring - GW

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AI34644 - NB EPA 200 series DA										
Duplicate (AI34644-DUP1)	Sou	rce: 23l3414	-05	Prepared &	Analyzed:	09/27/23				
Arsenic	ND	0.020	mg/L		ND			200	20	
Boron	ND	0.10	mg/L		ND			0.695	20	
Calcium	ND	5.0	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
ron	ND	0.10	mg/L		ND			4.09	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	2.30	0.60	mg/L		2.38			3.41	20	
Manganese	ND	0.020	mg/L		ND				20	
Sodium	ND	6.0	mg/L		ND			3.17	20	
Zine	ND	0.30	mg/L		ND				20	
MRL Check (AI34644-MRL1)				Prepared &	Analyzed:	09/27/23				
Arsenic	0.0232	0.020	mg/L	0.0200		116	0-200			
Boron	0.0895	0.10	mg/L	0.100		89.5	0-200			
Calcium	ND	5.0	mg/L	5.00			0-200			
Copper	0.0925	0.050	mg/L	0.100		92.5	0-200			
ron	0.0925	0.10	mg/L	0.100		92.5	0-200			
Lead	0.0189	0.020	mg/L	0.0200		94.5	0-200			
Magnesium	0.450	0.60	mg/L	0.500		90.1	0-200			
Manganese	0.0185	0.020	mg/L	0.0200		92.5	0-200			
Sodium	4.98	6.0	mg/L	5.00		99.7	0-200			
Zinc	0.301	0.30	mg/L	0.350		85.9	0-200			
Matrix Spike (AI34644-MS1)	Sou	rce: 23l3415	-02	Prepared &	Analyzed:	09/27/23				
Arsenic	0.539	0.020	mg/L	0.500	ND	108	70-130			
Boron	0.577	0.10	mg/L	0.500	ND	99.0	70-130			
Copper	0.490	0.050	mg/L	0.500	ND	98.0	70-130			
ron	0.547	0.10	mg/L	0.500	ND	109	70-130			
Lead	0.489	0.020	mg/L	0.500	ND	97.8	70-130			
Manganese	0.595	0.020	mg/L	0.500	0.0990	99.2	70-130			
Sodium	32.5	6.0	mg/L	25.5	7.46	98.0	70-130			
Zinc	0.460	0.30	mg/L	0.500	ND	92.0	70-130			



ND

1.0

mg/L

email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Total Suspended Solids

Project Number: Bottle Rock Monitoring - GW

Reported: 10/06/23 06:04

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AI34639 - NB EPA 200 series										
Blank (AI34639-BLK1)				Prepared &	Analyzed:	09/27/23				
Hardness, Total	ND	15	mg/L							
Duplicate (AI34639-DUP1)	Sour	ce: 23l3415	-01	Prepared &	Analyzed:	09/27/23				
Hardness, Total	108	15	mg/L		105			2.53	20	
Batch AI34644 - NB EPA 200 series DA										
Blank (AI34644-BLK1)				Prepared &	Analyzed:	09/27/23				
Hardness, Total	ND	15	mg/L							
Duplicate (AI34644-DUP1)	Sour	ce: 23l3414	-05	Prepared &	Analyzed:	09/27/23				
Hardness, Total	ND	15	mg/L		ND			6.93	20	
Batch AI34661 - NB General Prep										
Blank (AI34661-BLK1)				Prepared &	: Analyzed:	09/27/23				
Turbidity	ND	1.0	NTU							
Duplicate (AI34661-DUP1)	Sour	ce: 23l3414	-01	Prepared &	: Analyzed:	09/27/23				
Turbidity	ND	1.0	NTU		ND			1.50	20	
MRL Check (AI34661-MRL1)				Prepared &	: Analyzed:	09/27/23				
Turbidity	0.990	1.0	NTU	10.0		9.90	0-200			
Batch AI34728 - General Preparation										
Blank (AI34728-BLK1)				Prepared &	. A malvæadi	00/20/22				



Reported:

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - GW 10/06/23 06:04

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AI34728 - General Preparation										
LCS (AI34728-BS1)				Prepared &	Analyzed:	09/28/23				
Total Suspended Solids	96.6	1.0	mg/L	100		96.6	90-110			
Duplicate (AI34728-DUP1)	Sour	ce: 23l3485	-03	Prepared &	Analyzed:	09/28/23				
Total Suspended Solids	107	1.0	mg/L		107			0.00	30	
Batch AI34800 - NB General Prep										
LCS (AI34800-BS1)				Prepared: (09/28/23 A	nalyzed: 09	/29/23			
Total Alkalinity as CaCO3	994	20	mg/L	1000		99.4	80-120			
Duplicate (AI34800-DUP1)	Sour	ce: 23l3778	-01	Prepared: (09/28/23 A	nalyzed: 09	/29/23			
Total Alkalinity as CaCO3	59.0	20	mg/L		57.7			2.23	20	
Bicarbonate Alkalinity as CaCO3	59.0	20	mg/L		57.7			2.23	20	
Carbonate Alkalinity as CaCO3	ND	20	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	20	mg/L		ND				20	
Batch AJ33291 - NB General Prep										
Duplicate (AJ33291-DUP1)	Sour	ce: 23J0104	I-01	Prepared:	10/03/23 A	nalyzed: 10	/04/23			
Specific Conductance (EC)	765	10m	hos/cm@2:	5°(771			0.781	5	
Batch AJ33293 - NB General Prep										
Duplicate (AJ33293-DUP1)	Sour	ce: 23J0104	I-01	Prepared &	Analyzed:	10/03/23				
pH	7.89	1.68	pH Units		7.90			0.127	20	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater Reported:

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - GW 10/06/23 06:04

		-										
Anions by EPA Method 300.0 - Quality Control												
		Reporting		Spike	Source		%REC		RPD			
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag		
Batch AI34621 - NB General Prep												
Blank (AI34621-BLK1)				Prepared &	k Analyzed:	09/26/23						
Sulfate as SO4	ND	0.50	mg/L									
Nitrate as N	ND	0.40	mg/L									
LCS (AI34621-BS1)				Prepared &	ኔ Analyzed:	09/26/23						
Sulfate as SO4	8.61	0.50	mg/L	8.00		108	90-110					
Nitrate as N	1.90	0.40	mg/L	1.80		105	90-110					
Duplicate (AI34621-DUP1)	Source: 23l3414-02			Prepared &	k Analyzed:	09/26/23						
Nitrate as N	ND	0.40	mg/L		ND			0.338	20			
Sulfate as SO4	1.22	0.50	mg/L		1.22			0.181	20			
MRL Check (AI34621-MRL1)				Prepared &	አ Analyzed:	09/26/23						
Nitrate as N	0.378	0.40	mg/L	0.361		105	60-140					
Sulfate as SO4	1.74	0.50	mg/L	1.60		109	60-140					
Matrix Spike (AI34621-MS1)	Sour	ce: 23l3414	-01	Prepared &	አ Analyzed:	09/26/23						
Nitrate as N	1.92	0.40	mg/L	1.80	ND	107	80-120					
Sulfate as SO4	9.94	0.50	mg/L	8.00	1.21	109	80-120					
Matrix Spike (AI34621-MS2)	Sour	ce: 23l3471	-01	Prepared &	ኔ Analyzed:	09/26/23						
Nitrate as N	0.696	0.40	mg/L	1.80	ND	25.4	80-120			QM-01		
Sulfate as SO4	17.8	0.50	mg/L	8.00	9.72	101	80-120					
Matrix Spike Dup (AI34621-MSD1)	Sour	ce: 23l3414	-01	Prepared &	ኔ Analyzed:	09/26/23						
Nitrate as N	1.92	0.40	mg/L	1.80	ND	106	80-120	0.307	20			
Sulfate as SO4	9.98	0.50	mg/L	8.00	1.21	110	80-120	0.319	20			



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Reported: 10/06/23 06:04

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - GW

Notes and Definitions

QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

^{*} ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



Corporate Laboratory (1551) 208 Mason Street, Ukiah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

North Bay Laboratory (2303) 737 Southpoint Blvd, Ste D, Petaluma 94954 Bay Area Laboratory (2728) 262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922) 9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center 2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Lab No 23 I 34/5 Pg___ of___

Report to	In	Invoice to (if different)					Project Information					Signature below authorizes work under terms stated on reverse side.										rse side.					
Company:	Contact:				11	Project ID:				П	Analysis Request									TAT	TEMP °C						
Bottle Rock Power							В	ottle	Roc	k M	onite	oring	g-G\	N					Alla	iys	5 IVE	ques				IAI	I LIVII O
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PO Box 326															ole												Livermore
Cobb, CA 95426							PO	Num	ber:						Sample ID											RUSH:	
Phone/Fax:	Phone/Fax:													- 1							8 1					5 days	
707-529-3799															per											0	Elk Grove
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The face	T Com	pling	VOA	٥ ,	e e			0	2 7	10	l is	ew		_	Z	Ph,	dit	nes	т,	la	NO3		급	12		required	
Sample Identification			40ml V	Plastic	lee	Other	HC	HN03	Other	S S	Drinking	Wastewater	Soil	Other	Total Number	ALK,	Turbidity	Hardness,	Cu,	Mn, Na &	As &		Field pH	Field TDS	l 1		Source Codes
	Date	Time			S	0	I	T :	I C	Z		15	S	0	-	¥	F	Ĭ	œ'	2	Ä	_	iI.	ίΞ		Notes / DDW	Source Codes
GW-3		7:00		X											3	X	×	1	×	×	×						
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23|3415

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bottle Rock P Project: Groundwater		Client Code: Project Number:	NB_BOTTLEROCK Bottle Rock Monitoring -	Bid: GW PO#:	Master Bid
Received By:	0/10/23 15:00 (10 day TAT) uke Andrew Smith uke Andrew Smith	Date Rec Date Log			tonp 5-0
Samples Received at:	deg C	All container	s received and intact: YES	NO	
Analysis	Department	Expires	Comments		
23 3415-01 GW-3 [Water Solids, TSS-SM2540D	or] Sampled 09/26/23 07:00 Wet Chem	10/03/23 2	3:59		
23 3415-02 GW-1 [Wate Solids, TSS-SM2540D	er] Sampled 09/26/23 07:45 Wet Chem	10/03/23 2	3:59		
Containers Supplied: IL Poly - Unpres (C)					
1L Poly - Unpres (C)					

50

Relinquished By

Date

Received By

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Date

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Data

Tim



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

06 October 2023

Bottle Rock Power

Attn: M. Moore

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Surface Water

Work Order: 23I3414

Enclosed are the results of analyses for samples received by the laboratory on 09/26/23 11:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Seattle, WA 98103

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Project Numb

Project Number: Bottle Rock Monitoring - SW

Reported: 10/06/23 05:59

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-7	23I3414-01	Water	09/26/23 07:26	09/26/23 11:35
SW-9	23I3414-02	Water	09/26/23 08:00	09/26/23 11:35
SW-10	23I3414-03	Water	09/26/23 08:25	09/26/23 11:35
SW-8	23I3414-04	Water	09/26/23 08:55	09/26/23 11:35
SW-6	23I3414-05	Water	09/26/23 10:00	09/26/23 11:35



