

INFORMATION HANDOUT

For Contract No. 01-0B2404
At 01-HUM-VAR-VAR

Identified by
Project ID 0112000007

AGREEMENTS

PLAC - Hoopa Valley Tribe Memorandum of Understanding (MOU) Tribal Employment Rights Ordinance (TERO)

MOU 15-2
Attachment A - Hoopa Valley Tribe TERO Provisions
Attachment B - TERO Highway Construction Permit (THCP) Application

PLAC - Yurok Tribe Memorandum of Understanding (MOU) Tribal Employment Rights Ordinance (TERO)

MOU 15-3
Attachment A - Yurok TERO Provisions
Attachment B - TERO Highway Construction Permit (THCP) Application

MATERIALS INFORMATION

Asbestos and Lead-Containing Paint Survey Report South Fork Van Duzen River Bridge (04-0119) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report Blue Lake Undercrossing (04-0193) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report East Fork Willow Creek Bridge (04-0115) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report 14th Street Overcrossing (04-0245) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report Airport Road Undercrossing (04-0169 L/R) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report North Central Avenue Undercrossing (04-0095 L/R) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report Boyes Creek Viaduct Delbert A. Brown Memorial Bridge (04-0286) dated July 27, 2011

MEMORANDUM OF UNDERSTANDING

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The Hoopa Valley Tribe (**Tribe**) and the State of California Department of Transportation (**Caltrans**), in order to coordinate and carry out their respective functions and duties regarding Indian Employment Preference on State highway construction projects on lands within the Hoopa Valley Indian Reservation (**Tribal Lands**), do hereby enter into this Memorandum of Understanding (**MOU**).

This **MOU** constitutes a guide to the respective intentions, obligations, and policies of the **Tribe** and **Caltrans** in entering into this agreement. It is not intended to be used as a sole basis for authorizing funding, nor is it a legally binding contract upon either party.

Contract No. Project ID	Project County- Route- Postmile	Work Description	Hoopa Tribal Lands	Hoopa IRR Inventory
01-0B2401 0112000007	Hum-96- R13.26	Rehab Bridge Deck Repair	Hum-96- 7.80/22.75	Hum-96- 0.00/22.75

I. INDIAN EMPLOYMENT PREFERENCE AND TERO FEE

A. Recitals

1. Section 122 of the Surface Transportation and Uniform Relocation Assistance Act of 1987, Pub. L. 100-17, 23 USC ss. 140(d), recognizes the establishment of Indian Employment Preferences in the Federal Aid Highway Program.
2. The **Tribe** has enacted certain tribal employment rights policies included within the Hoopa Valley Tribe **Tribal Employment Rights Ordinance** establishing a tribal employment rights function and mandating Indian Employment Preferences on State construction projects and in other forms of employment within the Reservation.
3. The parties hereto recognize that Caltrans shall employ the services of one or more independent contractors in order to accomplish all or some of the activities necessary for State highway construction on **Tribal Lands**.
4. **Caltrans** and the **Tribe** desire to promote Indian employment by

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- a) applying Indian Employment Preferences to the State's contractors for highway work conducted on **Tribal Lands** or on any State highway included in the **Tribe's** Indian Reservation Road (IRR) Inventory when a portion of the project is on Tribal Lands, and
 - b) establishing a mechanism to ensure that the **Tribe** receives TERO Fee, of 3% of the contract award amount, for the portion of the project that is on **Tribal Lands**.
5. The parties desire to clarify the rights and obligations of the **Tribe**, **Caltrans**, and prospective bidders and contractors who may perform work on **Tribal Lands** for State highway construction contracts.

B. Statement Of Intent

1. **Caltrans** shall inform prospective bidders of the Tribal, State, and Federal laws with respect to Indian Employment Preferences by inserting provisions (Attachment A) in its information to prospective bidders. These provisions shall become part of the State highway construction contract. The provisions shall require
 - a) submittal of TERO Highway Contract Permit (THCP) to Tribe within 5 days after Contract Approval. The prime contractor and each sub-contractor shall submit an individual TCHP to the Tribe.
 - b) a 45-day delayed start to allow for Contractor submittals to and from Tribe and Contractor submittal of completed THCP to Engineer
2. **Caltrans** shall not allow the contractor to begin work until the contractor has obtained, from the **Tribe**, a TERO Highway Contract Permit (Attachment B) from The TERO officer of the **Tribe**.
3. The TERO Officer of the **Tribe** shall work with Caltrans and Caltrans' contractor to process the TCHP in a timely manner and ensure that there is no delay in either beginning work or in providing qualified candidates to meet the contractor's personnel needs. The Tribe shall return the completed THCP to the contractor within 30 days of receiving the application.

