

STORM WATER AWARENESS WEEK

LAKE TAHOE BASIN AND NORTH LAHONTAN REGION PANEL DISCUSSION

PANEL:
BOB SHULTS & JIM CAROLAN

WWW.VERUXINC.COM

BOB@VERUXINC.COM



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ABOUT

Bob Shults

Professional Civil Engineer C58323, QSD/P#00369, Caltrans WPCM Trainer, CGP-ToR

Bob Shults is Co-Owner of Verux LLC (founded in 2010) a full-service storm water consulting firm providing document preparation, program audit, review, and SWPPP inspection services for contractors, agencies, municipalities, and developers. Along with SWPPP / WPCP development and related management and inspection expertise, Bob's background includes working for a large Heavy Civil construction firm as a Project Manager, General Superintendent and Estimator. Bob has also worked as a construction / project manager for large-scale mixed-use master planned communities.



Verux LLC



ABOUT

Jim Carolan

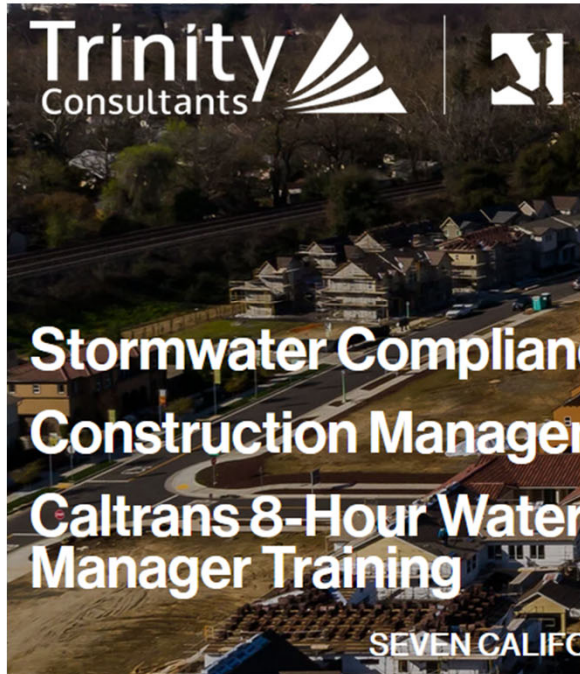
Engineering Geologist at Lahontan Regional Water Quality Control Board
Professional Geologist, CA No. 6664, 1997
Certified Hydrogeologist, CA No. 589, 1998
Registered Geologist, AZ No. 1105, 2002
Professional Geoscientist, TX No. 3842, 2003

Jim Carolan has worked at the Lahontan Regional Water Quality Control Board for more than 12 years. Jim has more than 20 years of experience in site characterization, remedial action plan implementation, and construction management. Jim designed, developed, and managed projects ranging from Phase I site assessments to large-scale site characterization and remediation programs. Jim have participated extensively in remediation projects involving groundwater treatment, demolition and soil excavation, on-site soil treatment, shoring installation, asphalt paving, and concrete construction.

Jim has 13 years of regulatory experience managing stormwater programs, site cleanup programs and forestry programs.

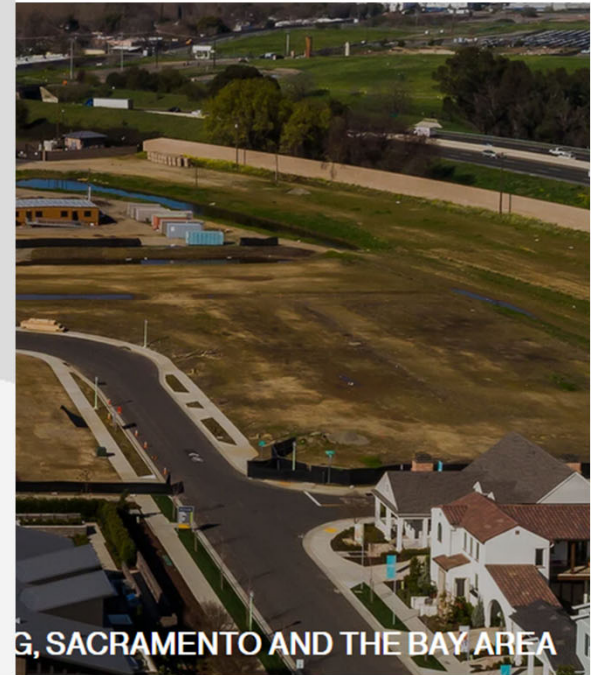


**Lahontan
Regional
Water Board**



VERUX JOINS TRINITY CONSULTANTS

[LEARN MORE](#)