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

Reported: 10/06/23 05:59

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-7 (23I3414-01)	-	Sample Type:	Water		Sampled	1: 09/26/23 07:2	6		
Metals by EPA 200 Series Methods									
Arsenic	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:3:	5 2303	EPA 200.7	
Boron	ND mg/L	0.10	1	AI34644	09/27/23 07:43	09/27/23 09:3:	5 2303	EPA 200.7	
Calcium	ND mg/L	5.0	1	AI34644	09/27/23 07:43	09/27/23 09:3:	5 2303	EPA 200.7	
Chromium	ND mg/L	0.010	1	AI34644	09/27/23 07:43	09/27/23 09:3:	5 2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AI34644	09/27/23 07:43	09/27/23 09:3:	5 2303	EPA 200.7	
Iron	ND mg/L	0.10	1	AI34644	09/27/23 07:43	09/27/23 09:3	5 2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:3	5 2303	EPA 200.7	
Magnesium	2.5 mg/L	0.60	1	AI34644	09/27/23 07:43	09/27/23 09:33	5 2303	EPA 200.7	
Manganese	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:33	5 2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AI34638	09/27/23 06:11	09/27/23 13:4	1 1551	EPA 245.1	
Sodium	ND mg/L	6.0	1	AI34644	09/27/23 07:43	09/27/23 09:33	5 2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:33	5 2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AI34644	09/27/23 07:43	09/27/23 09:3	5 2303	EPA 200.7	
Conventional Chemistry Parameters by APH	A/EPA Methods								
Dissolved Oxygen	9.1 mg/L	0.10	1	AI34662	09/26/23 16:00	09/26/23 17:00	1551	SM4500-O G	T-14
рН	7.56 pH Units	1.68	1	AJ33293	10/03/23 10:08	10/03/23 15:40	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	96 umhos/cm@25	5% 10	1	AJ33291	10/03/23 10:09	10/04/23 14:58	8 2303	SM2510B	
Total Alkalinity as CaCO3	34 mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AI34728	09/28/23 09:30	09/28/23 16:4:	5 1551	SM2540D	
Turbidity	ND NTU	1.0	1	AI34661	09/27/23 09:44	09/27/23 10:3	7 2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	34 mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303	SM2320B	
Hardness, Total	ND mg/L	15	1	AI34644	09/27/23 07:43	09/27/23 09:3:	5 2303	SM2340B	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

Reported: 10/06/23 05:59

	Result Units	Reporting Limit Dil	ution Batch	Prepared	Analyzed	ELAP# Method	Note
SW-7 (23I3414-01)		Sample Type: Wat	ter	Sample	d: 09/26/23 07:20	5	
Anions by EPA Method 300.0							
Sulfate as SO4	1.2 mg/L	0.50	1 AI34621	09/26/23 15:28	09/26/23 18:51	2303 EPA 300.0	
Microbiological Parameters by APHA Standard	Methods						
Total Coliforms	1000 MPN/100mI	1.0	1 AI34617	09/26/23 15:30	09/27/23 16:20	2303 SM9223B	
E. Coli	27 MPN/100mI	1.0	1 AI34617	09/26/23 15:30	09/27/23 16:20	2303 SM9223B	
SW-9 (23I3414-02)		Sample Type: Wat	ter	Sample	d: 09/26/23 08:00)	
Metals by EPA 200 Series Methods							
Arsenic	ND mg/L	0.020	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Boron	ND mg/L	0.10	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Calcium	ND mg/L	5.0	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Chromium	ND mg/L	0.010	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Copper	ND mg/L	0.050	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Iron	ND mg/L	0.10	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Lead	ND mg/L	0.020	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Magnesium	2.4 mg/L	0.60	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Manganese	ND mg/L	0.020	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Mercury	ND ug/L	0.20	1 AI34638	09/27/23 06:11	09/27/23 13:44	1551 EPA 245.1	
Sodium	ND mg/L	6.0	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Vanadium	ND mg/L	0.020	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	
Zinc	ND mg/L	0.30	1 AI34644	09/27/23 07:43	09/27/23 09:39	2303 EPA 200.7	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - SW

	Result Units	Reporting Limit I	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-9 (23I3414-02)	•	Sample Type: W	Vater		Sampled	: 09/26/23 08:0	0		
Conventional Chemistry Parameters by API	HA/EPA Methods								
Dissolved Oxygen	9.3 mg/L	0.10	1	AI34662	09/26/23 16:00	09/26/23 17:00	1551 \$	SM4500-O G	T-14
pН	7.51 pH Units	1.68	1	AJ33293	10/03/23 10:08	10/03/23 15:40	2303 8	SM4500-H+ B	T-14
Specific Conductance (EC)	78 umhos/cm@25	5% 10	1	AJ33291	10/03/23 10:09	10/04/23 14:58	3 2303 8	SM2510B	
Total Alkalinity as CaCO3	34 mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303 8	SM2320B	
Total Suspended Solids	ND mg/L	1.0	1	AI34728	09/28/23 09:30	09/28/23 16:45	1551 \$	SM2540D	
Turbidity	ND NTU	1.0	1	AI34661	09/27/23 09:44	09/27/23 10:37	2303 8	SM2130B	
Bicarbonate Alkalinity as CaCO3	34 mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303 8	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303 8	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2 2303 8	SM2320B	
Hardness, Total	ND mg/L	15	1	AI34644	09/27/23 07:43	09/27/23 09:39	2303 8	SM2340B	
Anions by EPA Method 300.0									
Sulfate as SO4	1.2 mg/L	0.50	1	AI34621	09/26/23 15:28	09/26/23 19:04	2303 I	EPA 300.0	
Microbiological Parameters by APHA Stand	ard Methods								
Total Coliforms	>2419.6 MPN/100mL	1.0	1	AI34617	09/26/23 15:30	09/27/23 16:20	2303 \$	SM9223B	
E. Coli	23 MPN/100mL	1.0	1	AI34617	09/26/23 15:30	09/27/23 16:20	2303 8	SM9223B	
SW-10 (23I3414-03)	5	Sample Type: W	Vater		Sampled	: 09/26/23 08:2	5		
Metals by EPA 200 Series Methods					•				
Arsenic	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	
Boron	ND mg/L	0.10	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	
Calcium	ND mg/L	5.0	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	
Chromium	ND mg/L	0.010	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 H	EPA 200.7	
Copper	ND mg/L	0.050	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	
Iron	ND mg/L	0.10	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 H	EPA 200.7	
Lead	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	
Magnesium	2.5 mg/L	0.60	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	
Manganese	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	
Mercury	ND ug/L	0.20	1	AI34638	09/27/23 06:11	09/27/23 13:47	' 1551 I	EPA 245.1	
Sodium	ND mg/L	6.0	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	
Zinc	ND mg/L	0.30	1	AI34644	09/27/23 07:43	09/27/23 09:42	2 2303 I	EPA 200.7	



Reported:

10/06/23 05:59

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - SW

	,						
	Result Units F	Reporting Limit Dilu	ution Batch	Prepared	Analyzed	ELAP# Method	Note
SW-10 (23I3414-03)	S	Sample Type: Wat	er	Sample	d: 09/26/23 08:25	5	
Conventional Chemistry Parameters by APH	A/EPA Methods						
Dissolved Oxygen	9.2 mg/L	0.10	1 AI34662	09/26/23 16:00	09/26/23 17:00	1551 SM4500-O G	T-14
pН	7.44 pH Units	1.68	1 AJ33293	10/03/23 10:08	10/03/23 15:40	2303 SM4500-H+B	T-14
Specific Conductance (EC)	77 umhos/cm@25	10	1 AJ33291	10/03/23 10:09	10/04/23 14:58	2303 SM2510B	
Total Alkalinity as CaCO3	45 mg/L	20	1 AI34800	09/28/23 17:24	09/29/23 13:02	2303 SM2320B	
Total Suspended Solids	1.5 mg/L	1.0	1 AI34728	09/28/23 09:30	09/28/23 16:45	1551 SM2540D	
Turbidity	ND NTU	1.0	1 AI34661	09/27/23 09:44	09/27/23 10:37	2303 SM2130B	
Bicarbonate Alkalinity as CaCO3	45 mg/L	20	1 AI34800	09/28/23 17:24	09/29/23 13:02	2303 SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	20	1 AI34800	09/28/23 17:24	09/29/23 13:02	2303 SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	20	1 AI34800	09/28/23 17:24	09/29/23 13:02	2303 SM2320B	
Hardness, Total	ND mg/L	15	1 AI34644	09/27/23 07:43	09/27/23 09:42	2303 SM2340B	
Anions by EPA Method 300.0							
Sulfate as SO4	1.2 mg/L	0.50	1 AI34621	09/26/23 15:28	09/26/23 19:17	2303 EPA 300.0	
Microbiological Parameters by APHA Standa	rd Methods						
Total Coliforms	>2419.6 MPN/100mL	1.0	1 AI34617	09/26/23 15:30	09/27/23 16:20	2303 SM9223B	
E. Coli	19 MPN/100mL	1.0	1 AI34617	09/26/23 15:30	09/27/23 16:20	2303 SM9223B	
SW-8 (23I3414-04)	S	Sample Type: Wat	er	Sample	d: 09/26/23 08:55	5	
Metals by EPA 200 Series Methods							
Arsenic	ND mg/L	0.020	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Boron	ND mg/L	0.10	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Calcium	ND mg/L	5.0	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Chromium	ND mg/L	0.010	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Copper	ND mg/L	0.050	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Iron	ND mg/L	0.10	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Lead	ND mg/L	0.020	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Magnesium	2.4 mg/L	0.60	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Manganese	ND mg/L	0.020	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Mercury	ND ug/L	0.20	1 AI34638	09/27/23 06:11	09/27/23 13:49	1551 EPA 245.1	
Sodium	ND mg/L	6.0	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Vanadium	ND mg/L	0.020	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	
Zinc	ND mg/L	0.30	1 AI34644	09/27/23 07:43	09/27/23 09:45	2303 EPA 200.7	



Reported:

10/06/23 05:59

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - SW

	Resul	t Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-8 (23I3414-04)			Sample Type:	Water		Sampled	1: 09/26/23 08:5	5		
Conventional Chemistry Parameters by APHA/EPA M	Iethods									
Dissolved Oxygen	9.0	mg/L	0.10	1	AI34662	09/26/23 16:00	09/26/23 17:00	1551	SM4500-O G	T-14
рН	7.47	pH Units	1.68	1	AJ33293	10/03/23 10:08	10/03/23 15:40	2303	SM4500-H+ B	T-14
Specific Conductance (EC)	76	umhos/cm@2	25% 10	1	AJ33291	10/03/23 10:09	10/04/23 14:58	2303	SM2510B	
Total Alkalinity as CaCO3	34	mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2303	SM2320B	
Total Suspended Solids	1.7	mg/L	1.0	1	AI34728	09/28/23 09:30	09/28/23 16:45	1551	SM2540D	
Turbidity	ND	NTU	1.0	1	AI34661	09/27/23 09:44	09/27/23 10:37	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	34	mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND	mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND	mg/L	20	1	AI34800	09/28/23 17:24	09/29/23 13:02	2303	SM2320B	
Hardness, Total	ND	mg/L	15	1	AI34644	09/27/23 07:43	09/27/23 09:45	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	1.2	mg/L	0.50	1	AI34621	09/26/23 15:28	09/26/23 19:43	2303	EPA 300.0	
Microbiological Parameters by APHA Standard Metho	ods									
Total Coliforms	1000	MPN/100mL	1.0	1	AI34617	09/26/23 15:30	09/27/23 16:20	2303	SM9223B	
E. Coli	31	MPN/100mL	1.0	1	AI34617	09/26/23 15:30	09/27/23 16:20	2303	SM9223B	
SW-6 (23I3414-05)			Sample Type:	Water		Sampled	1: 09/26/23 10:0	0		
Metals by EPA 200 Series Methods										
Arsenic	ND	mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Boron	ND	mg/L	0.10	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Calcium	ND	mg/L	5.0	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Chromium	ND	mg/L	0.010	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Copper	ND	mg/L	0.050	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Iron	ND	mg/L	0.10	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Lead	ND	mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Magnesium	2.4	mg/L	0.60	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Manganese	ND	mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Mercury	ND	ug/L	0.20	1	AI34638	09/27/23 06:11	09/27/23 13:52	1551	EPA 245.1	
Sodium	ND	mg/L	6.0	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Vanadium	ND	mg/L	0.020	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	
Zinc	ND	mg/L	0.30	1	AI34644	09/27/23 07:43	09/27/23 09:48	2303	EPA 200.7	



