

FOR CONTRACT NO.: 01-0A4204
Project ID: 0100020281

INFORMATION HANDOUT

WATER QUALITY

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
NORTH COAST REGION

Mendocino County General Order
Resolution No. R1-2003-0041

Policy for Waiving Waste Discharge Requirements
For Specific Types of Waste Discharge
R1-2012-0099

MATERIALS INFORMATION

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

ROUTE: 01-MEN-101,271 - PM VAR



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

North Coast Regional Water Quality Control Board

March 1, 2013

Mr. Jim McIntosh
California Department of Transportation
1656 Union Street
Eureka, CA 95501

Dear Mr. McIntosh:

Subject: Notice of Coverage, General Waste Discharge Requirements for Discharges Associated with Transportation Structure Repainting Activities Order No. R1-2003-0041

File: Mendocino County General Order No. R1-2003-0041
WDID No. 1B13021RMEN

On November 28, 2012 and February 04, 2013, Jim McIntosh on behalf of the California Department of Transportation (Permittee), submitted a Report of Waste Discharge (ROWD) with a description of the proposed bridge painting project known as Jitney Gulch Bridge, in Mendocino County. The proposed bridge activities have the potential to impact water quality. Coverage under Order No. R1-2003-0041, *General Waste Discharge Requirements for Discharges Associated with Transportation Structure Repainting Activities* (WDR Order R1-2003-0041) is conditional upon the Regional Water Quality Control Board (Regional Water Board) receiving a project fee of \$8,154.47.

Based on our technical review of the ROWD, Regional Water Board staff has determined the proposed project qualifies for enrollment under WDR Order R1-2003-0041. As of the date of the Regional Water Board receiving the project fee, the Jitney Gulch Bridge project is covered under WDR Order No R1-2003-0041.

The Jitney Gulch Bridge's existing paint system consists of lead silicate chromate primer and green finish coat paint. Maintenance work that disturbs the existing paint system will produce debris containing heavy metals in amounts that could exceed the thresholds established in Title 8 and 22 of the California Code of Regulations.

Coverage under WDR Order R1-2003-0041 prohibits the discharge of waste to waters of the state (surface or ground water); and is issued for the threatened discharge of waste associated with bridge painting activities. Therefore, this approval is contingent on the Permittee's proposal that all debris produced during maintenance and repainting activities shall be fully contained and prevented from discharging to waters of the state or land areas outside of the containment structure.

DAVID M. NOHEN, CHAIR | MATTHIAS ST. JOHN, EXECUTIVE OFFICER

5550 Skylane Blvd., Suite A, Santa Rosa, CA 95403 | www.waterboards.ca.gov/northcoast

On December 14, 2012, the Permittee received coverage under the Regional Water Board Resolution No. R1-2012-0099, *Policy for Waiving Waste Discharge Requirements for Specific Types of Waste Discharge* (Categorical Waiver Policy) for maintenance work on several bridges in Mendocino County, including the Jitney Gulch Bridge. Part of the proposed maintenance work on the Jitney Gulch Bridge is to paint the newly installed steel elements, as well as blast clean and paint less than five square feet of the existing bridge structure. This letter serves to cover the blast cleaning and painting activities under WDR Order No. R1-2003-0041, while all other work is cover under the Categorical Waiver Policy.

Under WDR Order No. R1-2003-0041, the Permittee is required to take on monitoring and reporting responsibilities; these requirements are specified in Monitoring and Reporting Program (MRP) No. R1-2003-0041. Additionally, the Permittee shall complete the project as described in the November 28, 2012, and February 04, 2013, complete ROWD. A Water Pollution Control Plan must be submitted 30 days prior to commencement of the project as per section D.2 of WDR Order R1-2003-0041. As a condition of coverage under WDR Order R1-2003-0041, no staging, access, or parking areas may be located within, or immediately adjacent to waters of the state or waters of the United States. All exposed soils must be stabilized using a native seed mix or other method as approved by Regional Water Board Staff. Additionally, photographs must be taken during the main events of the project. The events requiring photo documentation are as follows:

1. Installation of best management practices (BMPs);
2. Abrasive blast cleaning activities;
3. Repainting activities; and
4. Project completion.

These photographs are required for the purpose of verifying compliance with WDR Order No. R1-2003-004. The photographs are to be submitted to the Regional Water Board within two weeks of the completion of the Project.

Please be aware that WDR Order No. R1-2003-0041 requires a permit fee be paid annually until the permit is terminated. Permit coverage will remain in place until coverage is terminated by Regional Water Board staff in writing. It is the Permittee's responsibility to request cancellation of the permit coverage as soon as the project is completed.

Please read and fully understand Order No. R1-2003-0041 and MRP Order No. R1-2003-0041. These documents can be found at:

http://www.waterboards.ca.gov/northcoast/board_decisions/adopted_orders/pdf/060403GeneralWDRsRepainting.pdf and

http://www.waterboards.ca.gov/northcoast/board_decisions/adopted_orders/pdf/060403GeneralWDRMR.pdf

If you have any questions, please contact Heidi Otten at (707) 576-2701 or heidi.otten@waterboards.ca.gov or Mona Dougherty at (707) 570-3761 or mona.dougherty@waterboards.ca.gov.

Sincerely,

Original Signed By

Matthias St. John
Executive Officer

130301_HMO_ef_JitneyGulchRepainting_EnrollLtr

Certified-Return Receipt Requested

California Regional Water Quality Control Board
North Coast Region

ORDER NO. R1-2003-0041

GENERAL WASTE DISCHARGE REQUIREMENTS
FOR DISCHARGES ASSOCIATED WITH TRANSPORTATION STRUCTURE
REPAINTING ACTIVITIES

All Counties

The California Regional Water Quality Control Board, North Coast Region (hereinafter Regional Water Board), finds that:

1. Section 13260(a) of the California Water Code (CWC) requires that any person discharging waste or proposing to discharge waste within any region, other than to a community sewer system, that could affect the quality of the waters of the state, file a Report of Waste Discharge (ROWD).
2. A “transportation structure” (hereinafter “structure”) is defined as a bridge, overhead, underpass, overcrossing, separation, viaduct, tunnel, or tube that when measured parallel to the roadway centerline has a length of more than 20 feet between the faces of the end abutments.
3. Discharges of waste to land associated with structure repainting activities have certain common characteristics, such as similar constituents, concentrations of constituents, and containment and disposal techniques. These types of discharges are appropriately regulated under General Waste Discharge Requirements (General WDRs).
4. These General WDRs are intended to regulate discharges of waste associated with structure repainting activities that may affect waters of the state for which a waiver of WDRs or an individual set of WDRs are not appropriate. Only entities generating waste discharges to land (hereinafter discharger) in amounts that may affect waters of the state shall be eligible for coverage under these General WDRs.
5. Waste produced from structure repainting activities includes: soluble surface contaminants, coatings, lead, rust, oil and grease, mill scale, paint, sharp edges and welds, visible dust, dirt, road film, soaps, wash water, construction debris, spent filters, vacuumed residues, demolition debris, soil, silt, and other organic and earthen material.

6. The existing paint system may contain lead, which requires 100% containment of both the paint debris and other waste material produced from operations. Washwater and any visible dust produced when the paint system is disturbed also shall be 100% contained. All waste material produced from structure repainting activities shall be stored at a designated Hazardous Materials Storage Area.
7. Lead is a toxic heavy metal pollutant and bioaccumulates in animal tissues. The U.S. Environmental Protection Agency's primary maximum contaminant level (MCL) for lead in drinking water is 15 parts per billion (ppb), with the MCL goal of 0 ppb. The U.S. Environmental Protection Agency Health Advisory lists lead as a probable human carcinogen. The Water Quality Control Plan for the North Coast Region states "All waters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in humans, plant, animal, or aquatic life."
8. Determinations of whether structure repainting activities should be covered by General WDRs, waiver of WDRs, or individual WDRs will be made on a case-by-case basis. In general, however, the Regional Water Board finds that discharges associated with structure repainting activities may affect waters of the state and are appropriate for coverage under General WDRs.
9. The Regional Water Board finds that structure repainting activities have a Threat to Water Quality and Complexity of 2-C as defined in the fee schedule listed in Section 2200 Title 23, California Code of Regulations (CCR).
10. This Order establishes minimum standards for discharges of waste associated with structure repainting activities. In the event of a conflict between the provisions of this Order and the Basin Plan, the more stringent provision prevails and the discharger shall comply with the more stringent standard.
11. The beneficial uses of all receiving waters in the North Coast Region may include some or all of the following:
 - a. municipal and domestic supply (MUN)
 - b. agricultural supply (AGR)
 - c. industrial service supply (IND)
 - d. industrial process (PROC)
 - e. groundwater recharge (GWR)
 - f. freshwater replenishment (FRSH)
 - g. navigation (NAV)
 - h. hydropower generation (POW)
 - i. water contact recreation (REC1)
 - j. noncontact water recreation (REC2)
 - k. commercial and sport fishing (COMM)
 - l. warm freshwater habitat (WARM)
 - m. cold freshwater habitat (COLD)
 - n. preservation of areas of special biological significance (BIOL)

- | | |
|---|---------|
| o. inland saline water habitat | (SAL) |
| p. wildlife habitat | (WILD) |
| q. preservation of rare and endangered species | (RARE) |
| r. marine habitat | (MAR) |
| s. migration of aquatic organisms | (MIGR) |
| t. spawning, reproduction, and/or early development | (SPWN) |
| u. shellfish harvesting | (SHELL) |
| v. estuarine habitat | (EST) |
| w. aquaculture | (AQUA) |
12. The beneficial uses for areal ground waters include:
- a. domestic water supply
 - b. agricultural water supply
 - c. industrial service supply
 - d. industrial process supply
13. This Order does not preempt or supersede the authority of municipalities, flood control agencies, or other local agencies to prohibit, restrict, or control discharges of waste subject to their jurisdiction.
14. The Regional Water Board, acting as the lead agency, has determined that structure repainting activities are categorically exempt from provisions of CEQA as a Class 1, Existing Facility, pursuant to Section 15301, Title 14, CCR. The Categorical Exemption covers new discharges of waste associated with structure repainting activities. New discharges of waste associated with structure repainting activities in compliance with this Order will not result in a significant impact on the environment.
15. This Order is consistent with the provisions of State Water Resources Control Board (State Water Board) Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California." The Order does not allow degradation of water quality.
16. The Regional Water Board has notified potential dischargers and all other known interested parties and agencies of its intent to prescribe WDRs for the discharge and has provided them with an opportunity to submit their written comments and recommendations.
17. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the proposed discharge.

THEREFORE, IT IS HEREBY ORDERED that dischargers of structure repainting waste, in order to meet the provisions contained in Division 7 of the CWC and regulations adopted thereunder, shall comply with the following:

A. APPLICATION PROCEDURES

1. Dischargers shall seek coverage under these General WDRs by filing: (1) a Report of Waste Discharge (Form 200) or an equivalent document; and (2) an annual fee.¹ The Regional Water Board staff will review the application and will make a preliminary determination of whether coverage under these General WDRs, individual WDRs, or a waiver of WDRs is appropriate.
2. Coverage under these Waste Discharge Requirements shall not take effect until: (1) the discharger's application is determined to be complete, and (2) the discharger has received written notification from the Executive Officer of the Regional Water Board (Executive Officer) stating that coverage under this order is appropriate. The Executive Officer shall not issue this notification upon finding that coverage of the project in question under this Order has caused or will likely cause significant public controversy. For such controversial projects, the determination of whether coverage under this Order is appropriate will be made by the Regional Water Board at a regularly scheduled board meeting.
3. A determination by the Executive Officer that a specific discharge is appropriately covered under these General WDRs creates no vested right to continued future coverage. The Regional Water Board may decide, based on good cause, to rescind coverage of a specific discharge under these General WDRs. Such a discharge may be eligible for coverage under a waiver of WDRs, another set of General WDRs, individual WDRs, and/or a National Pollutant Discharge Elimination System (NPDES) permit. If the Regional Water Board decides to regulate a discharge covered by these General WDRs, a waiver of WDRs, under another set of General WDRs, under individual WDRs and/or an NPDES permit, the applicability of these General WDRs to the discharge is immediately terminated on the date the coverage under the other set of General WDRs takes effect, or on the effective date of the waiver of WDRs, individual WDRs or NPDES permit.

B. DISCHARGE PROHIBITIONS

1. The discharge of any waste not specifically regulated by this Order is prohibited.
2. Creation of a pollution, contamination, or nuisance, as defined by Section 13050 of the California Water Code (CWC), is prohibited.
3. The discharge of waste to land that is not under the control of the discharger is prohibited, except as authorized under **C. SOLIDS DISPOSAL**.

¹ The annual fee for coverage corresponds to a Threat to Water Quality and Complexity of 2-C, as defined in the fee schedule listed in 23 CCR 2200. The annual fee for this category of discharge currently is \$2,025.

4. The discharge of any waste, treated or untreated, to surface waters, surface water drainage courses, or areas where the wastes could pass into surface waters is prohibited.
5. The operation of construction equipment in surface waters is prohibited.
6. The discharge of waste that is not authorized by these General WDRs or other Order or waiver by the Regional Water Board is prohibited.

C. SOLIDS DISPOSAL

1. Solid waste removed from the job site shall be disposed at a legal point of disposal, and in accordance with the provisions of Title 27, Division 2, Subdivision 1, CCR or as waived pursuant to Section 13269 of the CWC.