Sacramento/Corporate Office

**9848 Business Park Drive
Sacramento, CA 95827
916-930-6000**

Regional Offices

**Santa Rosa
Concord
Stockton**

**Chico
Salinas
Fresno**

Thursday, October 15th, 2026

IN 4 WEEKS

8:00 AM

BOOK

Caltrans 8-Hour WPCM Training - Verux Office with Caltrans 8-Hour WPCM Training - Verux Office

Verux Office - 9848 Business Park Dr Suite C Sacramento, CA 95827

Tuesday, December 8th, 2026

IN 12 WEEKS

8:00 AM

BOOK

Caltrans 8-Hour WPCM Training - Verux Office with Caltrans 8-Hour WPCM Training - Verux Office

Verux Office - 9848 Business Park Dr Suite C Sacramento, CA 95827

Tuesday, February 16th, 2027

IN 22 WEEKS

8:00 AM

BOOK

Caltrans 8-Hour WPCM Training - Verux Office with Caltrans 8-Hour WPCM Training - Verux Office

Verux Office - 9848 Business Park Dr Suite C Sacramento, CA 95827

Tuesday, April 13th, 2027

IN 30 WEEKS

8:00 AM

BOOK

Caltrans 8-Hour WPCM Training - Verux Office with Caltrans 8-Hour WPCM Training - Verux Office

Verux Office - 9848 Business Park Dr Suite C Sacramento, CA 95827

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CALTRANS WPCM 8-HOUR TRAINING

BOOK TRAINING CLASS

AGENDA

- Lahontan Region Locations
- CGP and LTCGP
- Inspector Focus / Issues
- Stormwater Enforcement
- Q&A