Conventional Chemistry Parameters by APHA/EPA Methods

Microbiological Parameters by APHA Standard Methods

SW-6 (23I3414-05)

pН

Turbidity

Hardness, Total

Total Coliforms

E. Coli

Dissolved Oxygen

Specific Conductance (EC) Total Alkalinity as CaCO3

Bicarbonate Alkalinity as CaCO3

Carbonate Alkalinity as CaCO3

Hydroxide Alkalinity as CaCO3

Anions by EPA Method 300.0 Sulfate as SO4

Total Suspended Solids

Alpha Analytical Laboratories, Inc.

email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Batch

AI34662

AJ33293

AJ33291

AI34800

AI34728

AI34661

AI34800

AI34800

AI34800

AI34644

AI34621

Prepared

09/26/23 16:00

10/03/23 10:08

10/03/23 10:09

09/28/23 17:24

09/28/23 09:30

09/27/23 09:44

09/28/23 17:24

09/28/23 17:24

09/28/23 17:24

09/27/23 07:43

09/26/23 15:28

AI34617 09/26/23 15:30

AI34617 09/26/23 15:30

Reporting Limit Dilution

0.10

1.68

10

20

1.0

1.0

20

20

20

15

0.50

1.0

1.0

Sample Type: Water

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Surface Water

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - SW

Result Units

7.48 pH Units

34 mg/L

1.2 mg/L

ND NTU

34 mg/L

 $ND\ mg/L$

ND mg/L

ND mg/L

1.2 mg/L

>2419.6 MPN/100mL

36 MPN/100mL

77 umhos/cm@25°

pared	Analyzed	ELAP#	# Method	Note
Sampled	: 09/26/23 10:00)		
22 16 00	00/26/22 17 00		GN 44500 O C	T 14
23 16:00	09/26/23 17:00	1551	SM4500-O G	T-14
23 10:08	10/03/23 15:40	2303	SM4500-H+ B	T-14
23 10:09	10/04/23 14:58	2303	SM2510B	
23 17:24	09/29/23 13:02	2303	SM2320B	
23 09:30	09/28/23 16:45	1551	SM2540D	
23 09:44	09/27/23 10:37	2303	SM2130B	
23 17:24	09/29/23 13:02	2303	SM2320B	
23 17:24	09/29/23 13:02	2303	SM2320B	
23 17:24	09/29/23 13:02	2303	SM2320B	
23 07:43	09/27/23 09:48	2303	SM2340B	
23 15:28	09/26/23 19:56	2303	EPA 300.0	

09/27/23 16:20 2303 SM9223B

09/27/23 16:20 2303 SM9223B

Reported:

10/06/23 05:59



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

	Metals by	EPA 200 Se	eries Mo	ethods - Q	uality Co	ntrol				
		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AI34638 - Hg Digest										
Blank (AI34638-BLK1)				Prepared &	Analyzed:	09/27/23				
Mercury	ND	0.20	ug/L							
LCS (AI34638-BS1)				Prepared &	z Analyzed:	09/27/23				
Mercury	2.47	0.20	ug/L	2.50		98.7	85-115			
Duplicate (AI34638-DUP1)	Sou	ırce: 23l3234	-01	Prepared &	z Analyzed:	09/27/23				
Mercury	ND	0.20	ug/L	1	ND				20	
Matrix Spike (AI34638-MS1)	Soi	ırce: 23l3234	-01	Prepared &	z Analyzed:	09/27/23				
Mercury	2.48	0.20	ug/L	2.50	ND	99.2	70-130			
N (1724/20 14/20)	0	0010004	00	D 1 0		00/27/22				
Matrix Spike (AI34638-MS2) Mercury	2.43	urce: 23l3234 0.20	- U2 ug/L	Prepared &	ND	97.2	70-130			
Wickery	2.13	0.20	ug/E	2.50	ND	71.2	70-150			
Matrix Spike Dup (AI34638-MSD1)		ırce: 23 3234		Prepared &						
Mercury	2.47	0.20	ug/L	2.50	ND	98.7	70-130	0.485	20	
Batch AI34644 - NB EPA 200 series DA										
Blank (AI34644-BLK1)				Prepared &	Analyzed:	09/27/23				
Arsenic	ND	0.020	mg/L							
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.050	mg/L							
Iron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Vanadium	ND	0.020	mg/L							
Zinc	ND	0.30	mg/L							



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

Reported: 10/06/23 05:59

Metals by EPA 200 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
atch AI34644 - NB EPA 200 series DA										
LCS (AI34644-BS1)				Prepared &	Analyzed:	09/27/23				
Arsenic	0.524	0.020	mg/L	0.500		105	85-115			
Boron	0.484	0.10	mg/L	0.500		96.8	85-115			
Calcium	21.8	5.0	mg/L	25.5		85.4	85-115			
Chromium	0.486	0.010	mg/L	0.500		97.3	85-115			
Copper	0.481	0.050	mg/L	0.500		96.2	85-115			
ron	0.504	0.10	mg/L	0.500		101	85-115			
Lead	0.486	0.020	mg/L	0.500		97.3	85-115			
Magnesium	24.2	0.60	mg/L	25.5		95.0	85-115			
Manganese	0.500	0.020	mg/L	0.500		99.9	85-115			
Sodium	25.0	6.0	mg/L	25.5		97.9	85-115			
Vanadium	0.509	0.020	mg/L	0.500		102	85-115			
Zinc	0.451	0.30	mg/L	0.500		90.2	85-115			
LCS Dup (AI34644-BSD1)				Prepared &	Analyzed:	09/27/23				
Arsenic	0.523	0.020	mg/L	0.500		105	85-115	0.286	20	
Boron	0.483	0.10	mg/L	0.500		96.5	85-115	0.248	20	
Calcium	21.9	5.0	mg/L	25.5		86.0	85-115	0.694	20	
Chromium	0.486	0.010	mg/L	0.500		97.3	85-115	0.0206	20	
Соррег	0.484	0.050	mg/L	0.500		96.7	85-115	0.498	20	
ron	0.505	0.10	mg/L	0.500		101	85-115	0.317	20	
Lead	0.488	0.020	mg/L	0.500		97.5	85-115	0.267	20	
Magnesium	24.2	0.60	mg/L	25.5		95.1	85-115	0.0776	20	
Manganese	0.500	0.020	mg/L	0.500		100	85-115	0.120	20	
Sodium	25.0	6.0	mg/L	25.5		98.2	85-115	0.367	20	
Vanadium	0.508	0.020	mg/L	0.500		102	85-115	0.138	20	
Zinc	0.453	0.30	mg/L	0.500		90.6	85-115	0.443	20	
Duplicate (AI34644-DUP1)	So	urce: 23l3414	-05	Prepared &	Analyzed:	09/27/23				
Arsenic	ND	0.020	mg/L	1	ND			200	20	
Boron	ND	0.10	mg/L		ND			0.695	20	
Calcium	ND	5.0	mg/L		ND				20	
Chromium	ND	0.010	mg/L		ND				20	
Copper	ND	0.050	mg/L		ND				20	
ron	ND	0.10	mg/L		ND			4.09	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	2.30	0.60	mg/L		2.38			3.41	20	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

Reported: 10/06/23 05:59

Metals by EPA 200 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AI34644 - NB EPA 200 series DA										
Duplicate (AI34644-DUP1)	Sour	ce: 23l3414	-05	Prepared &	: Analyzed:	09/27/23				
Manganese	ND	0.020	mg/L		ND				20	
Sodium	ND	6.0	mg/L		ND			3.17	20	
Vanadium	ND	0.020	mg/L		ND				20	
Zinc	ND	0.30	mg/L		ND				20	
MRL Check (AI34644-MRL1)				Prepared &	: Analyzed:	09/27/23				
Arsenic	0.0232	0.020	mg/L	0.0200		116	0-200			
Boron	0.0895	0.10	mg/L	0.100		89.5	0-200			
Calcium	ND	5.0	mg/L	5.00			0-200			
Chromium	0.00970	0.010	mg/L	0.0100		97.0	0-200			
Copper	0.0925	0.050	mg/L	0.100		92.5	0-200			
ron	0.0925	0.10	mg/L	0.100		92.5	0-200			
Lead	0.0189	0.020	mg/L	0.0200		94.5	0-200			
Magnesium	0.450	0.60	mg/L	0.500		90.1	0-200			
Manganese	0.0185	0.020	mg/L	0.0200		92.5	0-200			
Sodium	4.98	6.0	mg/L	5.00		99.7	0-200			
Vanadium	0.0203	0.020	mg/L	0.0200		102	0-200			
Zinc	0.301	0.30	mg/L	0.350		85.9	0-200			
Matrix Spike (AI34644-MS1)	Sour	ce: 23l3415	-02	Prepared &	Analyzed:	09/27/23				
Arsenic	0.539	0.020	mg/L	0.500	ND	108	70-130			
Boron	0.577	0.10	mg/L	0.500	ND	99.0	70-130			
Chromium	0.486	0.010	mg/L	0.500	ND	97.2	70-130			
Copper	0.490	0.050	mg/L	0.500	ND	98.0	70-130			
fron	0.547	0.10	mg/L	0.500	ND	109	70-130			
Lead	0.489	0.020	mg/L	0.500	ND	97.8	70-130			
Manganese	0.595	0.020	mg/L	0.500	0.0990	99.2	70-130			
Sodium	32.5	6.0	mg/L	25.5	7.46	98.0	70-130			
Vanadium	0.512	0.020	mg/L	0.500	ND	102	70-130			
Zine	0.460	0.30	mg/L	0.500	ND	92.0	70-130			



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

		D .:		0.1	a		0/DEC		DDD	
Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
• ``	1100011	Emit	Cinto	Level	resurt	70ICEC	Limits	10.2	2311111	
Batch AI34644 - NB EPA 200 series DA										
Blank (AI34644-BLK1)				Prepared &	Analyzed:	09/27/23				
Hardness, Total	ND	15	mg/L							
Duplicate (AI34644-DUP1)	Sour	ce: 23l3414	-05	Prepared &	Analyzed:	09/27/23				
Hardness, Total	ND	15	mg/L		ND			6.93	20	
Batch AI34661 - NB General Prep										
Blank (AI34661-BLK1)				Prepared &	Analyzed:	09/27/23				
Turbidity	ND	1.0	NTU							
Duplicate (AI34661-DUP1)	Sour	ce: 23l3414	-01	Prepared &	z Analyzed:	09/27/23				
Turbidity	ND	1.0	NTU		ND			1.50	20	
MRL Check (AI34661-MRL1)				Prepared &	Analyzed:	09/27/23				
Turbidity	0.990	1.0	NTU	10.0		9.90	0-200			
Batch AI34662 - General Preparation										
Duplicate (AI34662-DUP1)	Sour	ce: 23l3455	-01	Prepared &	Analyzed:	09/26/23				
Dissolved Oxygen	6.89	0.10	mg/L		6.89			0.00	20	
Batch AI34728 - General Preparation										
Blank (AI34728-BLK1)				Prepared &	Analyzed:	09/28/23				
Total Suspended Solids	ND	1.0	mg/L							