D. GENERAL PROVISIONS

1. Fuel/Toxic Materials Storage

The storage and use of any fuels, oils or toxic substances at the project location or offsite staging areas shall be managed to prevent discharges of waste. All spills and leaks shall be cleaned up immediately and all contaminated materials shall be disposed at an approved disposal site.

2. Water Pollution Control Plan

The discharger shall submit a Water Pollution Control Plan at least thirty days prior to commencement of the project. The plan shall describe the chronology of construction activities for this project and Best Management Practices to be employed.

3. Waste Disposal

Excess earthen materials, demolition materials and organic material generated during the project shall be disposed at a legal point of disposal and in accordance with provisions of Title 27, Division 2, Subdivision 1, CCR. If a disposal site is to be used that has not been previously approved by a Regional Water Board, the discharger shall obtain approval of the new disposal site at least 30 days prior to initiation of proposed work.

4. Operation and Maintenance

The discharger shall properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with conditions of this Order. The discharger shall keep in a state of readiness all systems necessary to achieve compliance with the conditions of this Order. All systems, both those in service and in reserve, shall be inspected and maintained on a regular basis. Records shall be kept of the inspections and maintenance and made available to the Regional Water Board.

5. Availability

The discharger shall ensure that all site-operating personnel are familiar with the contents of this Order and shall maintain a copy of this Order at the site.

6. Modification

Prior to any modifications of the discharger's facility which would result in a material change in the quality or quantity of waste treated or discharged, or any material change in the location of discharge, the discharger shall report all pertinent information in writing to the Regional Water Board and obtain confirmation from the Regional Water Board that such modifications do not disqualify the discharger from coverage under these General WDRs. Either confirmation or new WDRs shall be obtained before any modifications are implemented.

7. Waste Containment

The discharger shall have an engineer monitoring the site to ensure the effectiveness of the containment system. The system shall be approved by the site engineer prior to commencement of work by the contractor. The site engineer also shall be responsible for assuring compliance with this Order. The discharger shall establish a liaison contact with Regional Water Board staff for the purpose of assuring that compliance with this Order is maintained. A list of designated liaison personnel, addresses, telephone numbers, and specific area(s) of responsibility shall be submitted one month prior to commencement of the construction.

8. Notification

The Regional Water Board's Executive Officer shall be notified immediately of any failure of the waste containment facilities. Such failure shall be promptly corrected in accordance with the requirements of this Order.

9. Permit Responsibility

This Order does not relieve the discharger from responsibility to obtain other necessary local, state, and federal permits to construct facilities necessary for compliance with this Order, nor does this Order prevent imposition of additional standards, requirements, or conditions by any other regulatory agency.

10. Storm Water

If land disturbance (excluding agricultural activity) is one acre or more, the applicant must apply for a Construction Activities Storm Water Permit prior to commencement of construction. If storm water runoff from any industrial processing area is to be discharged to any surface water, coverage under the National Pollution Discharge Elimination System (NPDES) General Permit No. CAS000001-Discharges Of Storm Water Associated With Industrial Activities Excluding Construction Activities Permit will be required.

11. Inspections

The discharger shall allow the Regional Water Board or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

- a. enter upon the premises where a regulated facility or activity is located or conducted or where records are required to be kept under the conditions of this Order;
- b. have access to and copy at reasonable times any records required to be kept under the conditions of this Order;
- c. inspect, at reasonable times, any facilities, equipment, practices, or operations regulated or required under this Order; and
- d. sample, photograph, video record, and/or monitor at reasonable times, for the purposes of assuring compliance with this Order or as otherwise authorized by the CWC, any substances or parameters at this location.

12. Periodic Review

The Regional Water Board will review this Order periodically and will revise this Order when necessary.

13. Severability

Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

14. Change in Ownership

In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the following items by letter, a copy of which shall be forwarded to the Regional Water Board:

- a. existence of this Order, and
- b. the status of the dischargers' annual fee account

15. Vested Rights

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from his liability under federal, state, or local laws, nor create a vested right for the discharger to continue the waste discharge.

16. Order Termination

After notice and opportunity for a hearing, coverage of an individual discharge under this Order may be terminated or modified for cause, including but not limited to the following:

- a. violation of any term or condition contained in this Order;
- b. obtaining this Order by misrepresentation or failure to disclose all relevant facts;
- c. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- d. a change in a wastewater treatment system to a configuration that is not eligible for coverage under this Order;
- e. violation of any term or condition contained in this Order;
- f. obtaining this Order by misrepresentation or failure to disclose all relevant facts;
- g. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- h. a change in the discharge that is not eligible for coverage under this Order.

17. Compliance

The discharger shall comply with all of the conditions of this Order. Any noncompliance with this Order constitutes a violation of the Porter-Cologne Water Quality Control Act and/or Basin Plan and is grounds for an enforcement action.

18. Liability

The Regional Water Board may impose administrative civil liability, may refer a discharger to the State Attorney General to seek civil monetary penalties, may seek injunctive relief, or take other appropriate enforcement action as provided in the California Water Code or federal law for violation of State Water Board or Regional Water Board orders.

19. Monitoring

The discharger shall comply with Contingency Planning and Notification Requirements Order No. 74-151 and with Monitoring and Reporting Program No. R1-2003-0041 and any modifications to these documents as specified by the Regional Water Board Executive Officer. Such documents are attached to this Order and incorporated herein. Chemical analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services.

20. Signatory Requirements

- a. All Report of Waste Discharge applications submitted to the Regional Water Board shall be signed by either the chief executive officer of the agency or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- b. Reports required by this Order and other information requested by the Regional Water Board shall be signed by either the chief executive officer of the agency or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency or may be signed by a duly authorized representative provided:
 - i. the authorization is made in writing by a person described in paragraph (a) of this provision;
 - ii. the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity or an individual or position having overall responsibility for environmental matters for the agency; and
 - iii. the written authorization is submitted to the Regional Water Board prior to or together with any reports, information, or applications signed by the authorized representative.
- c. Any person signing a document under paragraph (a) or (b) of this provision shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the

information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

21. Analyses

Unless otherwise approved by the Regional Water Board’s Executive Officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of “Guidelines Establishing Test Procedures for Analysis of Pollutants,” promulgated by the U.S. Environmental Protection Agency (U.S. EPA.

22. Record Keeping

The discharger shall retain records of all monitoring information including all calibration and maintenance records, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained for a minimum of three years from the date of the sample, measurement, or report. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Executive Officer.

23. Record Request

The discharger shall furnish, within a reasonable time, any information the Regional Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the discharger’s coverage under this Order. The Discharger shall also furnish to the Regional Water Board, upon request, copies of all records required to be kept by this Order.

24. Noncompliance

In the event the discharger is unable to comply with any of the conditions of this Order due to:

- a. breakdown of equipment;
- b. accidents caused by human error or negligence; or
- c. other causes such as acts of nature;

the discharger shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the noncompliance and shall indicate the steps taken to correct the problem and the dates thereof, and the steps

being taken to prevent the problem from recurring.

25. Planned Changes

The discharger shall file with the Regional Water Board an application at least 120 days before making any material change or proposed change in the character, location or volume of the discharge.

26. Other Information

When the discharger becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application, or in any report to the Regional Water Board, the discharger shall promptly submit such facts or information.

27. False Reporting

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Order, including monitoring reports or reports of compliance or noncompliance shall be subject to enforcement procedures as identified in the Order and/or in these Standard Provisions.

28. Anticipated Noncompliance

The discharger shall give advance notice to the Regional Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with waste discharge requirements.

E. ENFORCEMENT PROVISIONS

1. The provisions in this enforcement section shall not act as a limitation on the statutory or regulatory authority of the Regional Water Board.
2. Any violation of this Order constitutes violation of the California Water Code and regulations adopted thereunder and is the basis for enforcement action, termination of the Order, revocation and reissuance of the Order, denial of an application for reissuance of the Order or a combination thereof.
3. It shall not be a defense for a discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order.

Expiration

Individual coverage by this Order expires upon completion of the structure repainting project or five years from the date of coverage under the General WDRs, whichever occurs first. If the discharger wishes to continue an activity regulated by this Order after the expiration date of coverage by this Order, the discharger shall apply for and obtain new Waste Discharge Requirements. A new report of waste discharge must be submitted to the Regional Water Board at least 30 days in advance of new coverage by Waste Discharge Requirements.

Certification

I, Susan Warner, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, North Coast Region, on May 15, 2003.

Susan A. Warner
Executive Officer

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2003-0041

FOR

DISCHARGES ASSOCIATED WITH TRANSPORTATION STRUCTURE
REPAINTING ACTIVITIES

All Counties

MONITORING

The following monitoring program shall be conducted whenever there is any waste discharge from transportation structure repainting activities to a surface water or locations where these materials could pass into surface waters. Fugitive sandblasting dust that escapes from the sandblasting containment system constitutes a waste discharge. The sampling schedule shall continue until the discharge stops. Samples of the affected waterway in the area of the discharge shall be collected immediately downstream as well as immediately upstream from the affected area and shall be analyzed for the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Frequency</u>
Turbidity	NTU's	Grab	Not less than once every four hours
Lead	ppb	Grab	Not less than once every four hours

REPORTING

Monitoring reports shall be submitted to the Regional Water Board monthly by the first day of the second month following the monitoring period. Monitoring reports shall include all laboratory analyses reports. If no discharge occurs, no monitoring report need be submitted.

In reporting monitoring data, the discharger shall arrange the data in tabular form on an 8 1/2 by 11-inch sheet so the date, constituents, and concentrations are readily discernible. The monitoring reports shall contain new data as well as historical data. The monitoring reports shall contain a detailed map showing the location of sample collection points. If the discharger is unable to collect samples for any reason, the monitoring report shall so indicate. The monitoring data and any necessary narrative reports shall be properly titled and referenced to this Order and shall be submitted to the Regional Water Board and certified to be true and correct by penalty of perjury.

NOTIFICATION

In the event of a discharge to a surface water or locations where these materials could pass into surface waters, the discharger shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the noncompliance and shall indicate the steps taken to correct the problem, the dates thereof, and the steps being taken to prevent the problem from recurring.

Ordered by: _____

Susan A. Warner
Executive Officer

May 15, 2003

North Coast Regional Water Quality Control Board

December 14, 2012

Mr. James McIntosh
California Department of Transportation
1656 Union Street
Eureka, CA 95501

Dear Mr. McIntosh:

Subject: Fifteen Transportation Structure Maintenance Projects on State Route 101 in Mendocino County subject to coverage under the Policy for Waiving Waste Discharge Requirements

File: CDOT Mendocino County Bridge Maintenance Orders

North Coast Regional Water Quality Control Board (Regional Water Board) staff has completed review of the report of waste discharge (ROWD) received November 28, 2012, and supplemental information submitted December 6, 2012, describing fifteen transportation structure maintenance projects on State Routes 101 and 271 (hereinafter Projects) located in Mendocino County. These transportation structures include Arnold Bridge and Overhead (MEN 101-postmile (PM) 57.7), Route 271/101 Separation-Scandia South Leggett (MEN 101-PM R89.6), Jitney Gulch (MEN 101-PM 93), Rock Creek (MEN 101-PM 93.7), Bridges Creek (MEN 101-PM 97.5), South Fork Eel River (1) (MEN 101-PM 99.5), South Fork Eel River (2) (MEN 101-PM 100.0), Route 271/101 Separation- Reynolds (MEN 101-PM R101.9), South Fork Eel River (3)(MEN 101-PM R102.7), South Fork Eel River (4)(MEN 101-PM R106.6), Big Dann Creek (MEN 271-PM 4.9), Cedar Creek (MEN 271-PM 5.2), McCoy Creek (MEN 271-PM 17.9), South Fork Eel River (5)(MEN 271-PM 22.6), and Route 101/271 Separation- Piercy (MEN 101-PM R103.81).

The ROWD was submitted on behalf of the owner and operator of the Projects, the California Department of Transportation (hereinafter Permittee). Based on technical review of the ROWD, Regional Water Board staff has determined that the Projects qualify for coverage under the specific waiver category: "Maintenance Activities on Transportation Structures" under Regional Water Board Resolution No. R1-2012-0099, *Policy for Waiving Waste Discharge Requirements for Specific Types of Waste Discharge* (Categorical Waiver Policy) and as such, the action of issuing waste discharge requirements (WDRs) is waived.

The following maintenance activities are to take place on these transportation structures:

1. Arnold Bridge and Overhead
 - a. Replacement of seals at bridge expansion joints; and

- b. Repair of deteriorating Asphalt Concrete (AC) overlay and treatment of bridge decks with methacrylate.
2. Route 271/101 Separation-Scandia South Leggett
 - a. Spot repair of degraded concrete (spall).
3. Jitney Gulch
 - a. Replacement of seals at bridge expansion joints;
 - b. Replacement of elastomeric bearing pads; and
 - c. Repair of deteriorating Asphalt Concrete (AC) overlay and treatment of bridge decks with methacrylate.
4. Rock Creek
 - a. Replacement of seals at bridge expansion joints; and
 - b. Apply Silane to seal cracks on bridge structure.
5. Bridges Creek
 - a. Repair of deteriorating Asphalt Concrete (AC) overlay and treatment of bridge decks with methacrylate; and
 - b. Replace high density polyester overlay.
6. South Fork Eel River (1)
 - a. Repair of deteriorating Asphalt Concrete (AC) overlay and treatment of bridge decks with methacrylate.
7. South Fork Eel River (2)
 - a. Repair of deteriorating Asphalt Concrete (AC) overlay and treatment of bridge decks with methacrylate.
8. Route 271/101 Separation-Reynolds
 - a. Repair of deteriorating Asphalt Concrete (AC) overlay and treatment of bridge decks with methacrylate.
9. South Fork Eel River (3)
 - a. Replacement of seals at bridge expansion joints; and
 - b. Repair of deteriorating Asphalt Concrete (AC) overlay and treatment of bridge decks with methacrylate.
10. South Fork Eel River (4)
 - a. Replacement of seals at bridge expansion joints.
11. Big Dann Creek
 - a. Spot repair of degraded concrete (spall); and
 - b. Repair rail damages.
12. Cedar Creek
 - a. Spot repair of degraded concrete (spall).
13. McCoy Creek
 - a. Repair of deteriorating Asphalt Concrete (AC) overlay and treatment of bridge decks with methacrylate.
14. South Fork Eel River (5)
 - a. Replacement of seals at bridge expansion joints; and
 - b. Spot repair of degraded concrete (spall).
15. Route 101/271 Separation-Piercy
 - a. Repair of deteriorating Asphalt Concrete (AC) overlay and treatment of bridge decks with methacrylate.