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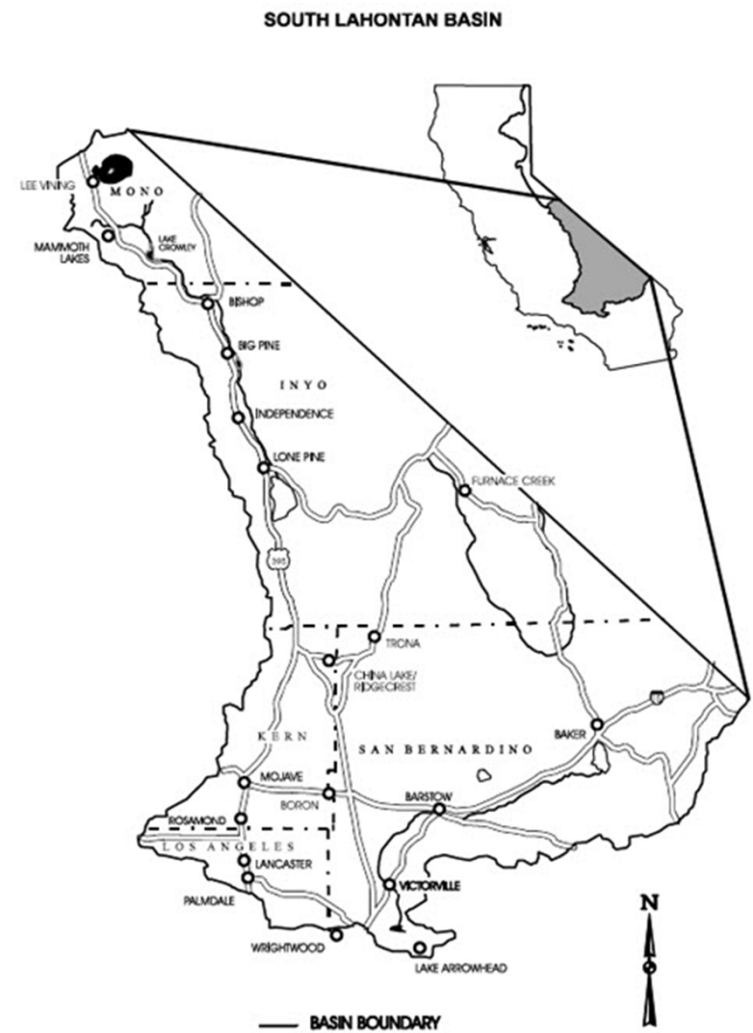
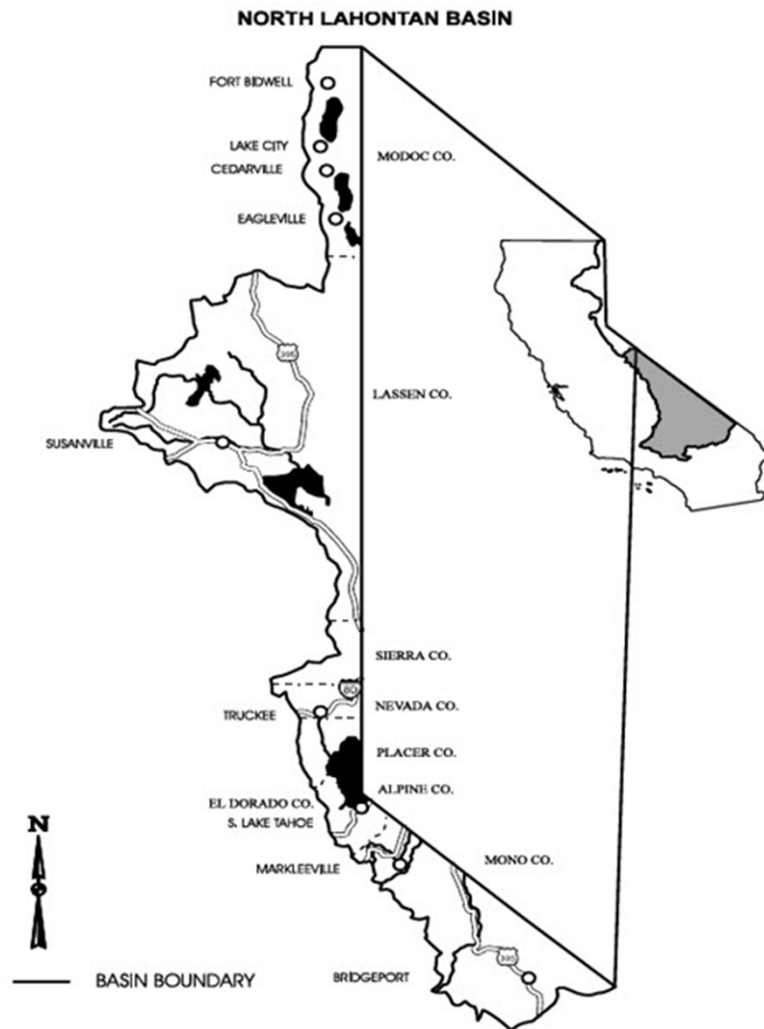
AGENDA