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Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

Conventio	nal Chemistry	Paramete	ers by A	PHA/EPA	Method	s - Qualit	y Contro	l		
Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AI34728 - General Preparation										
LCS (AI34728-BS1)				Prepared &	t Analyzed	1: 09/28/23				
Total Suspended Solids	96.6	1.0	mg/L	100		96.6	90-110			
Duplicate (AI34728-DUP1)	Sourc	ce: 23l3485	-03	Prepared &	Analyzed	1: 09/28/23				
Total Suspended Solids	107	1.0	mg/L		107			0.00	30	
Batch AI34800 - NB General Prep										
LCS (AI34800-BS1)				Prepared: (09/28/23 A	Analyzed: 09	0/29/23			
Total Alkalinity as CaCO3	994	20	mg/L	1000		99.4	80-120			
Duplicate (AI34800-DUP1)	Source	ce: 23l3778	-01	Prepared: (09/28/23 A	Analyzed: 09	9/29/23			
Total Alkalinity as CaCO3	59.0	20	mg/L		57.7			2.23	20	
Bicarbonate Alkalinity as CaCO3	59.0	20	mg/L		57.7			2.23	20	
Carbonate Alkalinity as CaCO3	ND	20	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	20	mg/L		ND				20	
Batch AJ33291 - NB General Prep										
Duplicate (AJ33291-DUP1)	Source	ce: 23J0104	I-01	Prepared:	10/03/23 A	Analyzed: 10	0/04/23			
Specific Conductance (EC)	765	10m	hos/cm@2	5°(771			0.781	5	
Batch AJ33293 - NB General Prep										
Duplicate (AJ33293-DUP1)	Source	ce: 23J0104	I-01	Prepared &	Analyzed	1: 10/03/23				
рН	7.89	1.68	pH Units		7.90			0.127	20	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - SW

Anions b	v EPA	Method	300.0 - (Duality	Control
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		•			•					
		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AI34621 - NB General Prep										
Blank (AI34621-BLK1)				Prepared &	k Analyzed	: 09/26/23				
Sulfate as SO4	ND	0.50	mg/L							
LCS (AI34621-BS1)				Prepared &	k Analyzed	: 09/26/23				
Sulfate as SO4	8.61	0.50	mg/L	8.00		108	90-110			
Duplicate (AI34621-DUP1)	Sour	ce: 23l3414	-02	Prepared &	k Analyzed	: 09/26/23				
Sulfate as SO4	1.22	0.50	mg/L		1.22			0.181	20	
MRL Check (AI34621-MRL1)				Prepared &	k Analyzed	: 09/26/23				
Sulfate as SO4	1.74	0.50	mg/L	1.60		109	60-140			
Matrix Spike (AI34621-MS1)	Sour	ce: 23l3414	- 0 1	Prepared &	k Analyzed	: 09/26/23				
Sulfate as SO4	9.94	0.50	mg/L	8.00	1.21	109	80-120			
Matrix Spike (AI34621-MS2)	Sour	ce: 23l3471	-01	Prepared &	k Analyzed	: 09/26/23				
Sulfate as SO4	17.8	0.50	mg/L	8.00	9.72	101	80-120			
Matrix Spike Dup (AI34621-MSD1)	Sour	ce: 23l3414	-01	Prepared &	k Analyzed	: 09/26/23				
Sulfate as SO4	9.98	0.50	mg/L	8.00	1.21	110	80-120	0.319	20	



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Seattle, WA 98103

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Surface Water

Project Number: Bottle Rock Monitoring - SW

Reported: 10/06/23 05:59

Notes and Definitions

>2419.6 >2419.6

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

^{*} ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



707.468.0401 (phone) 707.468.5267 (fax)

clientservices@alpha-labs.com

208 Mason Street, Ukiah CA 95482

Corporate Laboratory (1551)

North Bay Laboratory (2303) 737 Southpoint Blvd, Ste D, Petaluma 94954 Bay Area Laboratory (2728) 262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922) 9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center 2722 Loker Ave West, Ste A, Carlsbad CA 92010 Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

Report to	In	voice to (i	if diffe	rent)			P	rojec	t Info	orma	ition						Sig	natui	e be	low a	autho	orizes w	ork unde	er terms stat	ed on reve	erse side.	
Company: Bottle Rock Power	Contact:					2000	oject Bottle		k Mo	onito	ring	-sw		I			1	Ana	lysi	s R	equ	iest		T.	AT		IP °C
Attn: Jay Hepper Rich and Joy Address: PO Box 326 Cobb, CA 95426 Phone/Fax: 707-529-3799 Email Address:	Email address: Address: Phone/Fax:	ss:					Num							iners per Sample ID										10 c	SH:	Live	rmore Grove
Field Sampler - Printed Name & Signatur	e:		С	ontai	ner	T	Prese	rvati	ve	F	Mat	rix		Containers					U					1000	her:	-	aluma
Richard Lay	Sam	nling	VOA Vial	S	ve		3	24		king Water	Wastewater			Number of	Ph, ec	idity & TSS	Hardness, SO4	1, Fe & Pb	Va & Zn	Oxygen	_	Cr, V, Hg		Preap	_days	3- Car	Isbad
Sample Identification	Date	Time	40ml V	Glass	Sleev	되	HNO3	HZS.	None	Drinking	Was	Soll	ome :	Total	ALK,	Turbidity	Hard	B, Cu,	Mn, Na	Diss.	Bac-T	As, C			es / DDW	Source	Codes
SW-7	9/26/2	3 7:26	1	41									6	2	X,	×	X	X	X	X	X	X	\perp				
SW-9	9/26/2	8:00	X	41			Ш						16	2	X	X	x	×	X.	x	K	×					
5W-10	9/26/2	8:25	X	CX									16	6	X.	X	X	X	×	X	X	X					
5W-8	9/20/2	8:55	1	X									1	5	K.	X	×	X	X	X	X	X					
SW-6	7/24/2	10.00	X	X									0	5	X	X	X	X	X	×	×	メ					
Relinquished by	-		ш	1	Red	eive	bv	1	+	_	ш	+		Date		_	Time		001	A/ 1A	-14-	O= F	OT Trans	smission	0	Yes () No
Richard Soy	_					5							_	ch	-	133	_			Sy	sten	Numb	er: _	ource Numb			
																			Globa EDF t	Geo	trac	ker E	DF Rep	ort? Sampling (Yes Code	○ No
																			, ave	and c		The state of the s	Wildelije		III.as. capp		

Received By:

WORK ORDER

Printed: 9/26/2023 12:23:25PM

2313414

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bottle Rock Power Client Code: NB_BOTTLEROCK Bid: Master Bid
Project: Surface Water Project Number: Bottle Rock Monitoring - SW PO #:

Date Due: 10/10/23 15:00 (10 day TAT)

Logged In By: Luke Andrew Smith Date Logged 09/26/23 12:07

Date Received:

09/26/23 11:35

Samples Received at: ______deg C All containers received and intact: YES NO

Luke Andrew Smith

Analysis	Department	Expires	Comments
23/3414-01 SW-7 [Water] Sa	ampled 09/26/23 07:26		
Diss Oxygen SM4500	Wet Chem	09/26/23 07:40	
Hg CVAA Total 245.1	Metals	10/24/23 23:59	
Solids, TSS-SM2540D	Wet Chem	10/03/23 23:59	
23 3414-02 SW-9 [Water] Sa	ampled 09/26/23 08:00		
Diss Oxygen SM4500	Wet Chem	09/26/23 08:14	
Hg CVAA Total 245.1	Metals	10/24/23 23:59	
Solids, TSS-SM2540D	Wet Chem	10/03/23 23:59	
23 3414-03 SW-10 [Water] S	Sampled 09/26/23 08:25		
Diss Oxygen SM4500	Wet Chem	09/26/23 08:39	
Hg CVAA Total 245.1	Metals	10/24/23 23:59	
Solids, TSS-SM2540D	Wet Chem	10/03/23 23:59	
23/3414-04 SW-8 [Water] Sa	mpled 09/26/23 08:55		
Diss Oxygen SM4500	Wet Chem	09/26/23 09:09	
Hg CVAA Total 245.1	Metals	10/24/23 23:59	
Solids, TSS-SM2540D	Wet Chem	10/03/23 23:59	
23/3414-05 SW-6 [Water] Sa	impled 09/26/23 10:00		
Diss Oxygen SM4500	Wet Chem	09/26/23 10:14	
Hg CVAA Total 245.1	Metals	10/24/23 23:59	
Solids, TSS-SM2540D	Wet Chem	10/03/23 23:59	

50

Relinquished By Date

9/26/23

Received By

Received By

Date

Tim

Relinquished By

Date

Date

Tim

WORK ORDER

Printed: 9/26/2023 12:23:25PM

23|3414

Alpha Analytical Laboratories North Bay to Ukiah Chain of Custody

Client: Bottle Rock Power	Client Code:	NB_BOTTLEROCK	Bid: Master Bid	
Project: Surface Water	Project Number:	Bottle Rock Monitoring - SW	PO #:	
Containers Supplied:				
lL Poly - Unpres (F)				
1L Poly - Unpres (F)				
1L Poly - Unpres (F)				
1L Poly - Unpres (F)				
1L Poly - Unpres (F)				
250mL Poly HNO3 (E)				
250mL Poly HNO3 (E)				
250mL Poly HNO3 (E)				
250mL Poly HNO3 (E)				
250mL Poly HNO3 (E)				
VOA Vial - Unpres (D)				
VOA Vial - Unpres (D)				
VOA Vial - Unpres (D)				
VOA Vial - Unpres (D)				
VOA Vial - Unpres (D)				

Relinquished By

Date

Received By

Date

Tim

PAUS

Received By

Date

Tim

1530



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

05 January 2024

Bottle Rock Power

Attn: M. Moore

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Groundwater

Work Order: 23L2853

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 13:03. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - GW

Reported: 01/05/24 09:55

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-3	23L2853-01	Water	12/19/23 08:07	12/19/23 13:03
GW-1	23L2853-02	Water	12/19/23 08:20	12/19/23 13:03



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - GW

Reported: 01/05/24 09:55

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP# Me	ethod Note
GW-3 (23L2853-01)		Sample Type:	Water		Sample	d: 12/19/23 08:0	7	
Metals by EPA 200 Series Methods								
Arsenic	ND mg/L	0.020	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Boron	0.40 mg/L	0.10	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Calcium	34 mg/L	5.0	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Copper	ND mg/L	0.050	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Iron	0.40 mg/L	0.10	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Lead	ND mg/L	0.020	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Magnesium	10 mg/L	0.60	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Manganese	0.056 mg/L	0.020	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Sodium	26 mg/L	6.0	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Zinc	ND mg/L	0.30	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 EPA 20	00.7
Conventional Chemistry Parameters by APH	A/EPA Methods							
рН	7.72 pH Units	1.68	1	AL34725	12/22/23 10:52	12/22/23 15:2	7 2303 EPA 90	045C T-14
Specific Conductance (EC)	370 umhos/cm@25	5% 10	1	AL34727	12/22/23 10:54	12/22/23 15:1	9 2303 SM251	0B
Total Alkalinity as CaCO3	180 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SM232	20B
Total Suspended Solids	1.4 mg/L	1.0	1	AL34648	12/22/23 09:15	12/22/23 16:3	0 1551 SM254	10D
Turbidity	2.6 NTU	1.0	1	AL34615	12/20/23 11:57	12/20/23 16:0	0 2303 SM213	30B
Bicarbonate Alkalinity as CaCO3	180 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SM232	20B
Carbonate Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SM232	20B
Hydroxide Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SM232	20B
Hardness, Total	127 mg/L	15	1	AL34564	12/20/23 07:20	12/20/23 09:2	3 2303 SM234	10B
Anions by EPA Method 300.0								
Nitrate as N	ND mg/L	0.40	1	AL34497	12/19/23 13:05	12/19/23 19:1	1 2303 EPA 30	0.00
Sulfate as SO4	5.9 mg/L	0.50	1	AL34497	12/19/23 13:05	12/19/23 19:1	1 2303 EPA 30	0.00
GW-1 (23L2853-02)	_	Sample Type:	Water		Sample	d: 12/19/23 08:2	0	
Metals by EPA 200 Series Methods					p			
Arsenic	ND mg/L	0.020	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7
Boron	ND mg/L	0.10	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7
Calcium	50 mg/L	5.0	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7
Copper	ND mg/L	0.050	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7
Iron	ND mg/L	0.10	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7
Lead	ND mg/L	0.020	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7
Magnesium	16 mg/L	0.60	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7
Manganese	0.11 mg/L	0.020	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7
Sodium	8.3 mg/L	6.0	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7
Zinc	ND mg/L	0.30	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 EPA 20	00.7