All work will be done from the bridge decks and within lane closures. None of the maintenance work will involve ground disturbing activities, although temporary Construction Area Signs will result in minor vegetation disturbance. All staging and equipment storage will be within or on existing paved surfaces or vegetated gravel pullouts. Where necessary, deck drains will be covered and measures will be taken to assure that shot/sandblasting residue, concrete grindings, Silane, methacrylate, and any other solid or liquid waste is fully contained.

Technical review of the submitted ROWD indicates that the projects are consistent with the North Coast Region's Water Quality Control Plan for the North Coast Region (Basin Plan) and meets the requirements of the Categorical Waiver Policy.

As a condition of coverage under the Categorical Waiver Policy, the Permittee shall complete the Projects as described in the November 28, 2012 ROWD and supplemental information submitted December 6, 2012, including using all proposed Best Management Practices (BMPs), containing all waste, and notifying Regional Water Board staff of the commencement and completion of the Projects. If the Projects are modified by Caltrans or their contractor in a way that may impact waters of the state, Caltrans must notify the Regional Water Board immediately.

The Categorical Waiver Policy is enclosed for your convenience. Coverage under this Policy will remain in place until coverage is terminated by Regional Water Board staff in writing or in five years from the date of this letter.

If you have any questions, please contact Heidi Otten at Heidi.Otten@waterboards.ca.gov or (707) 576-2701 or me at Mona.Dougherty@waterboards.ca.gov or (707) 570-3761.

Sincerely,

Original Signed By

Mona Dougherty
Senior Water Resource Control Engineer

121214_HMO_ef_15BridgesinMendo_WaiverLtr

Enclosures: Regionwide Policy for Waiving Waste Discharge Requirements for Specific Types of Waste Discharge R1-2012-0099

California Regional Water Quality Control Board
North Coast Region

Resolution No. R1-2012-0099
(Renewal of Order No. R1-2007-0098)

Policy for Waiving Waste Discharge Requirements
for Specific Types of Waste Discharge

Regionwide

WHEREAS, the California Regional Water Quality Control Board, North Coast Region (hereinafter Regional Water Board) finds that:

1. California Water Code Section 13260(a) requires that any person discharging waste, or proposing to discharge waste within any region that could affect the quality of the waters of the state, other than into a community sewer system, shall file with the appropriate regional water board a report of the discharge ("report of waste discharge" or "ROWD") containing the information that may be required by the regional water board; and
2. The Regional Water Board has a statutory obligation, pursuant to California Water Code Section 13269(a), to prescribe waste discharge requirements except where the Regional Water Board finds that a waiver of waste discharge requirements for a specific discharge or type of discharge is consistent with the Water Quality Control Plan for the North Coast Region (Basin Plan) and is in the public interest; and
3. California Water Code Section 13269(b) provides that any such waiver of waste discharge requirements shall be conditional; may be terminated at any time by the Regional Water Board; and must be renewed every five years; and
4. The Regional Water Board, in accordance with California Water Code Section 13269, waived waste discharge requirements for certain categories of discharge as set forth in Regional Water Board Resolution No. R1-2007-0098, Policy for Waiving Waste Discharge Requirements for Specific Types of Waste Discharge ("Categorical Waiver") on December 6, 2007; and
5. Under the California Environmental Quality Act (Public Resources Code section 21000 et seq.) (CEQA), the renewal of the categorical waiver is a "project" and the Regional Water Board is the lead agency responsible for approving that project; and
6. Section 15061(b)(3) of the CEQA Guidelines (section 15000 et seq of title 14 of the California Code of Regulations) allows a lead agency to find a project exempt from

CEQA if “it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment;” and

7. Section 15061(b)(3) of the CEQA Guidelines (section 15000 et seq of title 14 of the California Code of Regulations) allows a lead agency to find a project exempt from CEQA if it consists of the repair or maintenance of an existing public or private structure involving no expansion of use beyond that existing at the time of the lead agency’s determination; and
8. The Regional Water Board can see with certainty that readoption of the categorical waivers set out in R1-2007-0098 will not have any effect on the environment because the environmental baseline, against which the Regional Water Board considers the environmental impacts of a project, includes the existing categorical waivers; and
9. The Regional Water Board can see with certainty that the addition of the waiver category of *Maintenance Activities on Transportation Structures* will not have any effect on the environment because the activity will take place on an existing structure and the conditions of waiver category restrict any discharge of pollutants; and
10. The Regional Water Board has notified interested parties of its intent to renew and modify the Categorical Waiver. The Regional Water Board, in a public hearing on December 6, 2012, heard and considered all comments pertaining to this amendment.

THEREFORE BE IT RESOLVED, that the Regional Water Board, based on the aforementioned public hearing and review of Resolution R1-2007-0098, finds that waivers of waste discharge requirements for the specific categories of waste discharge identified herein in Attachment A of this Resolution are consistent with the Basin Plan and in the public interest provided that all dischargers:

- (a) comply with all applicable provisions of the Water Quality Control Plan for the North Coast Region (Basin Plan);
- (b) comply with the conditions for waivers of waste discharge as set forth herein;
- (c) file with the Regional Water Board, or with the appropriate permitting agency by written agreement with the Regional Water Board, a ROWD, or functional equivalent, to demonstrate that compliance with the waiver conditions specified herein can be achieved; and

- (d) comply with applicable State Water Resources Control Board policies including, but not limited to, Resolution 68-16 relating to maintaining high quality waters in California.

BE IT FURTHER RESOLVED, that the Regional Water Board finds, after reviewing Resolution No. R1-2007-0098, that the existing list of categorical waivers and the new waiver category of *Maintenance Activities on Transportation Structures*, are appropriate and the discharges for which these categorical waivers have been established should not be subject to general or individual waste discharge requirements.

BE IT FURTHER RESOLVED, that the Regional Water Board, in accordance with CEQA and the CEQA Guidelines, determines that because the proposed project is to renew the categorical waivers previously contained in Resolution No. R1-2007-0098, and to add the waiver category of *Maintenance Activities on Transportation Structures* that requires implementation of best management practices to prevent any pollutant discharge to surface waters or land; there is no possibility that the project will have a significant effect on the environment, and is, therefore, exempt from CEQA.

BE IT FURTHER RESOLVED, that this Resolution shall serve as a certificate of determination that the project is exempt from CEQA, and the Regional Water Board directs the Executive Officer to file a notice of such determination with the appropriate agencies.

BE IT FURTHER RESOLVED, that pursuant to California Water Code Section 13269, and subject to the conditions set forth in this Resolution, the Regional Water Board waives the issuance of waste discharge requirements for the specific categories of waste discharge shown in Attachment A of this Resolution, except for those waste discharges for which waste discharge requirements have been adopted.

BE IT FURTHER RESOLVED, that a person whose waste discharge requirements have been waived pursuant to this Resolution, in accordance with the following general conditions, shall:

- (a) comply with all applicable provisions of the Basin Plan for the North Coast Region;
- (b) discharge only in accordance with a complete ROWD or equivalent;
- (c) not create a pollution, contamination, or nuisance, as defined by California Water Code Section 13050;
- (d) not discharge any waste not specifically regulated by the waivers described herein;

- (e) implement a monitoring and reporting program, unless this requirement is waived as not in the public interest, according to criteria to be subsequently developed by the Regional Water Board Executive Officer; and
- (f) allow Regional Water Board staff reasonable access onto the affected property for the purpose of performing an inspection to determine compliance with waiver conditions.

BE IT FURTHER RESOLVED, that the additional conditions specified herein for waivers of specific waste discharges or categories of waste discharge, as shown in Attachment A to this Resolution, incorporated herein by reference, are hereby adopted.

BE IT FURTHER RESOLVED, that the discharge of any waste not specifically regulated by the categorical waivers described herein is prohibited.

BE IT FURTHER RESOLVED, that any person seeking coverage for any specific waste discharge or category of waste discharge specified in this Resolution shall file a full and complete ROWD or its functional equivalent to the Regional Water Board or to the appropriate permitting agency by written agreement with the Regional Water Board. When submitted to the Regional Water Board, such ROWD or equivalent must be certified and accompanied by the requisite fee pursuant to the California Water Code Section 13260.

BE IT FURTHER RESOLVED, that, pursuant to California Water Code Section 13269, the waiver of waste discharge requirements for the categories of waste specified herein shall not exceed five years in duration.

BE IT FURTHER RESOLVED, that, in compliance with California Water Code Section 13269, this Resolution and the categorical waivers described herein, shall be reviewed and amended as necessary no later than five years from the date of adoption of this Resolution.

BE IT FURTHER RESOLVED, that, in compliance with California Water Code Section 13269, the Executive Officer will develop and implement a program to require compliance with the conditions pursuant to which waste discharge requirements are waived by this Resolution.

BE IT FURTHER RESOLVED, that this action waiving the issuance of waste discharge requirements for certain specific types of discharges (a) is conditional, (b) may be terminated at any time, (c) does not permit an illegal activity, (d) does not preclude the need for permits which may be required by other local or governmental agencies, and (e) does not preclude the Regional Water Board from administering enforcement remedies (including civil penalties) pursuant to the California Water Code.

BE IT FURTHER RESOLVED, that a waiver of waste discharge requirements for a type of discharge may be superseded by the adoption by the State Water Resources Control Board or Regional Water Board of waste discharge requirements or general waste discharge requirements for that type of discharge.

BE IT FURTHER RESOLVED, that, as provided by California Water Code Section 13350(a), any person may be liable for civil penalties if that person in violation of a waiver condition or certification, intentionally or negligently discharges waste, or causes waste to be deposited where it is discharged, into the waters of the state and creates a condition of pollution or nuisance.

Certification:

I, Matthias St. John, Executive Officer do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, North Coast Region, on December 6, 2012.



Matthias St. John
Executive Officer

ATTACHMENT A
CATEGORICAL WAIVERS ESTABLISHED BY THE ADOPTION OF NORTH COAST
REGIONAL WATER QUALITY CONTROL BOARD RESOLUTION NO. R1-2012-0099

Waiver Category	Waiver Conditions (Note General Waiver Conditions Below)**)
Test Pumping of Fresh Water Wells	Residual chlorine is not present and no other pollutants are present or added, and the well is not part of a groundwater cleanup project.
Discharge from Flushing of Domestic Water Lines and Tanks	Residual chlorine is not present and no toxic pollutants are present. Best Management Practices will be used to control potential erosion.
Discharge from Hydrostatic Test Lines	Project is not expected to have a significant water quality impact, no residual chlorine is present, and Best Management Practices will be used to control potential erosion.
Air-conditioner, Non-contact Cooling and Elevated Temperature Water	Discharge to land only and not to a storm drain system, where no water quality problems are anticipated and discharge rates do not result in erosion or any water quality impact.
Minor Dredging and Fill Operations	Discharges are short-term, do not result in net loss of wetlands or beneficial uses, spoil or fill is non-toxic and discharged to land, and operations are not governed by General WDRs.
Confined Animal Wastes	Discharger complies with the California Code of Regulations, Title 27, Division 2, Subdivision 1, Chapter 7, Subchapter 2, Article 1. Confined animal waste operations requiring NPDES permits under federal Clean Water Act regulations and cow dairies constructed and operating as of January 19, 2012, that have subsequently undergone no expansion in size of their facilities are subject to regulation under the North Coast Regional Water Board Dairy & Concentrated Animal Feeding Operations (CAFO) Program and are not eligible for a waiver under this policy.
Storm Water Runoff	Storm water runoff is not governed by statewide regulations, no water quality problems are anticipated and no NPDES permit is required.
Non-Commercial One-Time Sand and Gravel Operations and Processing	Operations wash waters are confined to land and stockpiles are protected from storm flows. Projects shall comply with applicable local policies. Commercial operations are subject to WDRs and/or storm water regulations, and are not eligible for this waiver.
Swimming Pool Discharges	Discharges to land only, where beneficial water uses will not be affected. General permit shall be used for other discharges as appropriate.