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4. Immediately after Contract Approval, **Caltrans** shall provide the TERO officer of the Tribe with all documentation necessary for the Tribe to properly invoice Caltrans for the TERO Fee. The **Tribe** shall invoice **Caltrans** for the TERO Fee, 3% of the contract award amount within 15 days after issuing the THCP. Upon receipt of an invoice for the TERO Fee, Caltrans shall forward the invoice to Accounting within 7 days and make prompt payment of the TERO Fee to the Tribe.
5. **Caltrans** shall notify the **Tribe** of each change order.
6. **Caltrans** and the **Tribe** shall make a reasonable effort to conduct joint investigations and share information. Nothing in this **MOU** shall be construed to restrict the authority of the **Tribe**, either to initiate enforcement actions in the Tribal Court or to amend Tribal laws.

II. TERO PROVISIONS – Pertaining to Contracted State Highway Work

Listed below are the provisions from the Hoopa Valley Tribe TERO that pertain to State Highway work.

**Hoopa Valley Tribe
Tribal Employment Rights Ordinance
Title 13
Approved: May 17, 2012**

13.0 SHORT TITLE

The Short title of this ordinance shall be the Tribal Employment Rights Ordinance, or TERO.

13.1 EFFECT ON PRIOR ENACTMENTS

13.1.1 Repeal. Resolution 91-71 A, as amended March 6, 1995, Ordinance No. 2-80, as amended April, 27, 1995, the Rules for Hearings Before the TERO Commission, as amended June 10, 1998, are hereby repealed and shall be of no further force and effect as stated in Section 13.13.1 of this ordinance; provided, however, that any existing agreements or contracts authorized under these now repealed enactments shall remain in effect until such agreements or contracts expire or are terminated; and provided, further, that the TERO Commission established by this Ordinance may terminate any existing Indian preference agreement and issue a permit in conformance with this

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Ordinance upon notice to the affected party and opportunity for a hearing.

13.1.2 N/A

13.1.3 N/A

13.2 DEFINITIONS

13.2.1 "Indian" means any member of any federally recognized tribe, or any person who furnishes documentary proof that he or she is recognized as an Indian by the United States, pursuant to its trust responsibility to American Indians.

13.2.2 "Hoopa Reservation" or "Reservation" means the Hoopa Valley Indian Reservation as defined under Article III of the Constitution and Bylaws of the Hoopa Valley Tribe.

13.2.3 "Employer" means any person, company, contractor, subcontractor or entity located or engaging in commercial or employment activity within the exterior boundaries of the Hoopa Valley Indian Reservation, and which employs two or more persons.

13.2.4 N/A

13.2.5 "Commission" and "Office" mean the Tribal Employment Rights Commission and its Office and the Tribal Office of Employment Relations.

13.2.6 "Council" means the Hoopa Valley Tribal Council.

13.2.7 "Minimum Threshold" means a minimum level that any job applicant shall be required to meet prior to Indian Preference being applied to that job applicant. Criteria to establish a minimum threshold may be established by but are not limited to the following:

1. Job Descriptions;
2. Interview Committees;
3. Skills Tests;
4. RFP's and License Requirements;
5. Other Job Requirements.

13.3 ESTABLISHMENT OF TERO COMMISSION AND OFFICE

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13.3.1 Establishment and Purpose of Commission

(A) The Hoopa Valley Tribal Council does hereby establish the Tribal Employment Rights Commission (TERO Commission) for the purposes of implementing and enforcing the Indian Preference provisions of this Ordinance, and disseminating information regarding unlawful employment discrimination by State and private employers subject to Title VII of the Civil Rights Act of 1964 who are operating on or near the Hoopa Valley Indian Reservation.

(B) TANF; Training by TERO Commission. The TERO Commission is hereby authorized to provide basic life/work skills training consistent with the needs of the community and implementation of the Tribal, state or federal TANF program; to establish a Tribal Employment Rights training center; to enter into agreements with labor unions and other persons or entities to provide work skills training and education opportunities; and to generally provide employment training to members of the Tribe and residents of the Hoopa Valley Indian Reservation through means deemed appropriate by the Tribal Council.