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - GW

Reported: 01/05/24 09:55

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
GW-1 (23L2853-02)		Sample Type:	Water		Sampled	l: 12/19/23 08:	20		
Conventional Chemistry Parameters by APHA/EPA	A Methods								
pН	7.62 pH Units	1.68	1	AL34725	12/22/23 10:52	12/22/23 15:2	7 2303 EP	PA 9045C	T-14
Specific Conductance (EC)	420 umhos/cm@2	5% 10	1	AL34727	12/22/23 10:54	12/22/23 15:1	9 2303 SN	M2510B	
Total Alkalinity as CaCO3	170 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SN	M2320B	
Total Suspended Solids	ND mg/L	1.0	1	AL34648	12/22/23 09:15	12/22/23 16:3	0 1551 SN	M2540D	
Turbidity	ND NTU	1.0	1	AL34615	12/20/23 11:57	12/20/23 16:0	0 2303 SN	M2130B	
Bicarbonate Alkalinity as CaCO3	170 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SN	M2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SN	M2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SN	M2320B	
Hardness, Total	190 mg/L	15	1	AL34564	12/20/23 07:20	12/20/23 09:2	6 2303 SN	M2340B	
Anions by EPA Method 300.0									
Nitrate as N	ND mg/L	0.40	1	AL34497	12/19/23 13:05	12/19/23 19:2	4 2303 EP	PA 300.0	
Sulfate as SO4	47 mg/L	1.0	2	AL34497	12/19/23 13:05	12/20/23 11:1	1 2303 EP	PA 300.0	



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Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - GW

Reported: 01/05/24 09:55

Metals by EPA 200 Series Methods - Quality Control

1.1.6	D 1:	Reporting	** **	Spike	Source	0/DEC	%REC	D DD	RPD	EL.
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AL34564 - NB EPA 200 series DA										
Blank (AL34564-BLK1)				Prepared &	Analyzed:	12/20/23				
Arsenic	ND	0.020	mg/L							
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Copper	ND	0.050	mg/L							
ron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Zinc	ND	0.30	mg/L							
LCS (AL34564-BS1)				Prepared &	Analyzed:	12/20/23				
Arsenic	0.511	0.020	mg/L	0.500		102	85-115			
Boron	0.482	0.10	mg/L	0.500		96.4	85-115			
Calcium	24.6	5.0	mg/L	25.5		96.4	85-115			
Copper	0.479	0.050	mg/L	0.500		95.8	85-115			
ron	0.514	0.10	mg/L	0.500		103	85-115			
Lead	0.474	0.020	mg/L	0.500		94.8	85-115			
Magnesium	26.3	0.60	mg/L	25.5		103	85-115			
Manganese	0.496	0.020	mg/L	0.500		99.3	85-115			
Sodium	26.8	6.0	mg/L	25.5		105	85-115			
Zinc	0.488	0.30	mg/L	0.500		97.6	85-115			
LCS Dup (AL34564-BSD1)				Prepared &	Analyzed:	12/20/23				
Arsenic	0.513	0.020	mg/L	0.500	-	103	85-115	0.293	20	
Boron	0.484	0.10	mg/L	0.500		96.7	85-115	0.331	20	
Calcium	24.7	5.0	mg/L	25.5		96.8	85-115	0.427	20	
Copper	0.480	0.050	mg/L	0.500		96.1	85-115	0.271	20	
ron	0.515	0.10	mg/L	0.500		103	85-115	0.175	20	
ead	0.476	0.020	mg/L	0.500		95.2	85-115	0.442	20	
Magnesium	26.5	0.60	mg/L	25.5		104	85-115	0.561	20	
Manganese	0.497	0.020	mg/L	0.500		99.5	85-115	0.221	20	
Sodium	26.7	6.0	mg/L	25.5		105	85-115	0.134	20	
Zinc	0.491	0.30	mg/L	0.500		98.1	85-115	0.531	20	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - GW

Reported: 01/05/24 09:55

Metals by EPA 200 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AL34564 - NB EPA 200 series DA										
Duplicate (AL34564-DUP1)	Sou	rce: 23L2853	3-01	Prepared &	Analyzed:	12/20/23				
Arsenic	ND	0.020	mg/L		ND				20	
Boron	0.408	0.10	mg/L		0.404			1.01	20	
Calcium	33.6	5.0	mg/L		33.6			0.261	20	
Copper	ND	0.050	mg/L		ND				20	
Iron	0.405	0.10	mg/L		0.402			0.744	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	10.5	0.60	mg/L		10.5			0.249	20	
Manganese	0.0560	0.020	mg/L		0.0560			0.00	20	
Sodium	25.6	6.0	mg/L		25.8			0.730	20	
Zinc	ND	0.30	mg/L		ND				20	
MRL Check (AL34564-MRL1)				Prepared &	: Analyzed:	12/20/23				
Arsenic	0.0242	0.020	mg/L	0.0200		121	0-200			
Boron	0.106	0.10	mg/L	0.100		106	0-200			
Calcium	4.72	5.0	mg/L	5.00		94.3	0-200			
Copper	0.0967	0.050	mg/L	0.100		96.7	0-200			
Iron	0.106	0.10	mg/L	0.100		106	0-200			
Lead	0.0206	0.020	mg/L	0.0200		103	0-200			
Magnesium	0.526	0.60	mg/L	0.500		105	0-200			
Manganese	0.0212	0.020	mg/L	0.0200		106	0-200			
Sodium	5.25	6.0	mg/L	5.00		105	0-200			
Zinc	0.364	0.30	mg/L	0.350		104	0-200			
Matrix Spike (AL34564-MS1)	Sou	rce: 23L2853	3-02	Prepared &	Analyzed:	12/20/23				
Arsenic	0.528	0.020	mg/L	0.500	ND	106	70-130			
Boron	0.574	0.10	mg/L	0.500	ND	99.9	70-130			
Calcium	72.6	5.0	mg/L	25.5	49.7	89.6	70-130			
Copper	0.494	0.050	mg/L	0.500	ND	98.8	70-130			
Iron	0.577	0.10	mg/L	0.500	ND	104	70-130			
Lead	0.481	0.020	mg/L	0.500	ND	96.2	70-130			
Magnesium	41.2	0.60	mg/L	25.5	16.1	98.5	70-130			
Manganese	0.596	0.020	mg/L	0.500	0.108	97.5	70-130			
Sodium	34.5	6.0	mg/L	25.5	8.25	103	70-130			
Zinc	0.493	0.30	mg/L	0.500	ND	98.6	70-130			



98.0

1.0

mg/L

100

98.0

90-110

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Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Total Suspended Solids

Project Number: Bottle Rock Monitoring - GW

Reported: 01/05/24 09:55

Convention	al Chemistry	y Paramete	ers by A	PHA/EPA	Methods	s - Qualit	y Contro	l		
Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL34564 - NB EPA 200 series DA										
Blank (AL34564-BLK1)				Prepared &	Analyzed:	12/20/23				
Hardness, Total	ND	15	mg/L	-						
Duplicate (AL34564-DUP1)	Sou	rce: 23L285	3-01	Prepared & Analyzed: 12/20/23						
Hardness, Total	127	15	mg/L		127			0.257	20	
Batch AL34615 - NB General Prep										
Blank (AL34615-BLK1)				Prepared &	Analyzed:	12/20/23				
Turbidity	ND	1.0	NTU	-						
Calibration Check (AL34615-CCV1)				Prepared &	Analyzed:	12/20/23				
Turbidity	9.27	1.0	NTU				0-200			
Duplicate (AL34615-DUP1)	Sou	rce: 23L285	3-01	Prepared &	Analyzed:	12/20/23				
Turbidity	2.50	1.0	NTU		2.64			5.45	20	
MRL Check (AL34615-MRL1)				Prepared &	Analyzed:	12/20/23				
Turbidity	0.820	1.0	NTU	10.0		8.20	0-200			
Batch AL34648 - General Preparation										
Blank (AL34648-BLK1)				Prepared &	Analyzed:	12/22/23				
Total Suspended Solids	ND	1.0	mg/L							
LCS (AL34648-BS1)				Prepared &	Analyzed:	12/22/23				



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - GW

Reported: 01/05/24 09:55

Conventional Chemistry Paramete	rs by APHA/EPA Methods - (Quality Control
---------------------------------	----------------------------	-----------------

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AL34648 - General Preparation										
Duplicate (AL34648-DUP1)	Sou	rce: 23L294	7-02	Prepared &	Analyzed:	12/22/23				
Total Suspended Solids	312	1.0	mg/L		322			3.15	30	
Batch AL34725 - NB General Prep										
Duplicate (AL34725-DUP1)	Sou	rce: 23L285	0-01	Prepared &	Analyzed:	12/22/23				
pH	7.53	1.68	pH Units		7.49			0.533	20	
Batch AL34727 - NB General Prep										
Duplicate (AL34727-DUP1)	Sou	rce: 23L285	0-01	Prepared &	Analyzed:	12/22/23				
Specific Conductance (EC)	105	10m	nhos/cm@25	5°(105			0.285	5	
Batch AL34729 - NB General Prep										
LCS (AL34729-BS1)				Prepared &	Analyzed:	12/22/23				
Total Alkalinity as CaCO3	1070	30	mg/L	1000		107	80-120			
Duplicate (AL34729-DUP1)	Sou	rce: 23L285	0-01	Prepared &	z Analyzed:	12/22/23				
Total Alkalinity as CaCO3	47.4	30	mg/L		48.2			1.67	20	
Bicarbonate Alkalinity as CaCO3	47.4	30	mg/L		48.2			1.67	20	
Carbonate Alkalinity as CaCO3	ND	30	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	30	mg/L		ND				20	



Reported:

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power Project Manager: M. Moore