Waiver Category	Waiver Conditions (Note General Waiver Conditions Below)**
Food Processing Wastes Spread on Land	Small, seasonal, applied at agronomic rates and confined to land where no water quality problems are anticipated.
Agricultural Commodity Wastes	Small, seasonal, applied at agronomic rates and confined to land where no water quality problems are anticipated.
Industrial Wastes Utilized for Soil Amendments	Industry certifies inert, non-toxic and non-hazardous content, no water quality problems are anticipated, and discharger complies with California Code of Regulations, Title 27, Division 2, Subdivision 1.
Individual Sewage Disposal Systems and Small Community, Commercial, Institutional, and Industrial Operations which Utilize On-site Wastewater Treatment and Disposal for Domestic Wastes	Project has approval of local permitting agencies and complies with the Basin Plan, including the Basin Plan Policy on the Control of Water Quality with Respect to On-site Waste Treatment and Disposal Practices.
Flow-through Seawater Systems and Aquacultural Operations	Project complies with the Basin Plan, no water quality problems are anticipated (including any problems resulting from the discharge of hormones, biocides, parasites, larvae and antibiotics) and no federal NPDES permit is required.
Use of Reclaimed Wastewater for Soil Compaction or Dust Control, and other Construction Purposes	Use is limited to dry periods or short duration, complies with the Basin Plan, and complies with statewide reclamation requirements.
Lake or Reservoir Drainage Projects	Pollutants are not present, discharge is to land only and no water quality impacts are anticipated.
Low-volume, Non-contaminated Wastewaters Generated by the Installation and Purging of Monitoring Wells During Groundwater Contamination Investigations	The discharger files a ROWD which provides the technical information necessary to demonstrate that the discharge will not reach surface waters, will prevent environmental contamination and pollution or nuisance, and is contained on property controlled by the discharger.

Waiver Category	Waiver Conditions (Note General Waiver Conditions Below)**
Discharge Associated with the Incineration of Soils Contaminated with Petroleum Hydrocarbons	The discharger files a ROWD which provides the technical information necessary to demonstrate that the discharge will not reach surface waters, will prevent environmental contamination and pollution or nuisance, and is contained on property controlled by the discharger.
Pumped/Drained Water from Storage Tank Excavations	Water must be uncontaminated. Location of disposal or reuse must be identified.
Soil Stabilizing Agents	Used for beneficial purposes such as dust control, where water quality will not be adversely impacted and where stabilizing agents cannot reach State waters.
Winery Operations	Non-commercial wineries producing less than 200 gallons of wine per year provided that discharge is to land and no adverse water quality impacts are anticipated. (Note: Commercial wineries and non-commercial wineries producing over 200 gallons of wine per year are now regulated by General Waste Discharge Requirements for Discharges of Winery Wastes to Land.)
Maintenance Activities on Transportation Structures	The use of effective Best Management Practices that prevent any discharge of pollutants to surface waters or land.

**** General Waiver Conditions Applicable to All Waiver Categories:** In addition to the waiver conditions specific to each waiver category, the following general waiver conditions apply to all waiver categories. The discharger: (1) shall comply with all applicable provisions of the Water Quality Control Plan for the North Coast Region; (2) shall discharge only in accordance with a complete ROWD or equivalent; (3) shall not create a pollution, contamination, or nuisance, as defined by Section 13050 of the California Water Code; (4) shall not discharge any waste not specifically regulated by the waivers described herein; (5) shall implement a monitoring and reporting program unless this requirement is waived as not against the public interest, to be subsequently developed by the Regional Water Board Executive Officer; and (6) shall allow Regional Water Board staff reasonable access onto the affected property for the purpose of performing an inspection to determine compliance with waiver conditions.

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

Mendocino County Bridges Mendocino County, California

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 3
703 B STREET, P.O. BOX 911
MARYSVILLE, CALIFORNIA 95901**



PREPARED BY:

**GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742**



**GEOCON PROJECT NO. S9300-06-194
TASK ORDER NO. 194
E-FIS 01 0002 0281 1 (EA 01-0A4201)
CONTRACT NO. 03A1368**

SEPTEMBER 2012



Project No. S9300-06-194
September 26, 2012

Mark Melani, Task Order Manager
Caltrans District 3
703 B Street
Marysville, California 95901

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
MENDOCINO COUNTY BRIDGES
CONTRACT NO. 03A1368, E-FIS 01 0002 0281 1 (EA 01-0A4201)
TASK ORDER NO. 194

Dear Mr. Melani:

In accordance with California Department of Transportation Contract No. 03A1368 and Task Order No. 194 (EA 01-0A4201), we have performed an asbestos and lead-containing paint survey of the subject bridges. The scope of services included surveying 15 bridge structures located along Highways 101 and 271 for suspect asbestos-containing materials and lead-containing paint, collecting bulk samples, and submitting the samples to laboratories for analyses.

The accompanying report summarizes the services performed and laboratory analysis.

The contents of this report reflect the views of Geocon Consultants, Inc., who are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if you have questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.


David A. Watts, CAC No. 98-2404
Senior Project Scientist


John E. Juhrend, PE, CEG
Project Manager

(2 + 2 CDs) Addressee

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2. Site Plan

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1. Summary of Asbestos Analytical Results
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APPENDICES

- A. Caltrans Bridge List
- B. Analytical Laboratory Reports and Chain-of-custody Documentation

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

1.0 INTRODUCTION

This asbestos and lead-containing paint (LCP) survey report was prepared by Geocon Consultants, Inc. under Caltrans Contract No. 03A1368, Task Order No. 194 (TO-194), and EA No. 01-0A4201.

1.1 Project Description

The project consists of 15 bridges located on Highways 101 and 271 in Mendocino County, California. We performed asbestos and LCP survey activities at the structures. The approximate bridge locations are depicted on the Vicinity Map, Figure 1. The approximate sample locations are depicted on the Site Plan, Figure 2. A list of the bridges included in our survey is in Appendix A.

1.2 General Objectives

The purpose of the scope of services outlined in TO-194 was to determine the presence and quantity of asbestos and LCP at the project location prior to planned improvements. The information obtained from this investigation will be used by Caltrans for waste profiling, determining California Occupational Safety and Health Administration (Cal/OSHA) applicability, and coordinating asbestos and LCP disturbance activities.

It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with U.S. Department of Housing and Urban Development (HUD) guidelines.

2.0 BACKGROUND

2.1 Asbestos

The Code of Federal Regulations (CFR), 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Federal Occupational Safety and Health Administration (FED OSHA) classify asbestos-containing material (ACM) as any material or product that contains *greater than* 1% asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

- **Category I** – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- **Category II** – all remaining types of nonfriable asbestos-containing material not included in Category I that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated asbestos-containing material (RACM), a hazardous waste when friable, is classified as any manufactured material that contains *greater than* 1% asbestos by dry weight *and* is:

- Friable (can be crumbled, pulverized, or reduced to powder by hand pressure); or
- Category I material that has become friable; or
- Category I material that has been subjected to sanding, grinding, cutting, or abrading; or
- Category II nonfriable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, CCR §1529. Typically, removal or disturbance of more than 100 square feet of material containing more than 0.1% asbestos must be performed by a registered asbestos abatement contractor, but associated waste labeling is not required if the material contains 1% or less asbestos. When the asbestos content of a material exceeds 1%, virtually all requirements of the standard become effective.

Materials containing more than 1% asbestos are also subject to NESHAP regulations (40 CFR Part 61, Subpart M). RACM (friable ACM and nonfriable ACM that will become friable during demolition operations) must be removed from structures prior to demolition. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in structures during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be addressed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

With respect to potential worker exposure, notification, and registration requirements, Cal/OSHA defines asbestos-containing construction material (ACCM) as construction material that contains more than 0.1% asbestos (Title 8, CCR 341.6).

2.2 Lead Paint

Construction activities (including demolition) that disturb materials or paints containing *any* amount of lead are subject to certain requirements of the Cal/OSHA lead standard contained in Title 8, CCR, §1532.1. Deteriorated paint is defined by Title 17, CCR, Division 1, Chapter 8, §35022 as a surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a substrate. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Intact LCP on a component is currently accepted by most landfills and recycling facilities; however, contractors are responsible for segregating and characterizing waste streams prior to disposal.

For a solid waste containing lead, the waste is classified as California hazardous when: 1) the total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the soluble lead content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) based on the standard Waste Extraction Test (WET). A waste has the potential for exceeding the lead STLC when the waste's total lead content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when total lead is detected at a concentration greater than or equal to 50 mg/kg, and assuming that 100 percent of the total lead is soluble, soluble lead analysis is required. Lead-containing waste is classified as "Resource, Conservation, and Recovery Act" (RCRA) hazardous, or Federal hazardous, when the soluble lead content equals or exceeds the Federal regulatory level of 5 mg/l based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability; however, for the purposes of this investigation, toxicity (i.e., lead concentration) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California-hazardous or RCRA-hazardous requires management as a hazardous waste.

Potential hazards exist to workers who remove or cut through LCP coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with lead-containing paint. Torching of these materials may produce lead oxide fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with LCP. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR, §1532.1.

3.0 SCOPE OF SERVICES

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2013), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California Department of Public Health Services (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2013), performed the asbestos and LCP surveys at the project location from August 6 through 13, 2012.

3.1 Asbestos

Suspect ACM were grouped into homogeneous areas with representative samples randomly collected from each. In addition, each potential ACM was evaluated for friability. A total of sixteen bulk asbestos samples representing eight suspect components were collected. Geocon observed no suspect asbestos materials on bridges 10-0030, 10-0031, 10-0036, 10-0037, or 10-0053. Consequently, we

collected no asbestos samples at those locations. Geocon also observed that the signage for bridges 10-0053 and 10-0126 incorrectly identifies these bridges as “1-53” and “10-32,” respectively.

Our procedures for inspection and sampling in accordance with TO-194 are discussed below:

- Collected bulk asbestos samples after first wetting friable materials with a light mist of water. The samples were then cut from the substrate and transferred to labeled containers. Note that when multiple samples were collected, the sampling locations were distributed throughout the homogeneous area (spaces where the material was observed).
- Relinquished bulk asbestos samples to EMSL Analytical, Inc., a California-licensed and Caltrans-approved subcontractor, for asbestos analysis in accordance with United States Environmental Protection Agency (EPA) Test Method 600/R-93/116 using polarized light microscopy (PLM) under chain-of-custody protocol. EMSL Analytical, Inc. is a laboratory accredited by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NIST-NVLAP) for bulk asbestos fiber analysis. The laboratory analyses were requested on a five-day turnaround time.

Bridge and asbestos sample identification numbers, material descriptions, approximate quantities, friability assessments, and photo references are summarized on Table 1. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

3.2 Lead Paint

Nineteen bulk paint samples were collected from suspect LCP observed at the project location. Our sampling procedures in accordance with TO-194 are discussed below:

- Collected bulk samples of suspect LCP using techniques presented in HUD guidelines. In addition, the painted areas were evaluated for evidence of deterioration such as flaking or cracking.
- Relinquished bulk LCP samples under chain-of-custody protocol to Advanced Technology Laboratories, a California-licensed and Caltrans-approved subcontractor, for lead analysis in accordance with EPA Test Method 6010B. Advanced Technology Laboratories is accredited by the DPH for lead analysis. The laboratory analyses were requested on a five-day turnaround time.

Bridge and paint sample identification numbers, descriptions, peeling and flaking quantities, and photo references are summarized on Table 2. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

4.0 INVESTIGATIVE RESULTS

4.1 Asbestos Analytical Results

Chrysotile asbestos at a concentration of 80% was detected in samples representing nonfriable sheet packing (used as barrier rail shims) on bridges 10-0091, 10-0093, 10-0135, and 10-0218. The approximate sheet packing quantities for the bridges were 20, 80, 10, and 60 square feet, respectively. A summary of the analytical laboratory test results for asbestos is presented on Table 1. Reproductions of the laboratory reports and chain-of-custody documentation are in Appendix B.

4.2 Paint Analytical Results

Samples representing intact white traffic striping observed during our survey exhibited total lead concentrations ranging from 2.5 to less than the laboratory practical quantitation limit (PQL) of 40 mg/kg. WET lead was not detected at or above the laboratory PQL of 0.50 mg/l.

Samples representing intact yellow traffic striping observed during our survey exhibited total lead concentrations ranging from 3.7 to 11,000 mg/kg. TCLP lead concentrations ranged from less than the laboratory PQL of 0.50 to 3.2 mg/l.

A sample representing approximately 100 square feet of deteriorated white paint observed on the Bridge 10-0036 barrier rails exhibited a total lead concentration of 410 mg/kg and a WET lead concentration of 0.88 mg/l.

A sample representing intact green paint observed on the Bridge 10-0037 structural steel members exhibited a total lead concentration of 1,700 mg/kg. TCLP lead was not detected at or above the laboratory PQL of 3.1 mg/l.

A sample representing intact green paint observed on the Bridge 10-0053 structural steel members exhibited a total lead concentration of 14,000 mg/kg and a TCLP lead concentration of 7.7 mg/l.

A sample representing intact gray paint observed on the Bridge 10-0179 structural steel members exhibited a total lead concentration of 66,000 mg/kg and a TCLP lead concentration of 95 mg/l.

A summary of the analytical laboratory test results for paint is presented on Table 2. Reproductions of the laboratory reports and chain-of-custody documentation are in Appendix B.

5.0 RECOMMENDATIONS

Based on our findings, we recommend the following:

5.1 Asbestos

NESHAP regulations do not require that asbestos-containing sheet packing (barrier rail shims, a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to demolition, renovation, or be treated as hazardous waste. The sheet packing may also be reused or stored for future use. However, activities causing *disturbance* to the sheet packing matrix (i.e., cutting, abrading, sanding, grinding, etc.) would require compliance with the Cal/OSHA asbestos standard contained in Title 8, CCR §1529. Contractors are responsible for informing the landfill of the contractor's intent to dispose of asbestos waste. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

Geocon also recommends the notification of contractors (that will be conducting renovation or related activities) of the presence of asbestos in their work areas (i.e., provide contractor[s] with a copy of this report and a list of asbestos removed during subsequent activities). Contractors not trained for asbestos work should be instructed not to disturb asbestos during their activities.