(C) TERO Tax. The TERO Commission shall be allocated sufficient funds as determined by the Hoopa Valley Tribal Council derived from the TERO Tax as described in Section 13.5 of this Ordinance for implementation, conduct, and fulfillment of the TERO Commission's purposes.

13.3.2 General Powers of the Commission

(A) Organizational Authority. The Commission may hire immediate TERO staff, obligate funds appropriated by the Council, and secure and obligate funding from Federal, State or other sources to carry out its duties and functions under this Ordinance. The Commission is further authorized and directed to adopt such organizational bylaws as are necessary to enable it to carry out its duties and functions under this Ordinance. The Commission shall report directly to the Council. The TERO Commission shall be subject to the Conflict-of-Interest and Nepotism Ordinance of the Hoopa Valley Tribe.

(B) Regulatory Authority.

(1) The Commission shall promulgate rules, regulations, interpretations of law, and guidelines for Indian preference that are necessary to implement this Ordinance. Such rules shall become effective upon Council approval of a resolution adopting said rules. Council approved rules shall be codified in the Revised Code of the Hoopa Valley Tribe,

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and the Commission shall take other reasonable steps to insure that the general Reservation community is on notice of all Indian preference and applicable employment related laws.

(2) The Commission shall maintain an Indian Skills Bank as a means of providing qualified Indian employees to employers, contractors, and subcontractors. The Commission shall actively recruit Indians for listing in the Skills Bank. The Commission shall also actively recruit and certify Indian firms as eligible for Indian Preference in contracting and sub-contacting.

(3) N/A

(4) The Commission may (. . . N/A . . .) issue permits to such contractors according to rules and procedures to be developed, which shall include procedures for revocation of such permits.

(5) The Commission is further authorized and directed to investigate complaints regarding any violation of the provisions of this Ordinance or any other tribal the Commission is authorized to enforce. The Commission may also investigate possible violations of this Ordinance if there is reasonable cause to believe a violation of this Ordinance has occurred or is occurring. Neither the Commission or any of its employees shall have the authority to investigate or assist any Hoopa Tribal employee in pursuing any employment related claim not within its authority under this Ordinance

(C) Adjudicatory Authority

The Commission may hold hearings on and determine any matter under its authority, including but not limited to hearings necessary to the issuance, modification, and revocation of any permit, license, certification, or assessment authorized hereunder, as well as any adjudicatory hearing regarding violations of the provisions of this Ordinance. The Commission shall have no authority or jurisdiction to hear or adjudicate complaints brought by Hoopa Valley Tribal employees that are not specifically authorized under this Ordinance. The Commission shall promulgate simple and fair rules to govern its adjudications, and is authorized to issue compliance orders and impose civil penalties in the form of fines.

(D) Cooperative Agreements with Other Governments

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The Commission may negotiate, and upon Council approval, enter into cooperative agreements with agencies of state and federal government in order to implement the intent of this Ordinance and eliminate unlawful discrimination against Indians.

13.3.3 Composition of the Commission

(A) The Commission shall be composed of five (5) members in good standing in the community. Three (3) members of the Commission shall be appointed by the Council in October of even numbered years, each for a term of two (2) years; and two (2) members shall be appointed in odd numbered years, each initially for a term of one (1) year, thereafter being appointed in October of odd-numbered years each for a term of two (2) years. Any member may be removed by the Council at any time for cause, subject to notice and opportunity for a hearing before Council. The Council's decision shall be final. All terms of office shall commence on October 1 of the year position becomes vacant.

(B) Decisions of the TERO Commission shall be made by a majority vote. A quorum shall consist of any two of the three Commission members.

(C) Any Commission member shall be disqualified from any involvement in decisions affecting the tribal department or entity with which he or she is employed or volunteers their time to that department.

13.3.4 Powers of the TERO Director

The TERO Director shall have those powers delegated by the Commission as it deems necessary to carry out this Ordinance. The Director shall be the investigating agent for the Commission responsible for investigating, researching, reporting and documenting any relevant information required by the Commission. The Director shall report directly to the Commission.

13.4 INDIAN EMPLOYMENT PREFERENCE POLICY AND PROCEDURES

All employers shall extend a preference to qualified Indians, as provided herein, in all aspects of employment, including but not limited to recruitment, hiring, promotion, lateral transfers, retentions, training, contracting, and subcontracting. No employer may recruit, hire, or otherwise employ any non-Indian for any employment position covered by this Ordinance; unless and until the TERO Commission has furnished written notice to such employer that no qualified Indians are available for

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such position.