Lahontan Region Locations

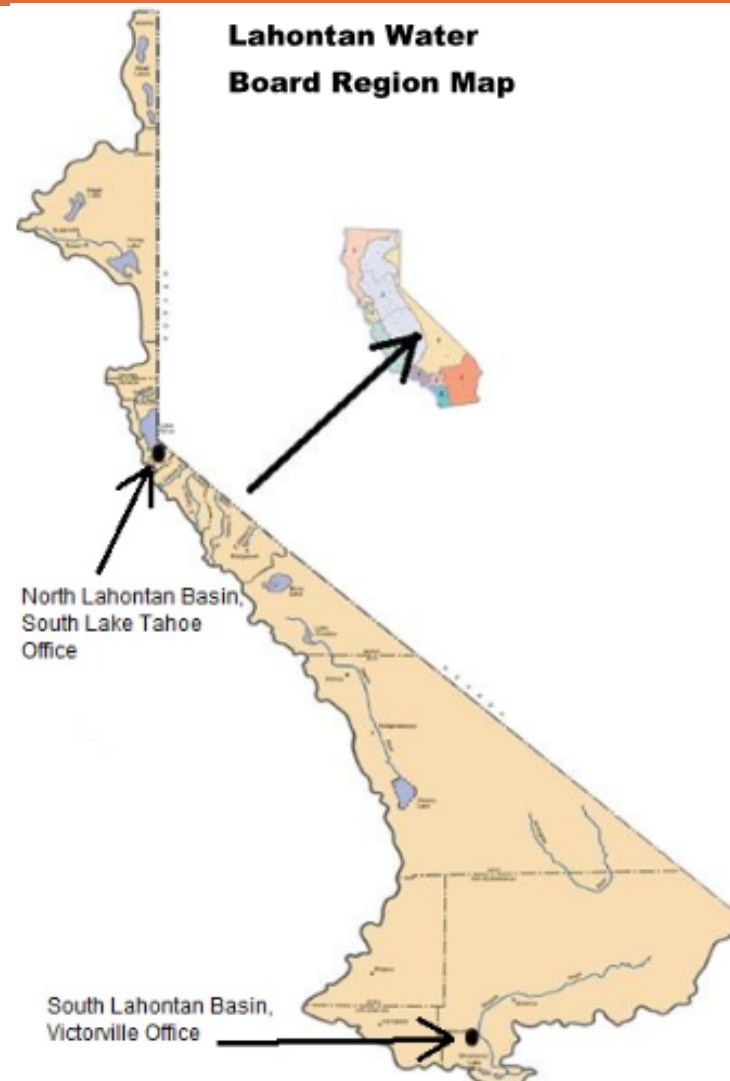


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Lahontan Region Locations



Lahontan Region Locations



AGENDA

CGP
And
LTCGP



Verux LLC

CGP and LTCGP

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD
1001 I Street Sacramento, CA 95814
<https://www.waterboards.ca.gov>

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH
CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES
(GENERAL PERMIT)**

ORDER WQ 2022-0057-DWQ
NPDES NO. **CAS000002**

This Order was adopted by the State Water Resources Control Board on:	September 8, 2022
This Order shall become effective on:	September 1, 2023
The statewide programmatic permitting option per Section III.B.4 of this Order shall become effective on:	December 17, 2022
This Order shall expire on:	August 31, 2028

CGP and LTCGP

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LAHONTAN REGION

2501 Lake Tahoe Boulevard, South Lake Tahoe, CA 96150
(530) 542-5400 • Fax (530) 544-2271
<http://www.waterboards.ca.gov/lahontan>

**ORDER NO. R6T-2016-0010
NPDES NO. CAG616002**

**GENERAL WASTE DISCHARGE REQUIREMENTS
AND NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT
FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IN
THE LAKE TAHOE HYDROLOGIC UNIT,
COUNTIES OF ALPINE, EL DORADO, AND PLACER**

CGP and LTCGP

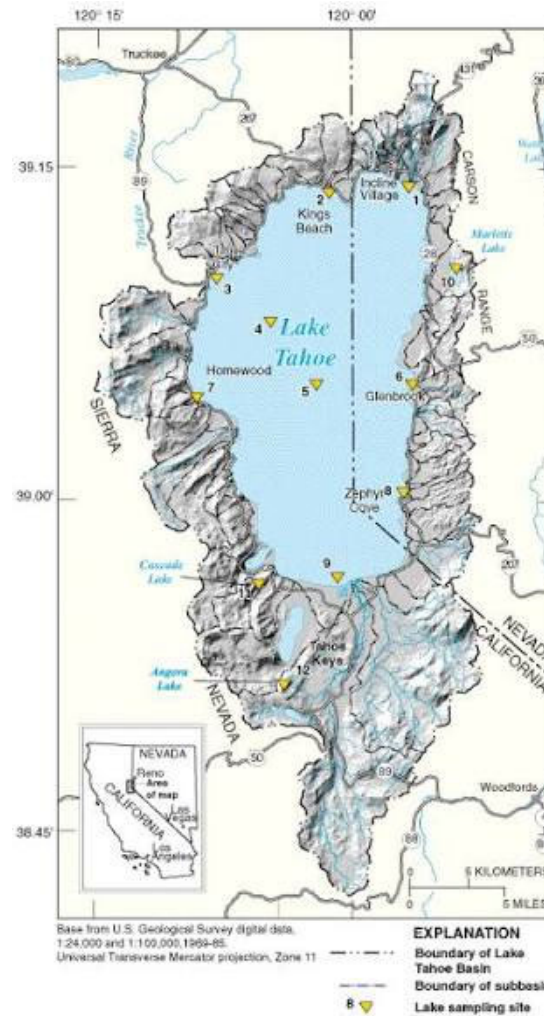


Figure 1. Lake sampling sites in Lake Tahoe Basin, Nevada and California.

CGP and LTCGP – LT Unique Items

Permitting and Reporting

There is no risk level in the Tahoe CGP. All projects are considered the same risk. Additionally, there is no option for an erosivity waiver in the Tahoe CGP.