4010 Stone Way North, Suite 400 Project: Groundwater

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - GW 01/05/24 09:55

Anions by	EPA Method 300.0	- Quality Control
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	11110110	Amons by E1711/10tillou 500.0 Quanty Control								
		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AL34497 - NB General Prep										
Blank (AL34497-BLK1)				Prepared &	Analyzed:	12/19/23				
Nitrate as N	ND	0.40	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
LCS (AL34497-BS1)				Prepared &	Analyzed:	12/19/23				
Nitrate as N	1.85	0.40	mg/L	1.80		102	90-110			
Sulfate as SO4	8.40	0.50	mg/L	8.00		105	90-110			
Duplicate (AL34497-DUP1)	Sour	ce: 23L2828	3-04	Prepared &	z Analyzed:	12/19/23				
Nitrate as N	ND	0.40	mg/L		ND			3.69	20	
Sulfate as SO4	7.39	0.50	mg/L		7.32			0.938	20	
MRL Check (AL34497-MRL1)				Prepared &	Analyzed:	12/19/23				
Nitrate as N	0.365	0.40	mg/L	0.361		101	60-140			
Sulfate as SO4	1.66	0.50	mg/L	1.60		104	60-140			
Matrix Spike (AL34497-MS1)	Sour	ce: 23L2828	3-03	Prepared &	Analyzed:	12/19/23				
Nitrate as N	1.92	0.40	mg/L	1.80	ND	91.1	80-120			
Sulfate as SO4	65.2	0.50	mg/L	8.00	68.5	NR	80-120			QM-02
Matrix Spike (AL34497-MS2)	Sour	ce: 23L2850)-01	Prepared &	Analyzed:	12/19/23				
Nitrate as N	2.11	0.40	mg/L	1.80	ND	102	80-120			
Sulfate as SO4	12.0	0.50	mg/L	8.00	3.51	106	80-120			
Matrix Spike Dup (AL34497-MSD1)	Sour	ce: 23L2828	3-03	Prepared &	z Analyzed:	12/19/23				
Nitrate as N	1.96	0.40	mg/L	1.80	ND	93.1	80-120	1.83	20	
Sulfate as SO4	65.1	0.50	mg/L	8.00	68.5	NR	80-120	0.187	20	QM-02



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Bottle Rock Power

Project Manager: M. Moore

4010 Stone Way North, Suite 400

Project: Groundwater

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - GW

Reported: 01/05/24 09:55

Notes and Definitions

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of

analyte inherent in the sample.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

^{*} ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



Corporate Laboratory (1551) 208 Mason Street, Ukiah CA 95482 707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

North Bay Laboratory (2303)

737 Southpoint Blvd, Ste D, Petaluma 94954

262 Rickenbacker Circle, Livermore CA 94551

Bay Area Laboratory (2728)

Central Valley Laboratory (2922) 9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center 2722 Loker Ave West, Ste A, Carlsbad CA 92010 Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

ab No 23L2853 pg____ of__

Report to	In	voice to (i	if diff	ferer	ıt)			P	rojec	t Inf	form	natio	n					Sig	natu	e be	low a	uthoria	zes	work	k und	ler te	rms stated on reve	rse side.	
Company: Bottle Rock Power	Contact:						Proj		ID: Roc	k M	onit	orin	g-G	w				ļ	Ana	llys	is R	eque	st				TAT	TEMI	P °C
Address: Richard hacy	Email addres	ss:							No:						OI (I				Standard 10 days	Ukia	ah
PO Box 326 Cobb, CA 95426 Phone/Fax:	Phone/Fax:						PO	Nun	nber	:					Sample ID											1	RUSH: 5 days	Livern	nore
707-529-3799 Email Address:			-	-	-										iners per								1				48 hours	Elk G	rove
Field Sampler - Printed Name & Signature Richard Lac	»: •		Vial	Con					ervat	ive	Water		atrix		umber of Containers	J, ec	ty & TSS	ss, SO4	e & Pb	& Zn	NO3			_	DS ppm		Other: days Preapproval	Petal	
Sample Identification	Date	pling	40ml VOA	Plastic	Glass	Other	HCI	HN03	H2S04	None	Drinking	Wastewater	Soil	Other	Total Number	ALK, Ph,	Turbidity	Hardness,	B, Cu, Fe	Mn, Na &	As & N		i	Field pH	Field TDS	ŀ	required Notes / DDW	Source Co	odes
GW-3 GW-1 1	2/19/2	8:07		X							1	1			3	X	X	X	X	X	X		4	4					
GW-1 10	Vial	8.2	2	X							+				3	X	X	X	X	X	×								
											+								. T				1						
											-																		
Relinquished by Rishan Larg						Rece	ved	by			_		_	16	Dat	23	-	Time	_	Stat	e Sy	stem N	Num	ber:			ission?	Yes O	_
																				CA Globa EDF	Geo	track	er E	DF	_	port		Yes Code:) No



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

03 January 2024

Bottle Rock Power

Attn: Richard

4010 Stone Way North, Suite 400

Seattle, WA 98103

RE: Surface Water

Work Order: 23L2850

Enclosed are the results of analyses for samples received by the laboratory on 12/19/23 13:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Stephen F. McWeeney

Project Manager



email: clientservices@alpha-labs.com

Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

Reported: 01/03/24 11:39

Bay Area: 262 Rickenbacker Circle | Livermore, CA 94551 | 925-828-6226 | ELAP# 2728

Central Valley: 9090 Union Park Way Suite 113 | Elk Grove, CA 95624 | 916-686-5190 | ELAP# 2922

North Bay: 737 Southpoint Blvd Unit D | Petaluma, CA 94954 | 707-769-3128 | ELAP# 2303

San Diego: 2722 Loker Avenue West Suite A | Carlsbad, CA 92010 | 760-930-2555 | ELAP# 3055

Los Angeles: 1230 E. 223rd Street Suite 205 | Carson, CA 90745 | 424-267-5032 | ELAP# 3091

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-7	23L2850-01	Water	12/19/23 08:45	12/19/23 13:05
SW-9	23L2850-02	Water	12/19/23 08:55	12/19/23 13:05
SW-10	23L2850-03	Water	12/19/23 09:05	12/19/23 13:05
SW-8	23L2850-04	Water	12/19/23 09:15	12/19/23 13:05
SW-6	23L2850-05	Water	12/19/23 09:50	12/19/23 13:05



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103 Project Number: Bottle Rock Monitoring - SW

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-7 (23L2850-01)		Sample Type:	Water		Sampled	: 12/19/23 08:4	5		
Metals by EPA 200 Series Methods									
Arsenic	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Boron	ND mg/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Calcium	7.4 mg/L	5.0	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Chromium	ND mg/L	0.010	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Iron	1.1 mg/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Magnesium	7.5 mg/L	0.60	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Manganese	0.027 mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AL34996	12/26/23 06:38	12/26/23 13:34	1551	EPA 245.1	
Sodium	ND mg/L	6.0	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	EPA 200.7	
Conventional Chemistry Parameters by API	HA/EPA Methods								
Dissolved Oxygen	10 mg/L	0.10	1	AL35067	12/21/23 17:00	12/21/23 17:00	1551	SM4500-O G	T-14
рН	7.49 pH Units	1.68	1	AL34725	12/22/23 10:52	12/22/23 15:2	7 2303	EPA 9045C	T-14
Specific Conductance (EC)	110 umhos/cm@25	5% 10	1	AL34727	12/22/23 10:54	12/22/23 15:19	2303	SM2510B	
Total Alkalinity as CaCO3	48 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Total Suspended Solids	13 mg/L	1.0	1	AL34648	12/22/23 09:15	12/22/23 16:30	1551	SM2540D	
Turbidity	20 NTU	1.0	1	AL34615	12/20/23 11:57	12/20/23 16:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	48 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Hardness, Total	50 mg/L	15	1	AL34557	12/20/23 06:54	12/20/23 13:18	3 2303	SM2340B	



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Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-7 (23L2850-01)		Sample Type:	Water		Sample	d: 12/19/23 08:	45		
Anions by EPA Method 300.0									
Sulfate as SO4	3.5 mg/L	0.50	1	AL34497	12/19/23 13:05	12/19/23 17:4	11 2303 E	EPA 300.0	
Microbiological Parameters by APHA Standar	d Methods								
Total Coliforms	>2419.6 MPN/100mL	1.0	1	AL34516	12/19/23 15:35	12/20/23 16:2	20 2303 S	M9223B	
E. Coli	550 MPN/100mL	1.0	1	AL34516	12/19/23 15:35	12/20/23 16:2	20 2303 S	M9223B	
SW-9 (23L2850-02)		Sample Type:	Water		Sample	d: 12/19/23 08:	55		
Metals by EPA 200 Series Methods									
Arsenic	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Boron	ND mg/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Calcium	6.6 mg/L	5.0	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Chromium	ND mg/L	0.010	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Copper	ND mg/L	0.050	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Iron	0.89 mg/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Lead	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Magnesium	4.3 mg/L	0.60	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Manganese	0.027 mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Mercury	ND ug/L	0.20	1	AL34996	12/26/23 06:38	12/26/23 13:3	37 1551 E	EPA 245.1	
Sodium	ND mg/L	6.0	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	
Zinc	ND mg/L	0.30	1	AL34557	12/20/23 06:54	12/20/23 13:2	21 2303 E	EPA 200.7	



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Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP# Method	Note
SW-9 (23L2850-02)		Sample Type: \	Water		Sampled	l: 12/19/23 08:5	5	
Conventional Chemistry Parameters by APHA/EPA	Methods							
Dissolved Oxygen	11 mg/L	0.10	1	AL35067	12/21/23 17:00	12/21/23 17:00	0 1551 SM4500-O G	T-14
рН	7.65 pH Units	1.68	1	AL34725	12/22/23 10:52	12/22/23 15:27	7 2303 EPA 9045C	T-14
Specific Conductance (EC)	78 umhos/cm@	25° 10	1	AL34727	12/22/23 10:54	12/22/23 15:19	9 2303 SM2510B	
Total Alkalinity as CaCO3	38 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	0 2303 SM2320B	
Total Suspended Solids	14 mg/L	1.0	1	AL34648	12/22/23 09:15	12/22/23 16:30	0 1551 SM2540D	
Turbidity	15 NTU	1.0	1	AL34615	12/20/23 11:57	12/20/23 16:00	0 2303 SM2130B	
Bicarbonate Alkalinity as CaCO3	38 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	0 2303 SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	0 2303 SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	0 2303 SM2320B	
Hardness, Total	34 mg/L	15	1	AL34557	12/20/23 06:54	12/20/23 13:2	1 2303 SM2340B	
Anions by EPA Method 300.0								
Sulfate as SO4	2.3 mg/L	0.50	1	AL34497	12/19/23 13:05	12/19/23 17:53	3 2303 EPA 300.0	
Microbiological Parameters by APHA Standard Me	ethods							
Total Coliforms	>2419.6 MPN/100m	L 1.0	1	AL34516	12/19/23 15:35	12/20/23 16:20	0 2303 SM9223B	
E. Coli	180 MPN/100m	L 1.0	1	AL34516	12/19/23 15:35	12/20/23 16:20	0 2303 SM9223B	
SW-10 (23L2850-03)		Sample Type: \	Water		Sampled	1: 12/19/23 09:0	5	
Metals by EPA 200 Series Methods					_			
Arsenic	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Boron	ND mg/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Calcium	ND mg/L	5.0	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Chromium	ND mg/L	0.010	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Copper	ND mg/L	0.050	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Iron	1.7 mg/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Lead	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Magnesium	5.8 mg/L	0.60	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Manganese	0.073 mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Mercury	ND ug/L	0.20	1	AL34996	12/26/23 06:38	12/26/23 13:39	9 1551 EPA 245.1	
Sodium	ND mg/L	6.0	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Vanadium	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	
Zinc	ND mg/L	0.30	1	AL34557	12/20/23 06:54	12/20/23 13:24	4 2303 EPA 200.7	



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Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400 Seattle, WA 98103