13.4.1 Applicability

Unless clearly and expressly prohibited by federal and other tribal laws or Council action, this Ordinance shall apply to all employers, including but not limited to: The Council and all its programs, departments, and chartered entities or enterprises; private employers and independent contractors and subcontractors~ including those performing work for the Council, the State of California, or the United States.

13.4.2 Covered Positions

The Indian Employment Preference Policy of this section shall apply to each and every job classification, skill area, or craft recognized or utilized by an employer, including administrative, supervisory, and professional classifications.

13.4.3 Qualified Indians; Employment Criteria

An Indian shall be qualified for employment in a position if he or she meets the minimum threshold requirements for such position, and such Indian shall be accorded the preferences to which he or she is entitled under this Ordinance. No employer may utilize any employment criterion that is not legitimately related to the performance of the position.

13.4.4 Eligible Indians

(A) If this section conflicts with any applicable federal laws or regulations, the Hoopa Valley Tribe and its programs, departments and chartered entities and enterprises, and private employers contracting with the Tribe shall extend Indian preferences according to the requirements of said federal laws and regulations.

(B) Private Employers Not Contracting with the Hoopa Valley Tribe: Private employers not contracting with the Hoopa Valley Tribe and doing business within the exterior boundaries of the Hoopa Valley Indian reservation shall not be subject to the priority requirements of Section 13.4.4(A), but shall extend a preference to qualified Indians residing on or near the exterior boundaries of the Hoopa Valley Indian Reservation. (. . . N/A . . .)

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13.4.5 Notice of Employee Rights. All employers subject to this Ordinance shall prominently display a notice to all employees and applicants for employment of their rights under this Ordinance.

13.4.6 Employer Retaliation Prohibited. It shall be violation of this Ordinance for any employer to take any adverse personnel or hiring action, or to retaliate in any way, against any person who attempts to enforce the requirements under this Ordinance. Employers found by the Commission, pursuant to an adjudicatory hearing, to have engaged in retaliation shall be subject to appropriate sanctions to be imposed by the Commission. The Commission may in its discretion either hold a hearing or file action in Tribal Court to review an allegation of unlawful retaliation. The Tribal Court is authorized to issue temporary injunctions for enforcement of this provision to prevent unlawful conduct.

13.5 ESTABLISHMENT OF TERO TAX AND FEES

There is hereby established a TERO Tax to be paid to the Hoopa Valley Tribal Council . . . The tax shall be equivalent to three percent (3%) . . . The proceeds of the tax shall be used in implementing this Ordinance. The Hoopa Valley Tribal Council shall authorize the appropriate amounts of the TERO Tax to be utilized by the TERO Commission according to proof of budgetary needs provided by each department. The TERO tax shall be governed under guidelines approved by the Tribal Fiscal Department. (. . . N/A . . .) The Hoopa Valley Tribal Council when it is determined to be in the interests of the Hoopa Valley Tribe reserves the right to waive TERO Taxes and Fees for any contract or contracts, and further, may approve a waiver schedule consistent with the objectives of this Ordinance, that is implemented directly by the TERO Office and that establishes tax adjustments to not less than one percent (1%).

13.6 SPECIAL REQUIREMENTS FOR CONTRACTORS AND SUBCONTRACTORS

The requirements of this Section apply to all employers engaging in commercial or employment activities within the Reservation pursuant to public or private contract. If this section's contracting requirements conflict with applicable federal law or regulations, the applicable federal laws or regulations shall supersede this section.

13.6.1 N/A

13.6.2 N/A

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13.6.3 N/A

13.6.4 N/A . . . the contractor may not deviate from the plan or add or delete any existing new subcontracts or subcontractors without the written consent of the Contracting Officer or his designee and notice to the Commission. Any amendments to the Indian Preference Plan must be in writing and approved prior to the date of implementation.

13.6.5 N/A

13.7 N/A

13.7.1 Identification of Regular, Permanent Employees

- (A) Contractors/employers shall be required to hire and maintain as many TERO Native American preference employees as apply for and are qualified for each craft or skill.
- (B) Notwithstanding subsection A, above, Contractors/employers may hire key employees to fill not more than 25% of the workforce.

(1) Prior to commencing work on the Hoopa Valley Indian Reservation the prospective employer, contractor and sub-contractors shall identify key regular and permanent employees. The TERO Office and contractor/employer in possession of past employment records documenting employment of past supervisors or foreman shall coordinate on certifying eligibility for treatment of employees as key employee.