The Tahoe CGP requires an annual report to be submitted by November 30 each year for the period of October 16 through October 15 the following year.

The requirements include: 1) 24-hour reporting of an adverse condition resulting from a discharge (e.g., oil spill, unauthorized non-storm water discharge to surface waters, breach of perimeter controls, NEL violation); 2) reporting through SMARTS of all field data within 5 days (laboratory analyses within 5 days of receipt of the results); 3) annual reporting; and 4) final reporting upon project completion for NOT requests.

CGP and LTCGP – LT Unique Items

QSD and QSP Requirements

1. Qualified SWPPP Developer: Dischargers shall ensure that SWPPPs are written, amended and certified by a Qualified SWPPP Developer (QSD). A QSD shall have one of the following registrations or certifications, and appropriate experience, as required for:
 - a. A California Board of Professional Engineers, Land Surveyors, and Geologist (CBPELSG) license in good standing as a professional civil engineer, professional geologist, and/or professional engineering geologist;
 - b. A California registered Landscape Architect;
 - c. A professional hydrologist registered through the American Institute of Hydrology;
 - d. A Certified Professional in Erosion and Sediment Control (CPESC)[™] registered through EnviroCert International, Inc;
 - e. A Certified Professional in Storm Water Quality (CPSWQ)[™] registered through EnviroCert International, Inc.; or
 - f. A professional in erosion and sediment control registered through the National Institute for Certification in Engineering Technologies (NICET).

CGP and LTCGP – LT Unique Items

QSD and QSP Requirements

3. Qualified SWPPP Practitioner: Dischargers shall ensure that implementation of all BMPs required by this General Permit and all other SWPPP elements are overseen and managed by a Qualified SWPPP Practitioner (QSP). A QSP shall be either a QSD or have one of the following certifications:
 - a. A certified erosion, sediment and storm water inspector registered through EnviroCert International, Inc.; or
 - b. A certified inspector of sediment and erosion control registered through Certified Inspector of Sediment and Erosion Control, Inc.
5. QSP Responsibilities: The project QSP is responsible for assisting the Discharger to comply with the General Permit through the proper implementation, management, and monitoring of the SWPPP elements and other General Permit requirements. The QSP must directly manage these activities by being present at the site and/or through a communication plan that allows the QSP to actively and effectively manage trained personnel conducting the SWPPP activities. The SWPPP must include a written plan describing how the QSP will oversee and manage all SWPPP activities and the Discharger must maintain written records documenting the QSP's plan implementation and effectiveness.

The QSP Management Plan must show how the QSP plans to inspect and report all of the required visual inspections and monitoring requirements, prepare and implement REAPs, prepare and submit water quality exceedance reports, ensure that all employees have current water pollution control training, and correct any construction activities damaging water pollution control practices or causing water pollution.

CGP and LTCGP – LT Unique Items

LT REAP INSPECTIONS

F. Rain Event Action Plan

A Rain Event Action Plan (REAP) is a written document, specific for each rain event, that when implemented, protects all exposed portions of the site. The REAP requirement is designed to ensure that Dischargers have adequate materials, staff, and time to implement erosion and sediment control measures before the storm event occurs. A REAP shall be developed at least 24 hours before the day a forecast of 30 percent or greater probability of 0.1 inch or more of precipitation is predicted in the project area. This requirement differs from the requirements established in the Statewide Construction General Permit due to the nature of summer thunderstorms that typically occur in the Lake Tahoe Basin.

Dischargers shall consult the National Oceanic and Atmospheric Administration (NOAA) website to determine the probability of predicted rain events in the project area. The website link is: <http://www.srh.noaa.gov/forecast>. Dischargers should be prepared to respond rapidly during periods when thunderstorm activity is predicted and monitor weather conditions for impending thunderstorms that may be localized in the project area.

CGP and LTCGP – LT Unique Items

NELs and Compliance Storms

Discharge compliance points are the same for both permits. However, in accordance with the Basin Plan, Tahoe CGP includes NELs for iron, nitrogen, phosphorus, oil and grease, and turbidity. Samples are required to be sampled for turbidity using portable field meters. Other constituents must be sampled in accordance with non-visible pollutant sampling requirements.