Project: Surface Water

Project Number: Bottle Rock Monitoring - SW

	Result	Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	# Method	Note
SW-10 (23L2850-03)			Sample Type:	Water		Sampled	: 12/19/23 09:0	5		
Conventional Chemistry Parameters by APHA/E	PA Methods									
Dissolved Oxygen	10 m	ng/L	0.10	1	AL35067	12/21/23 17:00	12/21/23 17:00	1551	SM4500-O G	T-14
рН	7.36 pl	H Units	1.68	1	AL34725	12/22/23 10:52	12/22/23 15:27	2303	EPA 9045C	T-14
Specific Conductance (EC)	85 u	mhos/cm@25	5% 10	1	AL34727	12/22/23 10:54	12/22/23 15:19	2303	SM2510B	
Total Alkalinity as CaCO3	37 m	ng/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Total Suspended Solids	38 m	ng/L	1.0	1	AL34648	12/22/23 09:15	12/22/23 16:30	1551	SM2540D	
Turbidity	19 N	TU	1.0	1	AL34615	12/20/23 11:57	12/20/23 16:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	37 m	ng/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND m	ng/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND m	ng/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Hardness, Total	35 m	ng/L	15	1	AL34557	12/20/23 06:54	12/20/23 13:24	2303	SM2340B	
Anions by EPA Method 300.0										
Sulfate as SO4	1.7 m	ng/L	0.50	1	AL34497	12/19/23 13:05	12/19/23 18:06	2303	EPA 300.0	
Microbiological Parameters by APHA Standard M	Methods									
Total Coliforms		1PN/100mL	1.0	1	AL34516	12/19/23 15:35	12/20/23 16:20	2303	SM9223B	
E. Coli	770 M	1PN/100mL	1.0	1	AL34516	12/19/23 15:35	12/20/23 16:20	2303	SM9223B	
SW-8 (23L2850-04)			Sample Type:	Water		Sampled	: 12/19/23 09:1	5		
Metals by EPA 200 Series Methods						•				
Arsenic	ND m	ng/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Boron	ND m	ng/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Calcium	5.0 m	ng/L	5.0	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Chromium	ND m	ng/L	0.010	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Copper	ND m	ng/L	0.050	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Iron	1.3 m	ng/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Lead	ND m	ng/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Magnesium	5.7 m	ng/L	0.60	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Manganese	0.042 m	ng/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Mercury	ND uş	g/L	0.20	1	AL34996	12/26/23 06:38	12/26/23 13:42	1551	EPA 245.1	
Sodium	ND m	ng/L	6.0	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Vanadium	ND m	ng/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	
Zinc	ND m	ng/L	0.30	1	AL34557	12/20/23 06:54	12/20/23 13:28	2303	EPA 200.7	



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Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-8 (23L2850-04)	;	Sample Type:	Water		Sample	d: 12/19/23 09:1	5		
Conventional Chemistry Parameters by APH	A/EPA Methods	-			_				
Dissolved Oxygen	10 mg/L	0.10	1	AL35067	12/21/23 17:00	12/21/23 17:00	1551	SM4500-O G	T-14
рН	7.35 pH Units	1.68	1	AL34725	12/22/23 10:52	12/22/23 15:27	7 2303	EPA 9045C	T-14
Specific Conductance (EC)	84 umhos/cm@25	5% 10	1	AL34727	12/22/23 10:54	12/22/23 15:19	2303	SM2510B	
Total Alkalinity as CaCO3	42 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Total Suspended Solids	24 mg/L	1.0	1	AL34648	12/22/23 09:15	12/22/23 16:30	1551	SM2540D	
Turbidity	19 NTU	1.0	1	AL34615	12/20/23 11:57	12/20/23 16:00	2303	SM2130B	
Bicarbonate Alkalinity as CaCO3	42 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:30	2303	SM2320B	
Hardness, Total	36 mg/L	15	1	AL34557	12/20/23 06:54	12/20/23 13:28	3 2303	SM2340B	
Anions by EPA Method 300.0									
Sulfate as SO4	2.0 mg/L	0.50	1	AL34497	12/19/23 13:05	12/19/23 18:45	5 2303	EPA 300.0	
Microbiological Parameters by APHA Standar	rd Methods								
Total Coliforms	690 MPN/100mL	1.0	1	AL34516	12/19/23 15:35	12/20/23 16:20	2303	SM9223B	
E. Coli	460 MPN/100mL	1.0	1	AL34516	12/19/23 15:35	12/20/23 16:20	2303	SM9223B	
SW-6 (23L2850-05)	:	Sample Type:	Water		Sample	d: 12/19/23 09:5	0		
Metals by EPA 200 Series Methods					•				
Arsenic	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Boron	ND mg/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Calcium	6.4 mg/L	5.0	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Chromium	0.017 mg/L	0.010	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Copper	ND mg/L	0.050	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Iron	2.5 mg/L	0.10	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Lead	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Magnesium	11 mg/L	0.60	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Manganese	0.072 mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Mercury	ND ug/L	0.20	1	AL34996	12/26/23 06:38	12/26/23 13:45	1551	EPA 245.1	
Sodium	ND mg/L	6.0	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Vanadium	ND mg/L	0.020	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	
Zinc	ND mg/L	0.30	1	AL34557	12/20/23 06:54	12/20/23 13:31	2303	EPA 200.7	



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Bottle Rock Power

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Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

	Result Units	Reporting Limit	Dilution	Batch	Prepared	Analyzed	ELAP#	Method	Note
SW-6 (23L2850-05)		Sample Type:	Water		Sampled	l: 12/19/23 09:5	50		
Conventional Chemistry Parameters by APHA/	EPA Methods								
Dissolved Oxygen	10 mg/L	0.10	1	AL35067	12/21/23 17:00	12/21/23 17:0	0 1551 SN	⁄14500-О G	T-14
рН	7.54 pH Units	1.68	1	AL34725	12/22/23 10:52	12/22/23 15:2	7 2303 EP	PA 9045C	T-14
Specific Conductance (EC)	120 umhos/cm@25	5% 10	1	AL34727	12/22/23 10:54	12/22/23 15:1	9 2303 SN	/I2510B	
Total Alkalinity as CaCO3	60 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SN	/12320В	
Total Suspended Solids	29 mg/L	1.0	1	AL34648	12/22/23 09:15	12/22/23 16:3	0 1551 SN	И2540D	
Turbidity	24 NTU	1.0	1	AL34615	12/20/23 11:57	12/20/23 16:0	0 2303 SN	И2130B	
Bicarbonate Alkalinity as CaCO3	60 mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SN	И2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SN	Л 2320В	
Hydroxide Alkalinity as CaCO3	ND mg/L	30	1	AL34729	12/22/23 11:00	12/22/23 11:3	0 2303 SN	/12320В	
Hardness, Total	62 mg/L	15	1	AL34557	12/20/23 06:54	12/20/23 13:3	1 2303 SN	/12340В	
Anions by EPA Method 300.0									
Sulfate as SO4	2.8 mg/L	0.50	1	AL34497	12/19/23 13:05	12/19/23 18:5	8 2303 EP	PA 300.0	
Microbiological Parameters by APHA Standard	Methods								
Total Coliforms	>2419.6 MPN/100mL	1.0	1	AL34516	12/19/23 15:35	12/20/23 16:2	0 2303 SN	л9223B	
E. Coli	370 MPN/100mL	1.0	1	AL34516	12/19/23 15:35	12/20/23 16:2	0 2303 SN	И9223В	



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Seattle, WA 98103 Project Number: Bottle Rock Monitoring - SW

Reported: 01/03/24 11:39

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
• • • •	Result	Liiiit	Omts	Level	Result	70KLC	Limits	KI D	Limit	1 146
Batch AL34557 - NB EPA 200 series										
Blank (AL34557-BLK1)				Prepared &	Analyzed:	12/20/23				
Arsenic	ND	0.020	mg/L							
Boron	ND	0.10	mg/L							
Calcium	ND	5.0	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.050	mg/L							
Iron	ND	0.10	mg/L							
Lead	ND	0.020	mg/L							
Magnesium	ND	0.60	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	6.0	mg/L							
Vanadium	ND	0.020	mg/L							
Zinc	ND	0.30	mg/L							
LCS (AL34557-BS1)				Prepared &	Analyzed:	12/20/23				
Arsenic	0.504	0.020	mg/L	0.500		101	85-115			
Boron	0.481	0.10	mg/L	0.500		96.1	85-115			
Calcium	23.8	5.0	mg/L	25.5		93.3	85-115			
Chromium	0.459	0.010	mg/L	0.500		91.7	85-115			
Copper	0.471	0.050	mg/L	0.500		94.2	85-115			
Iron	0.502	0.10	mg/L	0.500		100	85-115			
Lead	0.476	0.020	mg/L	0.500		95.3	85-115			
Magnesium	25.2	0.60	mg/L	25.5		98.8	85-115			
Manganese	0.478	0.020	mg/L	0.500		95.6	85-115			
Sodium	25.9	6.0	mg/L	25.5		101	85-115			
Vanadium	0.476	0.020	mg/L	0.500		95.2	85-115			
Zinc	0.509	0.30	mg/L	0.500		102	85-115			
LCS Dup (AL34557-BSD1)				Prepared &	Analyzed:	12/20/23				
Arsenic	0.524	0.020	mg/L	0.500	, 200.	105	85-115	3.79	20	
Boron	0.496	0.10	mg/L	0.500		99.2	85-115	3.17	20	
Calcium	24.6	5.0	mg/L	25.5		96.4	85-115	3.22	20	
Chromium	0.474	0.010	mg/L	0.500		94.9	85-115	3.39	20	
Copper	0.485	0.050	mg/L	0.500		96.9	85-115	2.89	20	
Iron	0.516	0.10	mg/L	0.500		103	85-115	2.71	20	
Lead	0.491	0.020	mg/L	0.500		98.2	85-115	3.04	20	



Corporate: 208 Mason Street | Ukiah, CA 95482 | T: 707-468-0401 | F: 707-468-5267 | ELAP# 1551

Bottle Rock Power

Project Manager: Richard

4010 Stone Way North, Suite 400

Project: Surface Water

Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

Reported: 01/03/24 11:39

Metals by EPA 200 Series Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AL34557 - NB EPA 200 series										
LCS Dup (AL34557-BSD1)				Prepared &	: Analyzed:	12/20/23				
Magnesium	26.1	0.60	mg/L	25.5		102	85-115	3.48	20	
Manganese	0.496	0.020	mg/L	0.500		99.3	85-115	3.76	20	
Sodium	26.7	6.0	mg/L	25.5		105	85-115	3.10	20	
Vanadium	0.494	0.020	mg/L	0.500		98.7	85-115	3.65	20	
Zinc	0.515	0.30	mg/L	0.500		103	85-115	1.17	20	
Duplicate (AL34557-DUP1)	So	urce: 23L2850)-01	Prepared &	Analyzed:	12/20/23				
Arsenic	ND	0.020	mg/L		ND				20	
Boron	ND	0.10	mg/L		ND			0.738	20	
Calcium	7.46	5.0	mg/L		7.41			0.654	20	
Chromium	ND	0.010	mg/L		ND			0.00	20	
Copper	ND	0.050	mg/L		ND				20	
ron	1.15	0.10	mg/L		1.15			0.453	20	
Lead	ND	0.020	mg/L		ND				20	
Magnesium	7.57	0.60	mg/L		7.55			0.291	20	
Manganese	0.0266	0.020	mg/L		0.0266			0.00	20	
Sodium	ND	6.0	mg/L		ND				20	
Vanadium	ND	0.020	mg/L		ND			3.28	20	
Zinc	ND	0.30	mg/L		ND				20	
MRL Check (AL34557-MRL1)				Prepared &	: Analyzed:	12/20/23				
Arsenic	0.0191	0.020	mg/L	0.0200		95.5	0-200			
Boron	0.0840	0.10	mg/L	0.100		84.0	0-200			
Calcium	4.56	5.0	mg/L	5.00		91.1	0-200			
Chromium	0.00850	0.010	mg/L	0.0100		85.0	0-200			
Copper	0.0907	0.050	mg/L	0.100		90.7	0-200			
Iron	0.100	0.10	mg/L	0.100		100	0-200			
Lead	0.0177	0.020	mg/L	0.0200		88.5	0-200			
Magnesium	0.520	0.60	mg/L	0.500		104	0-200			
Manganese	0.0198	0.020	mg/L	0.0200		99.0	0-200			
Sodium	5.34	6.0	mg/L	5.00		107	0-200			
Vanadium	0.0186	0.020	mg/L	0.0200		93.0	0-200			
Zinc	0.362	0.30	mg/L	0.350		104	0-200			