(2) A key employee is one who is in a top supervisory position or performs a critical function such that an employer would risk likely financial damage or loss if that task were assigned to a person unknown to the employer. A key employee has been on the employers' or contractors' annual payroll for a period of one year continuously in a supervisory capacity, or is an owner of the firm. An employee who is hired on a project-by-project basis shall not be considered a key employee.

13.7.2 Lay-Offs

No Indian Worker shall be laid off as long as a non-Indian worker in the same craft is

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still employed, not as long as the Indian meets threshold qualifications for the job, unless such non-Indian has been employed for more than 90 days longer than such Indian. If the contractor lays off by crews, qualified Indians shall be transferred to any crew that will be retained, as long as there are non-Indians in the same craft employed elsewhere on the Reservation under the same contract.

13.7.3 Existing Contracts, Employers

Any existing contracts or other work presently operating under an agreement with the Tribal Employment Rights Office will continue under the same written guidelines and rules. Each employer shall provide to the Commission a list of employees and their Indian affiliation, if any, as part of the implementation of this Ordinance.

13.7.4 Reporting Requirements

Each employer shall submit monthly reports to the Commission on a form provided indicating the number of employees, including a separate tally of Indians, it has on its work force, monthly hires and fires, and other information as may be identified on the form. An employer who fails to submit monthly reports shall be subject to sanctions provided under this Ordinance.

13.8 IMPLEMENTATION

In implementing the requirements of this Ordinance, the Commission may:

13.8.1 Numerical Hiring Goal

Impose numerical hiring goals and timetables that specify the minimum number of Indians an employer must hire.

13.8.2 N/A

13.8.3 Attend and monitor all job interviews as a non-voting participant.

13.8.4 Prohibit an employer from establishing extraneous qualification criteria or other requirements that serve as barriers to Indian employment.

13.8.5 Enter into agreements, subject to approval by the Hoopa Tribal Council, with unions and other employers to insure compliance with this Ordinance.

13.8.6 N/A

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13.8.7 Establish programs to provide counseling and support to Indian Workers to assist them to retain employment. Employers may be required to participate in and/or cooperate with such support and counseling programs.

13.8.8 Issue Permits

Issue permits for implementation and provisions of this Ordinance and other agreements entered into under the authority of this Ordinance.

13.9 ENFORCEMENT BY TERO COMMISSION

In implementing this Ordinance the Commission shall have the following powers of enforcement;

13.9.1 Investigation. Monitoring

To investigate and monitor complaints, concern, and inquiries regarding Indian preference.

13.9.2 Issue Notices of Non-Compliance and Compliance Orders

To issue notices of non-compliance and compliance orders with the Indian preference provisions of this Ordinance and other applicable provisions of this Ordinance.

13.9.3 Citations, Subpoenas and Penalties

To issue citations and subpoenas to employers regarding violations of the Indian preference provisions of this Ordinance, and to impose such civil penalties, including fines, as may be reasonably necessary to remedy the consequences of a violation of the Indian preference provisions this Ordinance or to deter future violations.

13.9.4 Hearings

To hold such hearings as may be necessary to resolve complaints, enforce the provisions of this Ordinance, and hear concerns regarding issues pursuant to the Commission's authority under this Ordinance.

13.9.5 File and Defend Cases in Tribal Court

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To bring or defend a complaint or other pleading in Tribal Court for enforcement of the Indian preference provisions of this Ordinance, against any employer within the exterior boundaries of the Hoopa Reservation.

13.10 TRIBAL COURT

Appeals of decisions of the TERO Commission may be filed under the rules of the Tribal Court. The Tribal Court is hereby authorized to hear and dispose of appeals from final decisions from TERO Commission hearings. Any appeal from a final decision of the TERO Commission must be filed within twenty (20) calendar days after the date of receipt of the TERO Commission's decision. Any decision not appealed within the required time frame shall become final and the Tribal Court shall have no jurisdiction to hear the appeal.

13.11 LEGAL REPRESENTATION

In carrying out its responsibilities under this Title, the Commission shall consult a legal counsel of its choosing subject to the approval of the Council. Any legal counsel chosen must be admitted in good standing to practice law in the state of California and the Hoopa Valley Tribal Court bar.