The NEL for turbidity is 20 NTU and there is no numeric action level (NAL) compared with the State-Wide CGP. A daily average turbidity level must be determined in the same manner as that required in the State Board CGP. A benchmark or action level for pH is set at 6.0 to 9.0.

The compliance storm event for the Tahoe CGP is different than that set in the State-Wide CGP. Compliance with NELs is not required for pollutant concentrations that result from a 20-year, 1-hour storm event (1 inch of rain in a 1-hour period) or greater. This is geared toward the occurrence of summer thunderstorms, which can cause significant erosion in a short time frame during the active construction season.

CGP and LTCGP – LT Unique Items

Winter Work Prohibitions

17. Activities such as grading, filling, and clearing of vegetation that disturb soil are prohibited during periods of inclement weather that cause saturated, muddy, or unstable soil conditions. Additionally, by October 15 of each year all disturbed areas must be permanently stabilized or temporarily winterized to prevent excess sediment and other pollutants from discharging off the project site, and land-disturbing activities must cease from October 16 to April 30 of the following year. Winterized means to implement appropriate BMPs to prevent and minimize erosion and soil movement from the site in storm water in a manner that will remain effective until May 1 of the following year.

Special regulations apply to construction activities occurring between October 16 and April 30, as follows:

- a. All areas of the project site must be adequately winterized by October 15 as a condition for continued work on the site.
- b. The Lahontan Water Board Executive Officer may grant variances to allow limited grading and land disturbance during this period when finding in writing that controls are in place to protect water quality.

CGP and LTCGP

Winter Work Prohibitions



Lahontan Regional Water Quality Control Board

November 7, 2023

NOTICE FOR PROJECTS SUBJECT TO SOIL DISTURBANCE PROHIBITIONS AND DISCHARGERS PERMITTED UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY IN THE LAKE TAHOE HYDROLOGIC UNIT, COUNTIES OF ALPINE, EL DORADO, AND PLACER (LAKE TAHOE CONSTRUCTION GENERAL PERMIT), CLARIFICATION ON ATTACHMENT C.III.A & B

The purpose of this Notice is to provide project implementers subject to soil disturbance prohibitions and Dischargers permitted under the Lake Tahoe Construction General Permit with a summary of Lahontan Regional Water Quality Control Board (Lahontan Water Board) staff's expectations for permit compliance during the winter period (October 16 through April 30). This summary was prepared in response to several requests for clarification of the Lahontan Water Board's soil disturbance prohibitions and the Lake Tahoe Construction General Permit's visual inspection requirements.

CGP and LTCGP

Winter Work Prohibitions

Soil Disturbance Prohibition Clarifications

- 1) During the winter period, Dischargers may continue to conduct non-soil disturbing construction activities (e.g., vertical construction), if all inactive areas/disturbed soil areas have been “winterized”/stabilized and there is no soil disturbance associated with these construction activities.
 - a. Dischargers may conduct non-soil disturbing construction activities (e.g., vertical construction), during the winter period without obtaining an approved Variance Request², provided all site entrance/exits, travelways and active staging/parking areas associated with construction activities (e.g., vertical construction) shall be paved and/or surfaced with appropriately sized gravel/rock. If these areas are not paved and/or surfaced with appropriately sized gravel/rock, vehicle and/or equipment use/travel in these areas will be considered soil disturbance.
- 2) A Variance Request must be submitted to Lahontan Water Board Staff for review and approval prior to soil disturbing construction conducted during the winter period.
- 3) All soil disturbing activities conducted in the Lake Tahoe Hydrologic Unit during the winter period require an approved Variance Request. There is no allowable lower limit volume/area for conducting soil disturbing activities in the Lake Tahoe Hydrologic Unit and/or on projects with soil disturbance prohibitions during the winter period without an approved Variance Request.

CGP and LTCGP

Winter Work Prohibitions

- A. *During the active construction season (defined as May 1 through October 15 for purposes of this General Permit), an inspection of the construction site shall be made each work day. Dischargers working (under an approved variance) during the period from October 16 through April 30 of the following year shall also conduct inspections on a daily basis. During the winter or inactive period (defined as October 16 through April 30 for purposes of this General Permit), Dischargers must conduct inspections at least once per month during daylight hours unless there is complete snow coverage of the site.*
- B. *During active construction periods, and including Dischargers working (under an approved variance) during the period from October 16 through April 30 of the following year, a construction site inspection shall also be performed within 24 hours prior to an anticipated precipitation event (chance of precipitation as rain is forecasted at 30 percent or greater), daily during extended rain storm events, and within 24 hours after actual rain storm events. These requirements do not apply during snow storm events. Otherwise during the inactive period (October 16 through April 30 the following year), inspections must be conducted only within 24 hours after rain storm events. This requirement does not apply when the inactive site is covered by snow. If Dischargers cannot complete an inspection within the specified time frames, the reason for the delay shall be recorded in writing and maintained with the next inspection report.*