Written notification to the Mendocino County Air Quality Management District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not). In accordance with Title 8, CCR 341.9, written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain asbestos-related work.

5.2 Lead Paint

Geocon recommends composite sampling (asphalt, concrete, and traffic striping) of surface grindings associated with EA No. 01-0A4201. Geocon also recommends that traffic striping on all 15 bridges be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard contained in Title 8, CCR §1532.1.

White paint on the Bridge 10-0036 barrier rails sampled during our survey would not be classified as California or Federal hazardous based on lead content.

Green paint on the Bridge 10-0037 structural steel members sampled during our survey would be classified as California hazardous based on lead content if stripped, blasted, or otherwise separated from the substrate.

Green and gray paint on, respectively, the Bridge 10-0053 and 10-0179 structural steel members sampled during our survey would be classified as California and Federal hazardous based on lead content if stripped, blasted, or otherwise separated from the substrate.

We recommend that all paints at the project location (signage, graffiti, graffiti abatement, etc.) be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during maintenance, renovation, and demolition activities. This recommendation is based on LCP sample results and the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some paints. In accordance with Title 8, CCR, §1532.1(p), written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain lead-related work. Compliance and training requirements regarding construction activities where workers may be exposed to lead are presented in Title 8, CCR, §1532.1, subsections (e) and (l), respectively. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

6.0 REPORT LIMITATIONS

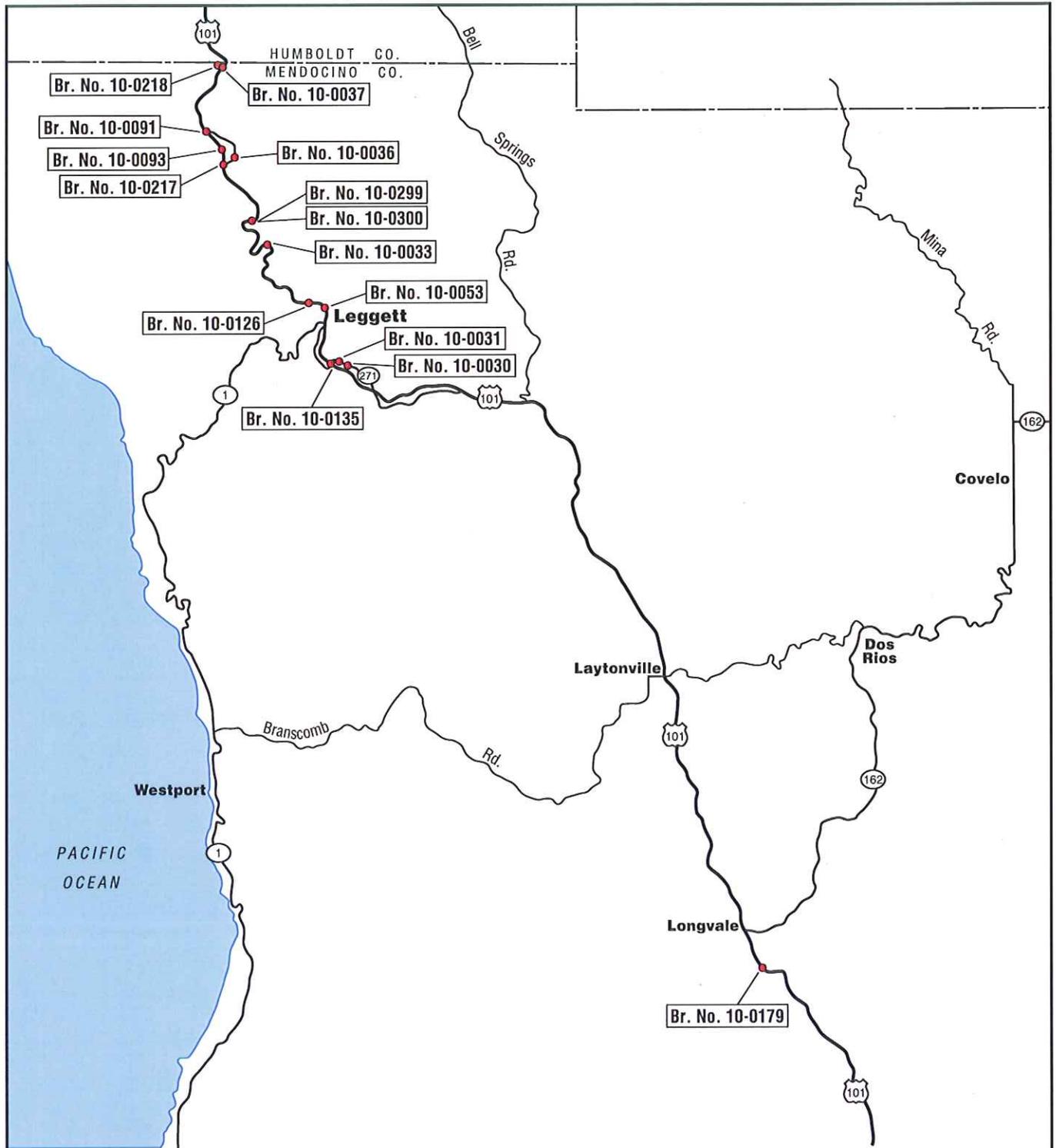
The asbestos and LCP survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. The survey addressed only the structures identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some ACM or LCP at the project location may not have been identified. Spaces such as cavities, voids, crawlspaces, and pipe chases may have been concealed to our investigator. Previous renovation work may have concealed or covered spaces or materials or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have partially replaced ACM with indistinguishable non-ACM. Asbestos and/or LCP may exist in areas of the structures that were not accessible or sampled in conjunction with this TO.

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If suspect ACM and/or LCP are found, additional sampling and analysis should be performed to determine if the materials contain asbestos or lead.

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.



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PHONE 916.852.9118 - FAX 916.852.9132

Mendocino County Bridges

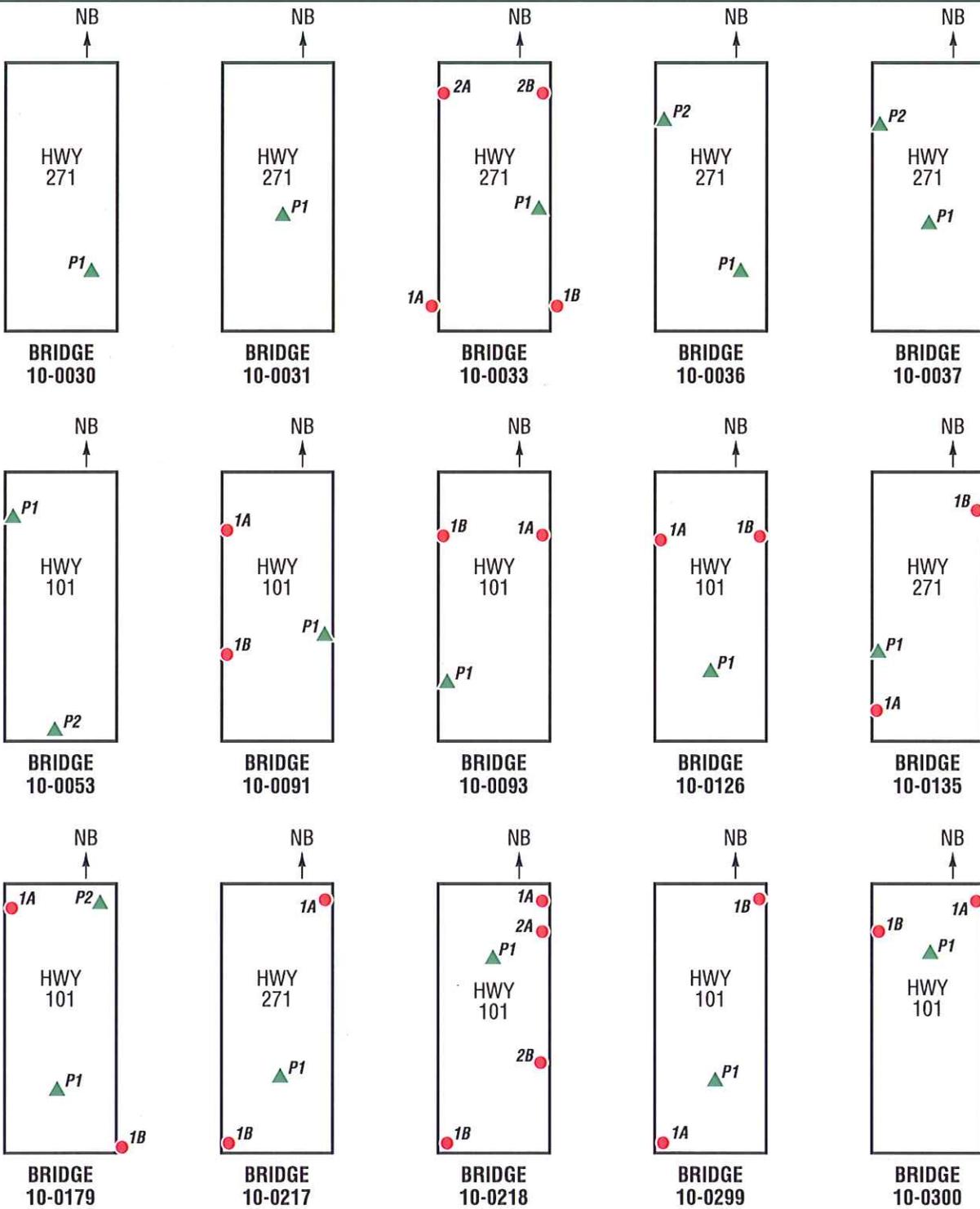
Mendocino County,
California

VICINITY MAP

GEOCON Proj. No. S9300-06-194
Task Order No. 194
E-FIS 01 0002 0281 1 (EA 01-0A4201)
Caltrans Contract 03A1368

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Figure 1



LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location
- NB Northbound

NOT TO SCALE



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Mendocino County Bridges

Mendocino County,
California

SITE PLAN

GEOCON Proj. No. S9300-06-194
Task Order No. 194
E-FIS 01 0002 0281 1 (EA 01-0A4201)
Caltrans Contract 03A1368

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Figure 2



Photo 1 – Big Dann Creek Bridge (Bridge 10-0030) (*The signage (“Big Dan”) is incorrect.*)



Photo 2 – Bridge 10-0030 arches and columns



Photo 3 – Cedar Creek Bridge (Bridge 10-0031)



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PHOTOGRAPHS 1, 2, & 3

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Photo 4 – Bridge 10-0031 arches and columns



Photo 5 – Bridges Creek Bridge (Bridge 10-0033)



Photo 6 – Bridge 10-0033 deck and barriers



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PHOTOGRAPHS 4, 5, & 6

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Photo 7 – Bridge 10-0033 abutment



Photo 8 – Bridge 10-0033 barrier rail shims (non-asbestos)



Photo 9 – McCoy Creek Bridge (Bridge 10-0036)



Photo 10 – Bridge 10-0036 deck and barriers



Photo 11 – Bridge 10-0036 abutment and columns (wood)

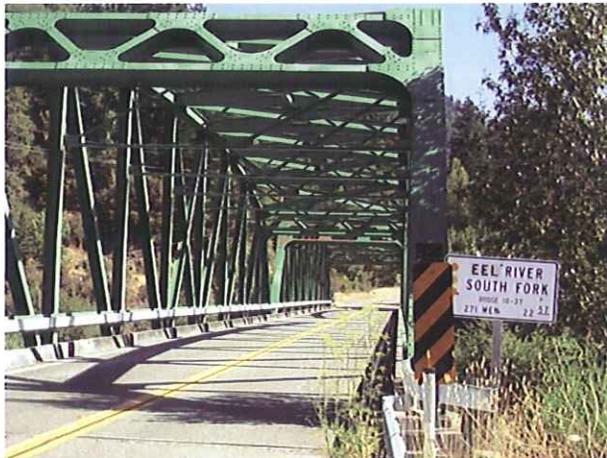


Photo 12 – South Fork Eel River Bridge (Bridge 10-0037)



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PHOTOGRAPHS 10, 11, & 12

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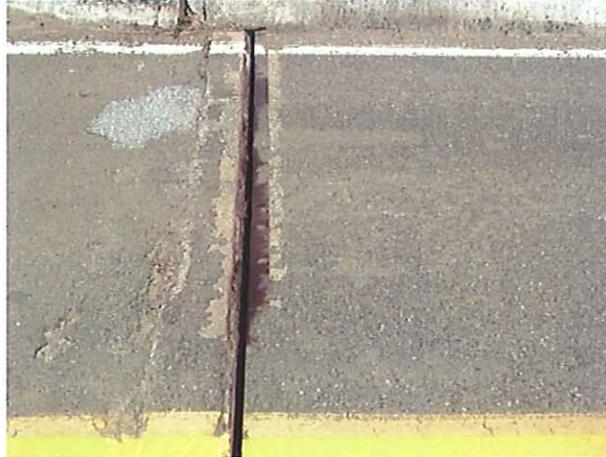


Photo 13 – Bridge 10-0037 deck



Photo 14 – Bridge 10-0037 truss and girder system



Photo 15 – Jitney Gulch Bridge (Bridge 10-0053) (*The signage ("1-53") is incorrect.*)



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PHOTOGRAPHS 13, 14, & 15

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Photo 16 – Bridge 10-0053 deck and barriers



Photo 17 – Bridge 10-0053 abutment and girders



Photo 18 – Route 101/271 Separation (Bridge 10-0091)