13.12 PRINCIPLES OF CONSTRUCTION; SEVERABILITY; SOVEREIGN IMMUNITY PRESERVED

13.12.1 This Ordinance is remedial legislation intended to rectify the long-standing problem of severe under-employment of Hoopa tribal members and other Indians living in the Reservation community. Accordingly, it is to be construed liberally to achieve its purposes. Doubtful issues are to be resolved in favor of a right of any party to obtain administrative review.

13.12.2 If any part of this Ordinance is found to be invalid for any reason, it is the intent of the Council that the remaining provisions remain in force to the maximum extent possible, and that they continue to be construed according to the provisions of this Section.

13.12.3 Nothing in this Ordinance is to be construed as a waiver of the Tribe's sovereign immunity from unconsented lawsuit, nor as consent by the Tribe to bring an action against the Tribe, its officers, or any of its departments or entities.

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13.13 EFFECT OF AMENDMENTS ON PRIOR TERO LEGISLATION AND PENDING CASES

13.13.1 Prior TERO Enactments or Rules: Resolution 91-71A, as amended March 6, 1995, Ordinance No. 2-80, as amended April 27, 1995 are repealed and shall have no further force and effect. The Rules for Hearings before the TERO Commission, as amended June 10, 1998 shall be permitted to be used where they are consistent with the language of this statute by providing uniform rules for hearings when they are authorized under this ordinance. Under no circumstances shall those present rules be considered authority for the TERO Commission to hear employment related grievances other than which is authorized under this statute. The TERO Commission under the authority granted by §13.3 .2(C) shall draft new Rules Before Hearings to effect the most recent amendments to this Ordinance.

13.13.2 All current employee grievances that are not related to termination where the TERO Commission has not issued a final decision shall be dismissed. An employee termination case that has been appealed to tile TERO Commission prior to the date of the Tribal Council transferring employee termination grievances to the Tribal Court shall be heard by the TERO Commission. However, all employee termination cases regardless of whether they are pending before the TERO Commission or before the Tribal Court shall be subject to the requirements of 1 H.V.T.C § 1.1.04(f) as it relates to the Hoopa Valley Tribe's limited waiver of sovereign immunity.

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This **MOU** may be amended by written agreement of the parties, or terminated by either party upon reasonable written notice. In the event of termination, unless otherwise mutually agreed by the parties, the provisions of this **MOU** will remain in force with respect to any contract covered hereunder which has already been awarded or for which contractor performance has already commenced.

The parties hereto have agreed to the objectives, principles, and recitations cited in this document and have further approved this **MOU** for signature by their duly authorized representatives.

for the Hoopa Valley Tribe

By: 
DANIELLE VIGIL-MASTEN
Chairperson

Date: 3-19-15^{EDM}

for the CALIFORNIA DEPARTMENT OF TRANSPORTATION

By: 
For CHARLES C. FIELDER
District Director, District 1

Date: 3-24-15

ATTACHMENT A

**Project-Specific Special Provisions for Hoopa Valley Tribe TERO 2014-2015
MOU**

SPECIAL NOTICE:

- This project includes Tribal Employment Rights Ordinance (TERO) requirements. See section 5-1.20E and 8-1.04C for TERO submittal requirements.

SSP 2-1.06B SUPPLEMENTAL PROJECT INFORMATION

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included in <i>Information Handout</i>	Hoopa Valley Tribe TERO Memorandum of Understanding (MOU) with TERO Highway Construction Permit (THCP) Application

INFORMATION HANDOUT:

Hoopa Valley Tribe TERO Requirements Information Handout contains:

1. Signed one-time MOU between the Hoopa Tribe and the Department.
2. Attachment A project-specific TERO special provisions.
3. Attachment B TERO Highway Construction Permit Application (THCP).

SSP 5-1.20G Tribal Employment Rights Ordinance Requirements:

Complete the Hoopa Valley Tribe TERO Highway Construction Permit (THCP) Application included in the *Information Handout*. Within 5 days after Contract approval, submit the completed application to the tribe and a copy of the submitted application to the Engineer.

Submit the executed THCP to the Engineer within 10 days after you receive it from the tribe.

SSP 8-1.04C:

Use a minimum 45-day delayed start after contract approval.

Do not start job site activities until the Department authorizes or accepts your submittal for:

Signed Hoopa Valley Tribe TERO Highway Construction Permit (THCP)

Do not start other job site activities until all the submittals from the above list are authorized or accepted and the following information is received by the Engineer:

Copy of the Hoopa Valley Tribe TERO Highway Construction Permit (THCP) Application submitted to the tribe.