CGP and LTCGP

Winter Work Prohibitions

Visual Inspection Requirement Clarifications

- 1) All construction activities, including vertical construction, constitutes an active construction period, and therefore requires daily inspections and reports for each active construction workday, pre-, during- and post- storm event inspections, if weather is predicted, and all Construction Site Monitoring and Reporting Program (CSMRP) requirements. This includes sites where no Variance is requested, as the site has already been appropriately winterized and only non-soil disturbing construction is planned to continue,
- 2) If a Variance Request is approved, and weather conditions allow, work conducted under the Variance Request also constitutes an active construction period, and each active construction workday is also subject to CSMRP requirements.
- 3) The monthly and precipitation event-triggered inspection requirements apply when the construction site is completely inactive (i.e., no construction activity of any kind is occurring) and the site is not yet snow covered.

AGENDA

Inspector Focus And Issues



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Inspector Focus and Issues

2022 CGP

- SWPPP document to be made available as requested by Regional Board
- BMPs installed and maintained
- Corrective actions completed per requirements
- Inspection exemptions documented

Lake Tahoe CGP

- Hard copies of SWPPP documents at the site
- Daily inspections by a QSP or appropriately trained QSP Delegate
- Minimum of weekly trainings by a QSP
- BMPs in place per the permit
 - Perimeter Controls (run-on and run-off)
 - Trackout Controls (all entrances and exits)
 - Street Sweeping
 - Inlet Protection
 - Stabilization Materials
 - Stockpile Management
 - Spill Prevention and Solid Waste Management

AGENDA

Enforcement



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Enforcement

[Regional Board](#)[Programs](#)[News Room](#)[Board Decisions](#)[Public Notices](#)[Water Boards](#)[Search](#)

Current Enforcement Cases

- [Proposed Administrative Civil Liability Settlement with for Alpine View Estates, Tahoe Vista, Placer County](#) \$850K
- [Administrative Civil Liability Agreement with North Tahoe Public Utility District and CalTrans for the discharge to Lake Tahoe, Placer County](#) \$150K
- [Administrative Civil Liability Agreement with Stonebridge Properties LLC and Teichert Construction for the Coldstream Planned Community, Nevada County](#) \$900K
- [Tahoe Keys Marina, Order No. R6-2025-0010, settling MMPs](#)
- [Revised Cleanup and Abatement Order, Big O Tires, El Dorado County](#)
- [Revised Cleanup and Abatement Order, Former Norma's Cleaners, El Dorado County](#)
- [Administrative Civil Liability R6-2024-0044 for Park Livestock Co. and David Park.](#)
- [Notice of Opportunity to Comment on Amended Cleanup and Abatement Order No. 6-00-71A1 for Janesville Payless Gas Station – Comments due by December 9, 2024.](#)
- [Administrative Civil Liability Agreement with the Town of Truckee and Teichert Construction for the Coldstream Roundabout Construction Project, Nevada County](#)
- [Proposed Settlement Agreement, Sugar Pine Housing Partners LP and Deacon Construction LLC, Sugar Pine Village Construction Project. – Comments due by July 17, 2024.](#)
- [Tentative Cleanup and Abatement Order, 11357 Deerfield Drive \(previously known as Crossroads Cleaners\), Nevada County – Comments due by May 27, 2024.](#)
- [Proposed Settlement Agreement, Town of Truckee and Teichert Construction, Coldstream Roundabout Construction Project - Comments due by April 5, 2024.](#)
- [Proposed Cleanup and Abatement Order, Lake Tahoe Laundry Works – New information is available as of June 26, 2026](#)