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PHOTOGRAPHS 16, 17, & 18

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Photo 19 – Bridge 10-0091 deck and barriers

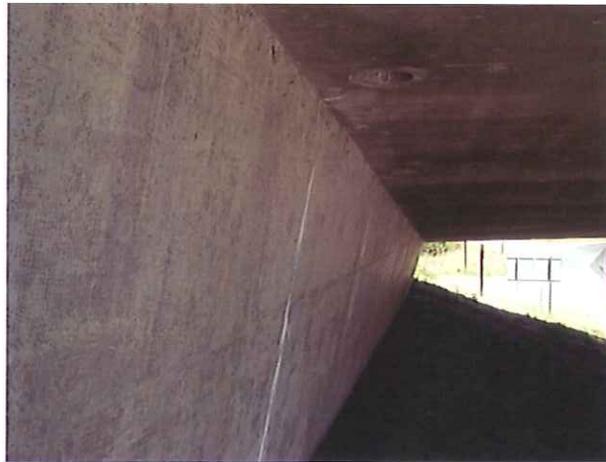


Photo 20 – Bridge 10-0091 abutment



Photo 21 – Bridge 10-0091 asbestos barrier rail shims



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PHOTOGRAPHS 19, 20, & 21

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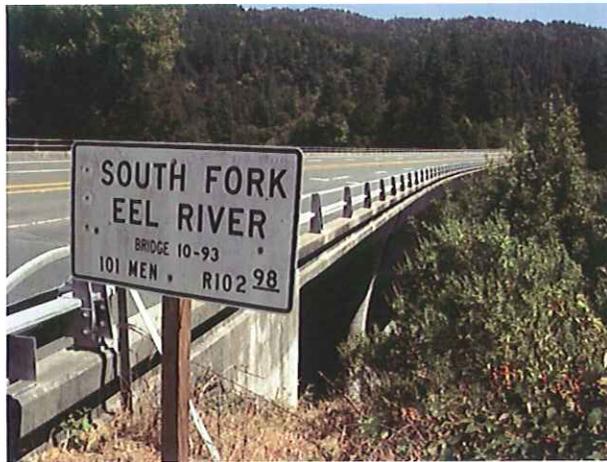


Photo 22 – South Fork Eel River Bridge (Bridge 10-0093)



Photo 23 – Bridge 10-0093 asbestos barrier rail shims



Photo 24 – Bridge 10-0093 abutment



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PHOTOGRAPHS 22, 23, & 24

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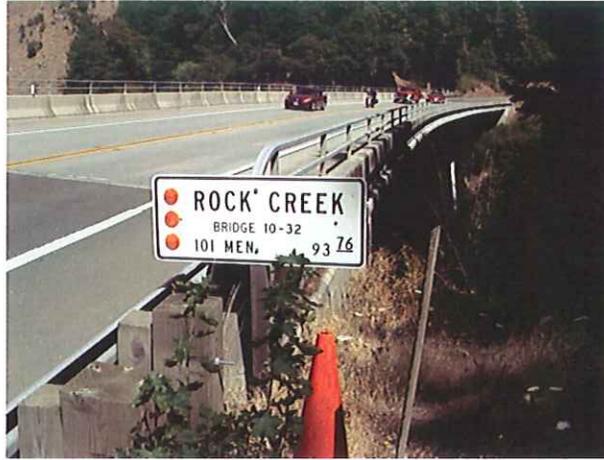


Photo 25 – Rock Creek Bridge (Bridge 10-0126) (*The signage (“10-32”) is incorrect.*)



Photo 26 – Bridge 10-0126 deck and barriers



Photo 27 – Bridge 10-0126 abutment



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PHOTOGRAPHS 25, 26, & 27

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Photo 28 – Route 271/101 Separation (Bridge 10-0135)



Photo 29 – Bridge 10-0135 asbestos barrier rail shims



Photo 30 – Bridge 10-0135 abutment



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PHOTOGRAPHS 28, 29, & 30

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Photo 31 – Arnold Overhead (Bridge 10-0179)



Photo 32 – Bridge 10-0179 deck and barriers



Photo 33 – Bridge 10-0179 abutment and columns



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PHOTOGRAPHS 31, 32, & 33

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Photo 34 – Bridge 10-0179 girders



Photo 35 – Route 271/101 Separation (Bridge 10-0217)

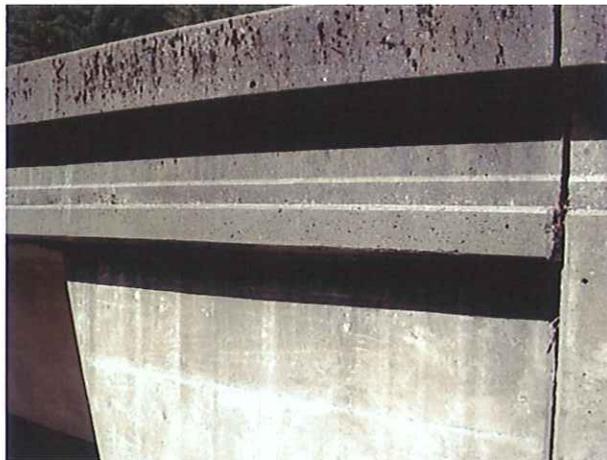


Photo 36 – Bridge 10-0217 abutment and span



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PHOTOGRAPHS 34, 35, & 36

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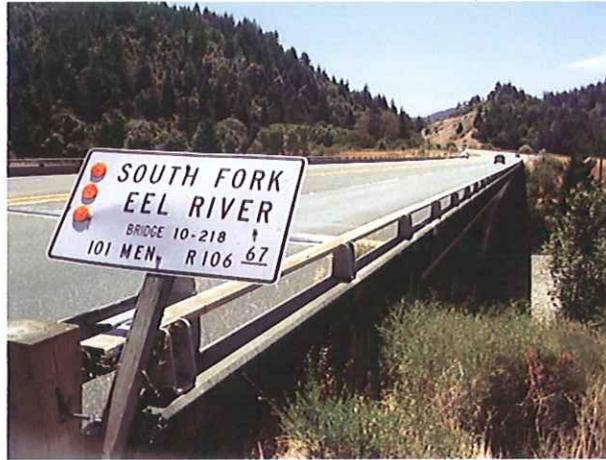


Photo 37 – South Fork Eel River Bridge (Bridge 10-0218)

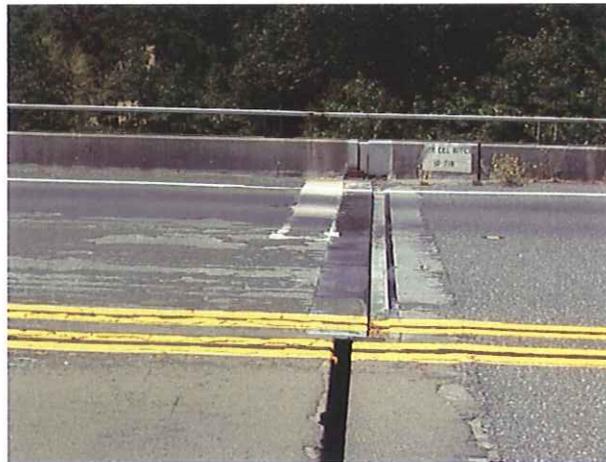


Photo 38 – Bridge 10-0218 deck and barriers



Photo 39 – Bridge 10-0218 abutment



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PHOTOGRAPHS 37, 38, & 39

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Photo 40 – Bridge 10-0218 asbestos barrier rails shims



Photo 41 – South Fork Eel River Bridge (Bridge 10-0299)



Photo 42 – Bridge 10-0299 deck and barriers



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PHOTOGRAPHS 40, 41, & 42

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Photo 43 – Bridge 10-0299 abutment

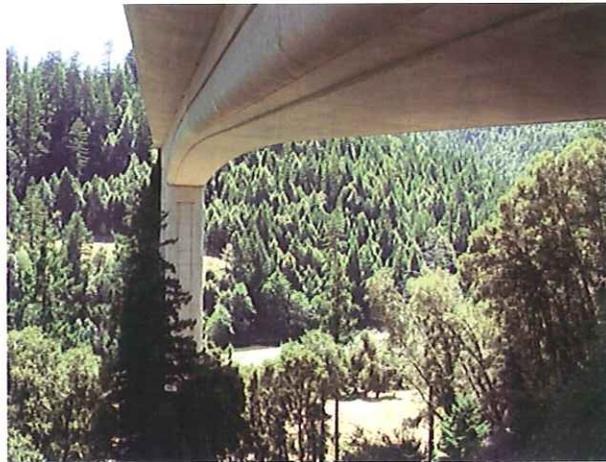


Photo 44 – Bridge 10-0299 column and span

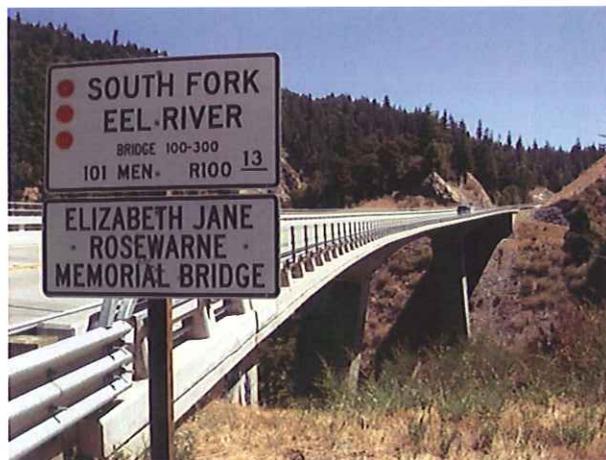


Photo 45 – South Fork Eel River Bridge (Bridge 10-0300)



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PHOTOGRAPHS 43, 44, & 45

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Photo 46 – Bridge 10-0300 deck and barriers



Photo 47 – Bridge 10-0300 headwall expansion joint



Photo 48 – Bridge 10-0300 abutment



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PHOTOGRAPHS 46, 47, & 48

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TABLE 1
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS
 MENDOCINO COUNTY BRIDGES
 CALTRANS CONTRACT 03A1368, TASK ORDER NO. 194, E-FIS 01 0002 0281 1 (EA 01-0A4201)
 MENDOCINO COUNTY, CALIFORNIA
 Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Bridge No.	Sample Group No.	Description of Material	Approximate Quantity	Friable	Site Photo	Asbestos Content
10-0033	10-0033-1 10-0033-2	Expansion joint fill material (abutments) Sheet packing (barrier rail shims)	NA NA	NA NA	7 8	ND ND
10-0091	10-0091-1	Sheet packing (barrier rail shims)	20 square feet	No	21	80%
10-0093	10-0093-1	Sheet packing (barrier rail shims)	80 square feet	No	23	80%
10-0126	10-0126-1	Expansion joint fill material	NA	NA	27	ND
10-0135	10-0135-1	Sheet packing (barrier rail shims)	10 square feet	No	29	80%
10-0179	10-0179-1	Expansion joint fill material	NA	NA	33	ND
10-0217	10-0217-1	Expansion joint fill material	NA	NA	36	ND
10-0218	10-0218-1 10-0218-2	Expansion joint fill material Sheet packing (barrier rail shims)	NA 60 square feet	NA No	39 40	ND 80%
10-0299	10-0299-1	Expansion joint fill material	NA	NA	43	ND
10-0300	10-0300-1	Expansion joint fill material	NA	NA	47	ND

Notes:
 NA = Not applicable (no asbestos detected)
 ND = Not detected

TABLE 2
 SUMMARY OF PAINT ANALYTICAL RESULTS - TOTAL AND SOLUBLE LEAD
 MENDOCINO COUNTY BRIDGES
 CALTRANS CONTRACT 03A1368, TASK ORDER NO. 194, E-FIS 01 0002 0281 1 (EA 01-0A4201)
 MENDOCINO COUNTY, CALIFORNIA

Bridge No.	Paint Sample No.	Paint Description	Approximate Quantity	Peeling/Flaking	Site Photos	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
10-0030	10-0030-P1	White traffic striping	Intact		1	<10	---	---
10-0031	10-0031-P1	Yellow traffic striping	Intact		3	2,500	---	<2.5
10-0033	10-0033-P1	White traffic striping	Intact		5	3.2	---	---
10-0036	10-0036-P1	White traffic striping	Intact		9	<40	<0.50	---
	10-0036-P2	White (barriers)	100 square feet		10	410	0.88	---
10-0037	10-0037-P1	Yellow traffic striping	Intact		12	4,200	---	<0.50
	10-0037-P2	Green (structural steel)	Intact		14	1,700	---	<3.1
10-0053	10-0053-P1	White traffic striping	Intact		16	<5.6	---	---
	10-0053-P2	Green (structural steel)	Intact		17	14,000	---	7.7
10-0091	10-0091-P1	White traffic striping	Intact		19	29	---	---
10-0093	10-0093-P1	White traffic striping	Intact		22	2.5	---	---
10-0126	10-0126-P1	Yellow traffic striping	Intact		26	3.8	---	---
10-0135	10-0135-P1	White traffic striping	Intact		28	23	---	---
10-0179	10-0179-P1	Yellow traffic striping	Intact		32	1,100	---	0.60
	10-0179-P2	Gray (structural steel)	Intact		34	66,000	---	95
10-0217	10-0217-P1	Yellow traffic striping	Intact		35	11,000	---	3.2

TABLE 2
 SUMMARY OF PAINT ANALYTICAL RESULTS - TOTAL AND SOLUBLE LEAD
 MENDOCINO COUNTY BRIDGES
 CALTRANS CONTRACT 03A1368, TASK ORDER NO. 194, E-FIS 01 0002 0281 1 (EA 01-0A4201)
 MENDOCINO COUNTY, CALIFORNIA