Hoop Valley Tribal Council
TRIBAL EMPLOYMENT RIGHTS OFFICE/H.R.

71 Willow St. ~ PO Box 1467 ~ Hoopa, CA 95546
Phone (530) 625-9200 Ext. 14 ~ Fax (530) 625-4269



State Contract # 01-0B2401

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ATTACHMENT B

TERO Highway Construction Permit (THCP)

February 21, 2014

TO: ALL EMPLOYERS, CONTRACTORS AND/OR SUB-CONTRACTORS

FROM: Penny L. Cordova, TERO Director

RE: TERO HIGHWAY CONSTRUCTION PERMIT (THCP) COMPLYING WITH TRIBAL AND FEDERAL EMPLOYMENT LAWS

The Tribal Employment Rights Office (hereafter "TERO"), on the Hoopa Valley Indian Reservation, has been implemented to assist employers, contractors and/or sub-contractors (hereinafter called "**Employer**") towards meeting the required rules and regulations of the Hoopa Valley Tribal Council, also the employment laws of the U.S. Government.

TERO Highway Construction Permit (THCP): This form is an agreement between the State of California's Contractor (and its Sub-Contractors) / Employer and the Hoopa Valley Tribal Council allowing you and your company to conduct employment activity on the Hoopa Valley Indian Reservation and for providing equal employment opportunity. A TERO Highway Construction Permit (THCP) must be completed for each contract your company is awarded within five (5) days after state of California contract approval.

SKILLS BANK: The TERO Office maintains a Indian Skills Bank to assist **Employer** to meet the Indian Preference requirements as identified under the of the TITLE 13 TERO Ordinance, As Amended May 17, 2012 of the Hoopa Valley Tribal Council. Please note: Under Section 13.7.1 Identification of Key Employees: Hiring Requirements (A) Contractors/employers shall be required to hire and maintain as many TERO / Native Americans preference employees as apply for and are qualified for each craft or skill. (B) Notwithstanding subsection A, above, Contractors/employers may hire key employees to fill not more than 25% of the workforce (2) "KEY EMPLOYEES" A key employee is one who is in a top supervisory position or performs a critical function such as that an employer would risk likely financial damage or loss if that task were assigned to a person unknown to the employer. A key employee has been on the employer's or contractors' annual payroll for a period of one year continuously in a supervisory capacity, or is an owner of the firm. An employee who is hired on a project by project basis shall not be considered a key employee. (Possessing records of past employment as proof as a supervisor or foreman).

Recruitment of non-Indians shall not take place until the firm receives a written waiver notifying your company that TERO has no "qualified" Native Americans to perform that position or task. A waiver will only be issued for that position/task and the employee cannot be transferred to another position once, that job is done.

By following the above procedures, you and your company can expect an uninterrupted trouble-free contract conclusion. **PLEASE RETURN COMPLETED TERO HIGHWAY CONSTRUCTION PERMIT BEFORE COMMENCING WORK ON THE HOOPA VALLEY INDIAN RESERVATION TO:**

Penny L. Cordova, Director
Tribal Employment Rights Office
Post Office Box 1467
Hoopa, California 95546

Phone: (530) 625-9200 ext. 14
Fax: (530) 625-4269
Email: hvtero@gmail.com

TERO HIGHWAY CONSTRUCTION PERMIT (TCHP)

Employer/Contractor's Name: _____

Mailing Address: _____

City, State and Zip Code: _____

Contact Person: _____ Phone Number: _____

EMAIL: _____ FAX #: _____

Contracting with Entity/Department: _____

Contract Number # _____ Amount of Contract \$ _____

THIS IS AN AGREEMENT BETWEEN TERO AND EMPLOYER FOR CONDUCTING COMMERCE AND EMPLOYMENT ACTIVITY WITHIN THE EXTERIOR BOUNDARIES OF THE HOOPA VALLEY INDIAN RESERVATION AND HOOPA TRIBAL "LANDS." BETWEEN THE HOOPA VALLEY TRIBAL COUNCIL AND _____ (EMPLOYER/CONTRACTOR. (Hereafter "EMPLOYER").

Whereas, this agreement is entered into on this ____ day of _____, 2014; Between TERO and _____ (Employer).

1. **EMPLOYER:** We hereby agree to comply with the requirements and procedures for the selection of contractors, sub-contractors and recruitment of viable Indian applicants, through TERO.