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Seattle, WA 98103

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		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AL34557 - NB EPA 200 series										
Matrix Spike (AL34557-MS1)	Sou	rce: 23L2850	0-02	Prepared &	Analyzed:	12/20/23				
Arsenic	0.501	0.020	mg/L	0.500	ND	100	70-130			
Boron	0.530	0.10	mg/L	0.500	ND	97.7	70-130			
Calcium	30.6	5.0	mg/L	25.5	6.61	94.2	70-130			
Chromium	0.462	0.010	mg/L	0.500	ND	92.4	70-130			
Copper	0.474	0.050	mg/L	0.500	ND	94.9	70-130			
Iron	1.51	0.10	mg/L	0.500	0.892	124	70-130			
Lead	0.473	0.020	mg/L	0.500	ND	94.6	70-130			
Magnesium	29.7	0.60	mg/L	25.5	4.31	99.5	70-130			
Manganese	0.505	0.020	mg/L	0.500	0.0269	95.7	70-130			
Sodium	28.3	6.0	mg/L	25.5	ND	111	70-130			
Vanadium	0.478	0.020	mg/L	0.500	ND	95.7	70-130			
Zinc	0.513	0.30	mg/L	0.500	ND	103	70-130			

Batch AL34996	- Hg	Digest
---------------	------	--------

vanaaran	0.170	0.020		0.500	ND	75.1	70 130						
Zine	0.513	0.30	mg/L	0.500	ND	103	70-130						
Batch AL34996 - Hg Digest													
Blank (AL34996-BLK1)	Prepared & Analyzed: 12/26/23												
Mercury	ND	0.20	ug/L										
LCS (AL34996-BS1)				Prepared &	Analyzed:	Analyzed: 12/26/23 Analyzed: 12/26/23 100 85-115 Analyzed: 12/26/23 ND 20							
Mercury	2.50	0.20	ug/L	2.50		100	85-115						
Duplicate (AL34996-DUP1)	Source	ce: 23L279	5-01	Prepared &	Analyzed:	12/26/23							
Mercury	ND	0.20	ug/L		ND			20					
Matrix Spike (AL34996-MS1)	Sourc	e: 23L279	5-01	Prepared &	Analyzed:	12/26/23							
Mercury	2.48	0.20	ug/L	2.50	ND	99.4	70-130						



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Seattle, WA 98103 Project Number: Bottle Rock Monitoring - SW

Reported: 01/03/24 11:39

Metals by EPA 200 Series Methods - Quality Control

Metals by E111200 Series Methods - Quanty Control														
		Reporting		Spike	Source		%REC		RPD					
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag				
Batch AL34996 - Hg Digest														
Matrix Spike (AL34996-MS2)	Sourc	ce: 23L279	5-02	Prepared &	Analyzed:	d: 12/26/23								
Mercury	2.41	0.20	ug/L	2.50	ND	96.4	70-130							
Matrix Spike Dup (AL34996-MSD1)	Sourc	Prepared &	z Analyzed:	12/26/23										
Mercury	2.50	0.20	ug/L	2.50	ND	100	70-130	0.602	20					



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Seattle, WA 98103

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Reported: 01/03/24 11:39

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AL34557 - NB EPA 200 series										
Blank (AL34557-BLK1)				Prepared &	Analyzed:	12/20/23				
Hardness, Total	ND	15	mg/L							
Duplicate (AL34557-DUP1)	Sou	rce: 23L2850	0-01	Prepared &	Analyzed:	12/20/23				
Hardness, Total	50	15	mg/L		50			0.427	20	
Batch AL34615 - NB General Prep										
Blank (AL34615-BLK1)				Prepared &	Analyzed:	12/20/23				
Turbidity	ND	1.0	NTU							
Calibration Check (AL34615-CCV1)				Prepared &	Analyzed:	12/20/23				
Turbidity	9.27	1.0	NTU				0-200			
Duplicate (AL34615-DUP1)	Sou	rce: 23L285	3-01	Prepared &	Analyzed:	12/20/23				
Turbidity	2.50	1.0	NTU		2.64			5.45	20	
MRL Check (AL34615-MRL1)				Prepared &	Analyzed:	12/20/23				
Turbidity	0.820	1.0	NTU	10.0		8.20	0-200			
Batch AL34648 - General Preparation										
Blank (AL34648-BLK1)				Prepared &	Analyzed:	12/22/23				
Total Suspended Solids	ND	1.0	mg/L							
LCS (AL34648-BS1)				Prepared &	Analyzed:	12/22/23				
Total Suspended Solids	98.0	1.0	mg/L	100		98.0	90-110			



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Project Number: Bottle Rock Monitoring - SW

		Reporting		Spike	Source		%REC		RPD	
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag
Batch AL34648 - General Preparation										
Duplicate (AL34648-DUP1)	Sour	ce: 23L294	7-02	Prepared &	Analyzed:	12/22/23				
Total Suspended Solids	312	1.0	mg/L		322			3.15	30	
Batch AL34725 - NB General Prep										
Duplicate (AL34725-DUP1)	Sour	ce: 23L285	0-01	Prepared &	Analyzed:	12/22/23				
pH	7.53	1.68	pH Units		7.49			0.533	20	
Batch AL34727 - NB General Prep										
Duplicate (AL34727-DUP1)	Sour	ce: 23L285	0-01	Prepared &	Analyzed:	12/22/23				
Specific Conductance (EC)	105	10m	hos/cm@25	°(105			0.285	5	
Batch AL34729 - NB General Prep										
LCS (AL34729-BS1)				Prepared &	Analyzed:	12/22/23				
Total Alkalinity as CaCO3	1070	30	mg/L	1000		107	80-120			
Duplicate (AL34729-DUP1)	Sour	ce: 23L285	0-01	Prepared &	Analyzed:	12/22/23				
Total Alkalinity as CaCO3	47.4	30	mg/L		48.2			1.67	20	
Bicarbonate Alkalinity as CaCO3	47.4	30	mg/L		48.2			1.67	20	
Carbonate Alkalinity as CaCO3	ND	30	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	30	mg/L		ND				20	
Batch AL35067 - General Preparation										
Duplicate (AL35067-DUP1)	Sour	ce: 23L285	0-04	Prepared &	Analyzed:	12/21/23				
Dissolved Oxygen	10.4	0.10	mg/L		10.4			0.385	20	



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	Anions by EPA Method 300.0 - Quality Control															
		Reporting		Spike	Source		%REC		RPD							
Analyte(s)	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Flag						
Batch AL34497 - NB General Prep																
Blank (AL34497-BLK1)				Prepared &	Analyzed:	12/19/23										
Sulfate as SO4	ND	0.50	mg/L													
LCS (AL34497-BS1)				Prepared &	: Analyzed:	d: 12/19/23										
Sulfate as SO4	8.40	0.50	mg/L	8.00		105	90-110									
Duplicate (AL34497-DUP1)	Sour	ce: 23L2828	3-04	Prepared &	: Analyzed:	12/19/23										
Sulfate as SO4	7.39	0.50	mg/L		7.32			0.938	20							
MRL Check (AL34497-MRL1)				Prepared &	: Analyzed:	12/19/23										
Sulfate as SO4	1.66	0.50	mg/L	1.60		104	60-140									
Matrix Spike (AL34497-MS1)	Sour	ce: 23L2828	3-03	Prepared &	: Analyzed:	12/19/23										
Sulfate as SO4	65.2	0.50	mg/L	8.00	68.5	NR	80-120			QM-02						
Matrix Spike (AL34497-MS2)	Sour	ce: 23L2850	0-01	Prepared &	: Analyzed:	12/19/23										
Sulfate as SO4	12.0	0.50	mg/L	8.00	3.51	106	80-120									
Matrix Spike Dup (AL34497-MSD1)	Sour	ce: 23L2828	3-03	Prepared &	: Analyzed:	12/19/23										
Sulfate as SO4	65.1	0.50	mg/L	8.00	68.5	NR	80-120	0.187	20	QM-02						



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Seattle, WA 98103

Project Number: Bottle Rock Monitoring - SW

Reported: 01/03/24 11:39

Notes and Definitions

>2419.6 >2419.6

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of

analyte inherent in the sample.

T-14 Residual chlorine, dissolved oxygen, sulfite, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

REC Recovery

RPD Relative Percent Difference

^{*} ELAP does not offer accreditation in this matrix for the requested analyte/method combination.



WATERS, SEDIMENTS, SOLIDS

Corporate Laboratory (1551) 208 Mason Street, Ukiah CA 95482

707.468.0401 (phone) 707.468.5267 (fax) clientservices@alpha-labs.com

North Bay Laboratory (2303) 737 Southpoint Blvd, Ste D, Petaluma 94954 Bay Area Laboratory (2728) 262 Rickenbacker Circle, Livermore CA 94551

Central Valley Laboratory (2922) 9090 Union Park Way #113, Elk Grove CA 95624

San Diego Service Center 2722 Loker Ave West, Ste A, Carlsbad CA 92010

Chain of Custody - Work Order

Reports and Invoices delivered by email in PDF format

ab No <u>1312850</u> pg___ of_

Report to	In	nvoice to (if different)					Project Information Signature below authorizes								wor	vork under terms stated on reverse side.													
Company: Bottle Rock Power	Contact:		F	-	roject ID: Bottle Rock Monitoring-SW Analysis Request										TAT	(4)(MP °C												
Attn: Richard Lacy	Email addre	ss:				F	roje	ct N	0:				_		r		T										Standard 10 days	ι	Jkiah
Address: PO Box 326	Audress.							PO Number:						Sample ID													RUSH:	Liv	ermore
Cobb, CA 95426 Phone/Fax:	Phone/Fax:				-	ď	ON	uiiib	er.					per Sa			+	-									5 days		
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Email Address,														Containers			1									- 1	0		
Field Sampler - Printed Name & Signature Richard Lay	ə:		Vial	Conta	ainer		Pre	ser	vativ	е	Water	Matr	rix	Number of Con		, ec	×	0,	e & Pb	k Zn	Oxygen		V, Hg				Other:	11	taluma , 9 arlsbad
Sample Identification	Sam Date	pling	40ml VOA	Plastic	Sleeve	Other	HOUSE	H2S04	Other	None	Drinking	Wastewater	Soil	Total No		ALK, Pn,	I di Diditi	rg.	B, Cu, Fe	Mn, Na &	Diss. 0x	Bac-T	As, Cr, V				Preapproval required Notes / DDW	Source	Codes
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SW-9 12	1195	8:55		X)	4									6		2 ×	1	X,	X	X	X	X	X						
SIN- 10 12	19/23	9:05		XX										16	2	X 3	4	X.	X	X	X	×	X						
514-8 12	10/2	9:15		XX	d									6	5 3	X)	X.	X	X	X	×	X	X						
SW-6 12	119/23	9:50		X	X	П	1	I			П		1	6		× /	c,	X.	×	X	×	×	X			_			
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												Travel and Site Time: Mileage:							Misc. Suppl	es:									