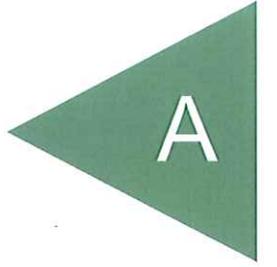
Bridge No.	Paint Sample No.	Paint Description	Approximate Quantity	Peeling/Flaking	Site Photos	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
10-0218	10-0218-P1	Yellow traffic striping	Intact		38	5,500	---	0.57
10-0299	10-0299-P1	Yellow traffic striping	Intact		42	3.7	---	---
10-0300	10-0300-P1	Yellow traffic striping	Intact		46	5.5	---	---

Notes:

- mg/kg = milligrams per kilogram (EPA Test Method 6010B)
- WET = Waste Extraction Test (EPA Test Method 7420)
- mg/l = milligrams per liter
- TCLP = Toxicity Characteristic Leaching Procedure (EPA Test Method 7420)
- < = Not detected at or above the indicated method detection limit
- = Not analyzed

APPENDIX

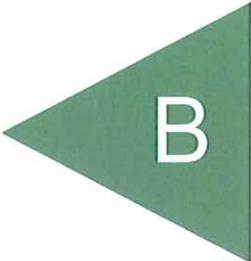
A



EA 01-0A4201 - Locations and Proposed Work

Bridge #	Structure Name	Co	Rte	Postmile	Work Description
10 0030	BIG DANN CREEK	MEN	271	4.92	Repair the rail on the left side of the bridge 6 m (20 feet) from Abutment 8 that has been damaged, due to possible vehicle impact. Repair the spalled areas of the girders and outriggers. Saw-cut the perimeter of the spalled areas to a depth of at least 20 mm (3/4 in.). Repair the spalls and incipient spalls on the columns and arches. Saw-cut the perimeter of the spalled areas to a depth of at least 20 mm (3/4 in.).
10 0031	CEDAR CREEK	MEN	271	5.22	Left girder in Span 4 there are two small spalls about 5 cm (2 in.) in diameter that appear to be rock pockets from the original construction.
10 0033	BRIDGES CREEK	MEN	101	97.47	Replace high density polyester overlay throughout bridge.
10 0036	MC COY CREEK	MEN	271	17.88	Repair the AC overlay on the deck that has numerous severe longitudinal and transverse cracks throughout all spans.
10 0037	SOUTH FORK EEL RIVER	MEN	271	22.57	Repair the spall, with exposed reinforcing bar, along the top of the back wall of the expansion joint at Abutment 1 in both lanes of the roadway. Saw cut a joint between the Abutment 3 backwall and the reinforced concrete deck.
10 0053	JITNEY GULCH	MEN	101	93.01	Install clips on both sides of the center girder at Bent 2. Remove and replace the Type A joint seal at both abutments and at both hinges in Span 2 that have failed in adhesion. Install a joint seal that is large enough for both the gap size and movement rating of the joint. Repair the AC approach about 8-12 ft. (2.4-3.6 m) from the paving notch at Abutment 4. Replace or reset the misaligned hinge bolts at the girder seats in Span 2. Replace the elastomeric bearing pads that are distorted/damaged. Clean the bearing surfaces at the suspended span (Span 2) that are dirty.
10 0091	ROUTE 10/271 SEPARATION	MEN	101	R103.81	Clean out and seal AC at Abutment 1. Repair AC overlay middle of lane 2, Abutment 2.
10 0093	SOUTH FORK EEL RIVER	MEN	101	R102.68 0	Clean the steel-finger expansion joint assembly at Abutment 1 and Piers 3, 5 (both joints), 7, and 9 that is filled with dirt, sand, gravel, and weeds. Repair the deck in the southbound Number 2 (right) Lane of Span 9. Saw-cut the perimeter of the spalled area to be repaired to a depth of at least 20 mm (3/4).
10 0126	ROCK CREEK	MEN	101	93.71	All of the columns have multiple light-to-moderate pattern and horizontal cracks throughout. Apply Silane to all surfaces. Remove and replace the Type B joint seal in the expansion joint at Abutment 4 that has failed in compression. Install a joint seal.
10 0135	ROUTE 271/101 SEPARATION (SCANDIA- SOUTH LEGGETT)	MEN	271	5.58	Repair the new and old high load hit spalls above the northbound and southbound lanes of US 101.
10 0179	ARNOLD BRIDGE & OVERHEAD	MEN	101	57.67	Clean out and seal the gap in the AC at Abutment 1. Remove and replace the Type A Joint Seal in the Expansion joint at Piers 3 - 9 and Abutment 10. Repair the potholes in the AC overlay of the Number 2 Lane in both directions of travel. Clean out and seal all cracks in the AC overlay in all spans.
10 0217	ROUTE 271/101 SEPARATION (REYNOLDS)	MEN	271	17.03	Clean out and seal the severe skew/diagonal crack/gap in the AC. Repair the AC approaches.
10 0218	SOUTH FORK EEL RIVER	MEN	101	R106.57 0	Replace the sliding steel plates over the expansion joints at the abutments and replace them.
10 0299	SOUTH FORK EEL RIVER	MEN	101	R99.510	Patch a 0.15-m by 0.15-m patch 1.0-m into the southbound lane from the left fog line 40-m from Abutment 1 exhibiting delamination and cracking.
10 0300	SOUTH FORK EEL RIVER	MEN	101	R100.02 0	Treat the deck with methacrylate.

APPENDIX



B

**EMSL Analytical, Inc**

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
 Phone/Fax: (510) 895-3675 / (510) 895-3680
<http://www.emsl.com> sanleandrolab@emsl.com

EMSL Order: 091210493
 CustomerID: GECN21
 CustomerPO: S9300-06-194
 ProjectID: S9300-06-**

Attn: **Dave Watts**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550
 Project: S9300-06-194, (MEN/LAKE CO.)

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 08/15/12 3:00 PM
 Analysis Date: 8/21/2012
 Collected: 8/7/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-0033-1 A-Joint Fill Material 091210493-0001		Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
10-0033-1 B-Joint Fill Material 091210493-0002		Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
10-0033-2 A-Shims 091210493-0003		Blue Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
10-0033-2 B-Shims 091210493-0004		Blue Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
10-0091-1 A-Shims 091210493-0005		Gray Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile
10-0091-1 B-Shims 091210493-0006		Gray Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile
10-0093-1 A-Shims 091210493-0007		Gray/Tan Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile
10-0093-1 B-Shims 091210493-0008		Gray/Tan Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile

Analyst(s)
 Jorge Leon (24)

Baojia Ke, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 08/21/2012 16:41:25

**EMSL Analytical, Inc**

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
 Phone/Fax: (510) 895-3675 / (510) 895-3680
<http://www.emsl.com> sanleandrolab@emsl.com

EMSL Order:	091210493
CustomerID:	GEEN21
CustomerPO:	S9300-06-194
ProjectID:	S9300-06-**

Attn: Dave Watts Geocon Consultants, Inc. 6671 Brisa Street Livermore, CA 94550	Phone: (925) 371-5900 Fax: (925) 371-5915 Received: 08/15/12 3:00 PM Analysis Date: 8/21/2012 Collected: 8/7/2012
Project: S9300-06-194, (MEN/LAKE CO.)	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-0126-1 A-Joint Fill Material <i>091210493-0009</i>		Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
10-0126-1 B-Joint Fill Material <i>091210493-0010</i>		Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
10-0135-1 A-Shims <i>091210493-0011</i>		Gray Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile
10-0135-1 B-Shims <i>091210493-0012</i>		Gray Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile
10-0179-1 A-Joint Fill Material <i>091210493-0013</i>		Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
10-0179-1 B-Joint Fill Material <i>091210493-0014</i>		Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
10-0217-1 A-Joint Fill Material <i>091210493-0015</i>		Brown/Black Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected

Analyst(s) _____
 Jorge Leon (24)


 Baojia Ke, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 08/21/2012 16:41:25

**EMSL Analytical, Inc**

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<http://www.emsl.com> sanleandrolab@emsl.com

EMSL Order:	091210493
CustomerID:	GECN21
CustomerPO:	S9300-06-194
ProjectID:	S9300-06-**

Attn: Dave Watts Geocon Consultants, Inc. 6671 Brisa Street Livermore, CA 94550	Phone: (925) 371-5900 Fax: (925) 371-5915 Received: 08/15/12 3:00 PM Analysis Date: 8/21/2012 Collected: 8/7/2012
Project: S9300-06-194, (MEN/LAKE CO.)	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-0217-1 B-Joint Fill Material <i>091210493-0016</i>	Brown/Black Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected	
10-0218-1 A-Joint Fill Material <i>091210493-0017</i>	Brown/Black Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected	
10-0218-1 B-Joint Fill Material <i>091210493-0018</i>	Brown/Black Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected	
10-0218-2 A- Shims <i>091210493-0019</i>	Gray Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile	
10-0218-2 B-Shims <i>091210493-0020</i>	Gray Fibrous Homogeneous		20% Non-fibrous (other)	80% Chrysotile	
10-0299-1 A-Joint Fill Material <i>091210493-0021</i>	Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected	
10-0299-1 B-Joint Fill Material <i>091210493-0022</i>	Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected	

Analyst(s) _____
 Jorge Leon (24)


 Baojia Ke, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 08/21/2012 16:41:25



EMSL Analytical, Inc

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Phone/Fax: (510) 895-3675 / (510) 895-3680
<http://www.emsl.com> sanleandrolab@emsl.com

EMSL Order: 091210493
CustomerID: GECN21
CustomerPO: S9300-06-194
ProjectID: S9300-06-**

Attn: **Dave Watts**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550
Project: S9300-06-194, (MEN/LAKE CO.)

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 08/15/12 3:00 PM
Analysis Date: 8/21/2012
Collected: 8/7/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-0300-1 A-Joint Fill Material 091210493-0023		Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
10-0300-1 B-Joint Fill Material 091210493-0024		Brown Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected

Analyst(s)

Jorge Leon (24)



Baojia Ke, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 08/21/2012 16:41:25


ADVANCED TECHNOLOGY
LABORATORIES

August 23, 2012

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 371-5900
Fax: (925) 371-5915


ACCREDITED IN ACCORDANCE WITH
nelap
ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No.: T104704502

Re: ATL Work Order Number : 1202922
Client Reference : MEN/LAKE Co., S9300-06-194

Enclosed are the results for sample(s) received on August 16, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,



Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

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www.atlglobal.com



Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : MEN/LAKE Co., S9300-06-194
Report To : Dave Watts
Reported : 08/23/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
10-0030-P1	1202922-01	Paint	8/16/12 0:00	8/16/12 8:55
10-0031-P1	1202922-02	Paint	8/16/12 0:00	8/16/12 8:55
10-0033-P1	1202922-03	Paint	8/16/12 0:00	8/16/12 8:55
10-0036-P1	1202922-04	Paint	8/16/12 0:00	8/16/12 8:55
10-0036-P2	1202922-05	Paint	8/16/12 0:00	8/16/12 8:55
10-0037-P1	1202922-06	Paint	8/16/12 0:00	8/16/12 8:55
10-0037-P2	1202922-07	Paint	8/16/12 0:00	8/16/12 8:55
10-0053-P1	1202922-08	Paint	8/16/12 0:00	8/16/12 8:55
10-0053-P2	1202922-09	Paint	8/16/12 0:00	8/16/12 8:55
10-0091-P1	1202922-10	Paint	8/16/12 0:00	8/16/12 8:55
10-0093-P1	1202922-11	Paint	8/16/12 0:00	8/16/12 8:55
10-0126-P1	1202922-12	Paint	8/16/12 0:00	8/16/12 8:55
10-0135-P1	1202922-13	Paint	8/16/12 0:00	8/16/12 8:55
10-0179-P1	1202922-14	Paint	8/16/12 0:00	8/16/12 8:55
10-0179-P2	1202922-15	Paint	8/16/12 0:00	8/16/12 8:55
10-0217-P1	1202922-16	Paint	8/16/12 0:00	8/16/12 8:55
10-0218-P1	1202922-17	Paint	8/16/12 0:00	8/16/12 8:55
10-0299-P1	1202922-18	Paint	8/16/12 0:00	8/16/12 8:55
10-0300-P1	1202922-19	Paint	8/16/12 0:00	8/16/12 8:55



Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : MEN/LAKE Co., S9300-06-194
Report To : Dave Watts
Reported : 08/23/2012