Enforcement

SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

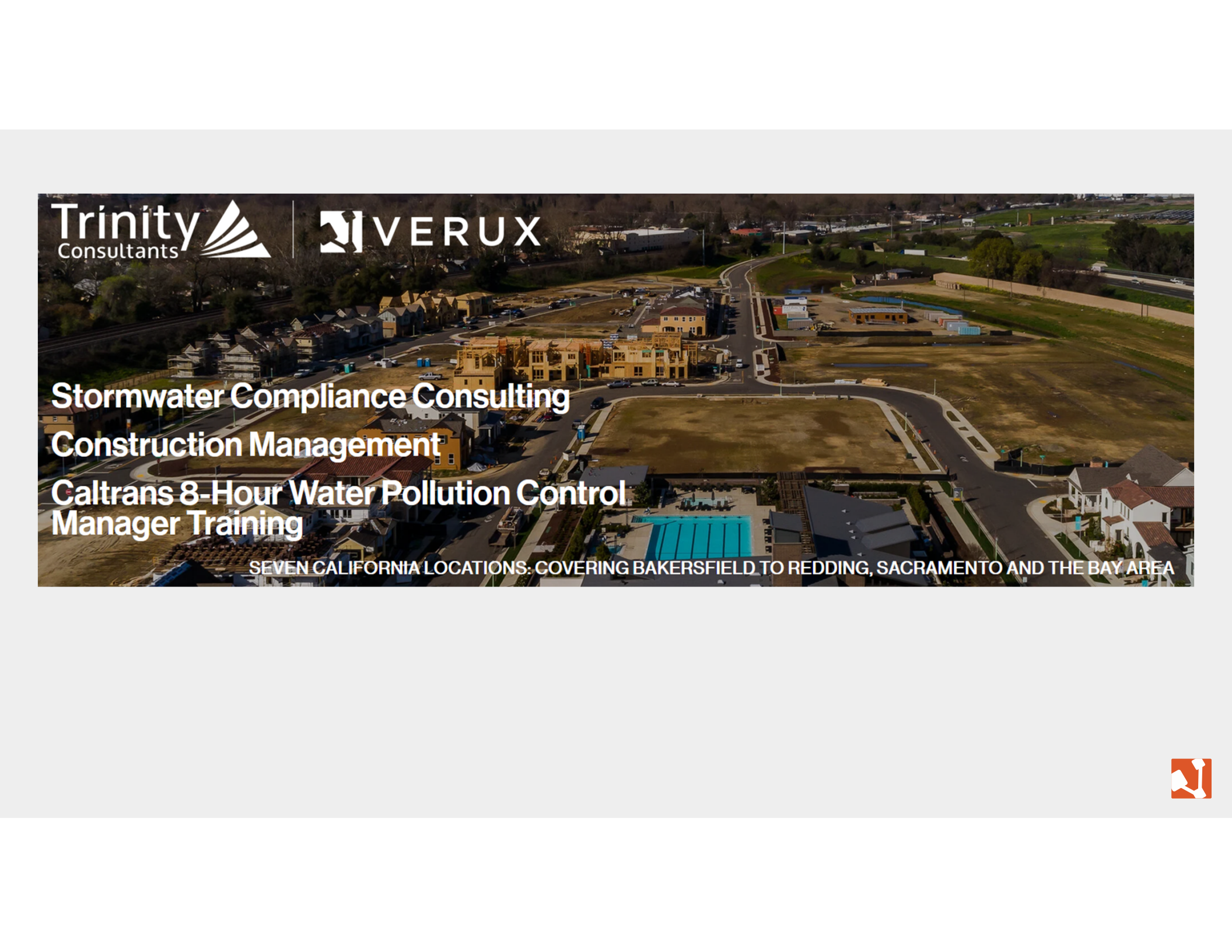
The Parties agree that the remaining **four hundred forty-five thousand dollars (\$445,000)** (SEP Amount) of the administrative civil liability shall be paid to the [REDACTED] SEP Implementing Party) for implementation of the [REDACTED] Restoration Supplemental Environmental Project (SEP), as described herein and in Attachment B, which is hereby incorporated by reference. The [REDACTED] Restoration SEP will improve instream and riparian habitat, restore natural functions to promote ecosystem recovery and increase resilience against climate change, and is designed to improve water quality in [REDACTED] Creek and the downstream

AGENDA

Q&A



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Trinity
Consultants

VERUX

Stormwater Compliance Consulting
Construction Management
Caltrans 8-Hour Water Pollution Control
Manager Training

SEVEN CALIFORNIA LOCATIONS: COVERING BAKERSFIELD TO REDDING, SACRAMENTO AND THE BAY AREA