Total Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: KK

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time		Notes
									AnalYZed		
1202922-01	10-0030-P1	ND	mg/kg	10	NA	5	B2H0403	08/20/2012	08/22/12 12:33		D1
1202922-02	10-0031-P1	2500	mg/kg	110	NA	20	B2H0403	08/20/2012	08/20/12 18:37		D1, D2
1202922-03	10-0033-P1	3.2	mg/kg	2.0	NA	1	B2H0403	08/20/2012	08/21/12 09:36		
1202922-04	10-0036-P1	ND	mg/kg	40	NA	20	B2H0403	08/20/2012	08/20/12 18:44		D1, D2
1202922-05	10-0036-P2	410	mg/kg	40	NA	20	B2H0403	08/20/2012	08/20/12 18:47		D1, D2
1202922-06	10-0037-P1	4200	mg/kg	40	NA	20	B2H0403	08/20/2012	08/20/12 18:49		D1, D2
1202922-07	10-0037-P2	1700	mg/kg	48	NA	1	B2H0403	08/20/2012	08/21/12 09:34		
1202922-08	10-0053-P1	ND	mg/kg	5.6	NA	1	B2H0403	08/20/2012	08/21/12 09:32		
1202922-09	10-0053-P2	14000	mg/kg	270	NA	20	B2H0403	08/20/2012	08/20/12 18:55		D1
1202922-10	10-0091-P1	29	mg/kg	2.0	NA	1	B2H0403	08/20/2012	08/21/12 09:30		
1202922-11	10-0093-P1	2.5	mg/kg	2.0	NA	1	B2H0405	08/20/2012	08/21/12 10:48		
1202922-12	10-0126-P1	3.8	mg/kg	2.0	NA	1	B2H0405	08/20/2012	08/21/12 10:50		
1202922-13	10-0135-P1	23	mg/kg	11	NA	1	B2H0405	08/20/2012	08/21/12 09:15		
1202922-14	10-0179-P1	1100	mg/kg	40	NA	20	B2H0405	08/20/2012	08/20/12 16:46		D1
1202922-15	10-0179-P2	66000	mg/kg	650	NA	20	B2H0405	08/20/2012	08/20/12 16:49		D1
1202922-16	10-0217-P1	11000	mg/kg	40	NA	20	B2H0405	08/20/2012	08/20/12 16:51		D1
1202922-17	10-0218-P1	5500	mg/kg	40	NA	20	B2H0405	08/20/2012	08/21/12 10:05		D1
1202922-18	10-0299-P1	3.7	mg/kg	2.0	NA	1	B2H0405	08/20/2012	08/21/12 09:19		
1202922-19	10-0300-P1	5.5	mg/kg	2.0	NA	1	B2H0405	08/20/2012	08/21/12 09:25		



Geocon Consultants, Inc.
 6671 Brisa Street
 Livermore, CA 94550

Project Number : MEN/LAKE Co., S9300-06-194

Report To : Dave Watts

Reported : 08/23/2012

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B2H0403 - EPA 3050B									
Blank (B2H0403-BLK1)							Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	ND	1.0					NR		
LCS (B2H0403-BS1)							Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	46.9649	1.0	50.0000		93.9	80 - 120			
LCS Dup (B2H0403-BSD1)							Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	47.0570	1.0	50.0000		94.1	80 - 120	0.196	20	
Duplicate (B2H0403-DUP1)		Source: 1202922-10					Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	0.817681	1.0		28.9744	NR		189	20	R
Batch B2H0405 - EPA 3050B									
Blank (B2H0405-BLK1)							Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	ND	1.0					NR		
LCS (B2H0405-BS1)							Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	45.2644	1.0	50.0000		90.5	80 - 120			
Duplicate (B2H0405-DUP1)		Source: 1202922-11					Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	ND	40		2.54023	NR			20	
Matrix Spike (B2H0405-MS1)		Source: 1202828-41RE1					Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	121.194	20	125.000	9.04364	89.7	46 - 116			
Matrix Spike Dup (B2H0405-MSD1)		Source: 1202828-41RE1					Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	128.949	20	125.000	9.04364	95.9	46 - 116	6.20	20	
Batch S2H0228 - B2H0172									
Instrument Blank (S2H0228-IBL1)							Prepared: 8/20/2012 Analyzed: 8/20/2012		
Lead	ND	1.0					NR		



Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : MEN/LAKE Co., S9300-06-194
Report To : Dave Watts
Reported : 08/23/2012

Notes and Definitions

R RPD value outside acceptance criteria. Calculation is based on raw values.
D2 Sample required dilution due to high concentration of non-target analyte.
D1 Sample required dilution due to possible matrix interference.
ND Analyte not detected at or above reporting limit
PQL Practical Quantitation Limit
MDL Method Detection Limit
NR Not Reported
RPD Relative Percent Difference

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY:

Advanced Technologies Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 (562) 989-4045 • Fax (562) 989-4040

Client: **GEOCON CONSULTANTS, INC.**
 Attn: **D. WATTS**
 Address: 6671 Brisa Street
 City: **Livermore** State: **CA** Zip Code: **94550**

Project #: **59300-06-194** Sampler: **D. WATTS**
 Relinquished by: (Signature and Printed Name) **[Signature]** Date: **8/14/12** Time: **1800**
 Received by: (Signature and Printed Name) **[Signature]** Date: **8/14/12** Time: **1800**
 Relinquished by: (Signature and Printed Name) **[Signature]** Date: **8/14/12** Time: **1800**
 Received by: (Signature and Printed Name) **[Signature]** Date: **8/14/12** Time: **1800**

Method of Transport: Client ATL CA OverN FEDEX Other: _____
 Sample Condition Upon Receipt: 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

TEL: (925) 371-5900 FAX: (925) 371-5915
 Date: **8/14/12** Time: **1800**

Special Instructions/Comments: **Anticipate Soluble Results**
EA 01-044201

Bill To: _____
 Attn: **SAME AS ABOVE**
 Co: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Circle or Add Analysts (es) Requested: _____
 8081 (pesticides) _____
 8082 (PCB) _____
 8200 (Volatiles) _____
 8270C (BNA) _____
 8010B (Total Meta) _____
 8015B (GRO) / BTEX _____
 8015B (ORO) _____
 8021 (BTEX) _____
 TITLE 22 / CAM 17 (6010 / 7000) _____

LAB USE ONLY: Batch #:	LAB USE ONLY: Lab No.	Sample Description	Sample I.D. / Location	Date	Time	SPECIFY APPROPRIATE MATRIX		PRESERVATION	Q / Q / C
						Container(s)	Type		
102922-01			10-0030 - P1						
	2		-0031 -						
	3		-0033 -						
	4		-0036 -						
	5		- - - P2						
	6		-0037 - P1						
	7		- - - P2						
	8		-0053 - P1						
	9		- - - P2						
	10		-0091 - P1						

TAT: A= Overnight ≤ 24 hr B= Next workday
 Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal
 Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
 Z=Zn(Ac) O=NaOH T=Na₂S₂O₃

DISTRIBUTION: White with report Yellow in folder Pink to submitter

Diane Galvan

From: David Watts [watts@geoconinc.com]
Sent: Monday, August 20, 2012 11:13 AM
To: Diane Galvan
Subject: S9300-06-194

Please leave the date of collection/receipt as 8/16. Thanks.



David Watts | Senior Project Scientist
Geocon Consultants, Inc.
6671 Brisa Street, Livermore, California 94550
Tel 925.371.5900 Fax 925.371.5915 Cell 925.785.5340
www.geoconinc.com

ADVANCED TECHNOLOGY
LABORATORIES

August 30, 2012

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 371-5900
Fax: (925) 371-5915



Re: ATL Work Order Number : 1202922
Client Reference : MEN/LAKE Co., S9300-06-194

Enclosed are the results for sample(s) received on August 16, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "E Rodriguez".

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

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Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : MEN/LAKE Co., S9300-06-194
Report To : Dave Watts
Reported : 08/30/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
10-0031-P1	1202922-02	Paint	8/16/12 0:00	8/16/12 8:55
10-0036-P1	1202922-04	Paint	8/16/12 0:00	8/16/12 8:55
10-0036-P2	1202922-05	Paint	8/16/12 0:00	8/16/12 8:55
10-0037-P1	1202922-06	Paint	8/16/12 0:00	8/16/12 8:55
10-0037-P2	1202922-07	Paint	8/16/12 0:00	8/16/12 8:55
10-0053-P2	1202922-09	Paint	8/16/12 0:00	8/16/12 8:55
10-0179-P1	1202922-14	Paint	8/16/12 0:00	8/16/12 8:55
10-0179-P2	1202922-15	Paint	8/16/12 0:00	8/16/12 8:55
10-0217-P1	1202922-16	Paint	8/16/12 0:00	8/16/12 8:55
10-0218-P1	1202922-17	Paint	8/16/12 0:00	8/16/12 8:55



Certificate of Analysis

Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : MEN/LAKE Co., S9300-06-194
Report To : Dave Watts
Reported : 08/30/2012

STLC Lead by AA (Direct Aspiration) by EPA 7420

Analyte: Lead

Analyst: VV

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	
									Analyzed	Notes
1202922-04	10-0036-P1	ND	mg/L	0.50	NA	1	B2H0628	08/29/2012	08/30/12 12:10	
1202922-05	10-0036-P2	0.88	mg/L	0.50	NA	1	B2H0628	08/29/2012	08/30/12 12:11	

TCLP Lead by AA (Direct Aspiration) EPA 7420

Analyte: Lead

Analyst: VV

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	
									Analyzed	Notes
1202922-02	10-0031-P1	ND	mg/L	2.5	NA	1	B2H0629	08/29/2012	08/30/12 11:10	
1202922-06	10-0037-P1	ND	mg/L	0.50	NA	1	B2H0629	08/29/2012	08/30/12 11:11	
1202922-07	10-0037-P2	ND	mg/L	3.1	NA	1	B2H0629	08/29/2012	08/30/12 11:11	
1202922-09	10-0053-P2	7.7	mg/L	2.3	NA	1	B2H0629	08/29/2012	08/30/12 11:11	
1202922-14	10-0179-P1	0.60	mg/L	0.50	NA	1	B2H0629	08/29/2012	08/30/12 11:12	
1202922-15	10-0179-P2	95	mg/L	6.9	NA	2	B2H0629	08/29/2012	08/30/12 11:13	
1202922-16	10-0217-P1	3.2	mg/L	1.2	NA	1	B2H0629	08/29/2012	08/30/12 11:14	
1202922-17	10-0218-P1	0.57	mg/L	0.50	NA	1	B2H0629	08/29/2012	08/30/12 11:15	



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QUALITY CONTROL SECTION

STLC Lead by AA (Direct Aspiration) by EPA 7420 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2H0628 - STLC Extraction									
Blank (B2H0628-BLK1)					Prepared: 8/29/2012 Analyzed: 8/30/2012				
Lead	ND	0.50							NR
Blank (B2H0628-BLK2)					Prepared: 8/29/2012 Analyzed: 8/30/2012				
Lead	ND	0.50							NR
LCS (B2H0628-BS1)					Prepared: 8/29/2012 Analyzed: 8/30/2012				
Lead	5.17601	0.05	5.00000		104	80 - 120			
Duplicate (B2H0628-DUP1)					Prepared: 8/29/2012 Analyzed: 8/30/2012				
Lead	0.608704	0.50		0.512620	NR		17.1	20	
Duplicate (B2H0628-DUP2)					Prepared: 8/29/2012 Analyzed: 8/30/2012				
Lead	0.931041	0.50		0.838222	NR		10.5	20	
Matrix Spike (B2H0628-MS1)					Prepared: 8/29/2012 Analyzed: 8/30/2012				
Lead	5.30406	0.05	5.00000	0.512620	95.8	80 - 120			
Matrix Spike (B2H0628-MS2)					Prepared: 8/29/2012 Analyzed: 8/30/2012				
Lead	5.10021	0.05	5.00000	0.838222	85.2	80 - 120			
Matrix Spike Dup (B2H0628-MSD1)					Prepared: 8/29/2012 Analyzed: 8/30/2012				
Lead	6.27539	0.05	5.00000	0.512620	115	80 - 120	16.8	20	
Batch S2H0391 - B2H0628									
Instrument Blank (S2H0391-IBL1)					Prepared: 8/30/2012 Analyzed: 8/30/2012				
Lead	ND	0.50							NR



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Project Number : MEN/LAKE Co., S9300-06-194
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TCLP Lead by AA (Direct Aspiration) EPA 7420 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B2H0629 - EPA 3010A_SOIL								
Blank (B2H0629-BLK1)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	ND	0.50			NR			
Blank (B2H0629-BLK2)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	ND	0.50			NR			
Blank (B2H0629-BLK3)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	ND	0.50			NR			
Blank (B2H0629-BLK4)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	ND	0.50			NR			
LCS (B2H0629-BS1)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	1.10609	0.50	1.00000		111 80 - 120			
Duplicate (B2H0629-DUP1)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	0.513694	0.50		0.290057	NR	55.6	20	R
Duplicate (B2H0629-DUP2)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	0.531025	0.50		0.253204	NR	70.9	20	R
Matrix Spike (B2H0629-MS1)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	3.13473	0.50	2.50000	0.290057	114 80 - 120			
Matrix Spike (B2H0629-MS2)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	2.93714	0.50	2.50000	0.253204	107 80 - 120			
Matrix Spike Dup (B2H0629-MSD1)					Prepared: 8/29/2012 Analyzed: 8/30/2012			
Lead	3.08807	0.50	2.50000	0.290057	112 80 - 120	1.50	20	
Batch S2H0390 - B2H0629								
Instrument Blank (S2H0390-IBL1)					Prepared: 8/30/2012 Analyzed: 8/30/2012			
Lead	ND	0.50			NR			



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Project Number : MEN/LAKE Co., S9300-06-194

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 08/30/2012

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference

Diane Galvan

From: watts@geoconinc.com
Sent: Friday, August 24, 2012 12:33 PM
To: Diane Galvan
Subject: Re: Results/EDD/Invoice - MEN/LAKE Co. (1202921)

Diane...also, please run WETs on TTLC ND samples with PQLs of 40 or more.

Thanks.

Quoting watts@geoconinc.com:

- > Please run TCLP on anything over 1000 ppm.
- > Please run WET on anything between 50 and 999 ppm.
- > Please run TCLP on WET fails that also have a TTLC of 100 ppm or greater.
- >
- > Use micro extractions. Same TAT as CofC.
- >
- > Please do this for ALL S9300-06-194 samples...thanks.
- >
- > David Watts