TERO shall receive notice, in the form of copies of bid forms by awarded prime **Employer** seeking bids of all sub-contract work to be conducted on the Hoopa Valley Indian Reservation. Notice shall be made reasonably in advance of any award, but not later than five (5) days in advance of an award.

The above-named **Employer** understands that they are required to comply with the Hoopa Valley Tribal Council's Title 13 TERO Ordinance, As Amended May 17, 2012. **(All of the parameters regarding "Indian Preference." as per Section 13.4.4(B).**

2. **EMPLOYMENT PRIORITY:** Hiring preferences shall be as follows per Section 13.4.4 (B) Private Employers Not Contracting with the Hoopa Valley Tribe: Private employers not contracting with the Hoopa Valley Tribe and doing business within the exterior boundaries of the Hoopa Valley Indian Reservation shall not be subject to the priority requirements of Section 13.4.4 (a), but shall extend preference to qualified Indians residing on or near the exterior boundaries of the Hoopa Valley Indian Reservation. Private employers operating under contracts with the Hoopa Valley Tribe shall be required to provide Indian Preference according to the requirements of § 13.4 (A)

For those claiming "Indian Preference" that are not Hoopa Tribal Members, the burden of proof to show verification of their enrollment in a Federally Recognized Tribe is upon them.

A "non-Indian" will not be allowed to be recruited, until the TERO Skills Bank has been totally exhausted, or a job description presented to TERO by the **Employer** cannot be met through the Skills Bank. **(See Section 13.4 of the TERO Ordinance.)** A "non-Indian" shall not be hired until that **Employer** has been issued a written waiver from TERO stating that there are no qualified Native Americans available, therefore authorizing them to hire a "non-Indian" for that specific position. (Note: The waiver does not authorize the "non-Indian" to be transferred to other positions that become available unless a new "waiver" has been obtained by the Employer from TERO.) An **Employer** failing to abide with the TERO Ordinance could be charged with alleged discrimination.

For purposes of this agreement, pre-employment standards are those directly job related, standards toward fairness and ability which express with a reasonable amount of job training an individual would be capable of satisfactorily performing an entry level job; moreover, could progress with reasonable further guidance and training. This provision would apply to those persons who at the time of application for employment, are not fully experienced for the available position, but does possess those threshold requirements and general potential for becoming qualified through reasonable training.

3. **PRE-EMPLOYMENT STANDARDS:** Employer may not use qualification criterion or other personnel requirements which serve as barriers to local Indians or Indian employment, except only where such criteria is a requirement by business necessity. However, employer and/or contractor/sub-contractor shall have the responsibility and burden to show proof that such a criterion or requirement is truly a business necessity. (B.F.O.Q., must be a Bonafide Occupational Qualification).

4. **TRAINING: Employer** agrees that all local Indians and Indian employees will be adequately trained for the position for which they were hired. All Indian employees shall be evaluated and receive identical treatment as company/firm compensates other hires. **(See Section 13.8. of the TERO Ordinance)**
5. **DISCRIMINATION:** There shall be no discrimination in any aspect of employment related activity, equitability shall prevail; discrimination in the workplace on the basis of race, creed, color, age, sex, national origin or religion is totally unlawful.
6. **EMPLOYMENT GOALS:** (Entire issue depends on TERO Skills Bank)
 - A. **Employer** agrees that 75 % of all employees in its workforce shall be filled by local Indians as per Section 13.4.4 (B) of the Title 13 TERO Ordinance. At the end of one (1) year from the date of this agreement; this provision shall be reviewed and renegotiated and/or a new THCP has been obtained for a new contract.
 - B. If **Employer** is unable to reach the 75% employment goal as set forth above (A), it shall have the burden of justifying the rejection of every Indian applicant for any positions which became available to substantiate that criterion utilized in the recruitment process toward validity and being relevant to tasks performed, specifically the precise good faith efforts which the Employer had taken for pursuing the required goal.
 - C. **Monthly reports** are required for monitoring purposes; the data is not only a TERO compliance issue but coincides with federal employment statutes (EEOC-OFCCP). (Monthly Report Forms available at TERO Office.)
7. **TERO TAX FEE:** Caltrans will pay the required TERO tax to the TERO Commission for each **Prime Contractor**, and/or by each **Employer** operating within the exterior boundaries of the Hoopa Valley Indian Reservation whose total contract and/or annual gross revenues is \$1,000.00 or more. The tax shall be equivalent to three percent (3%) of the total gross value of any contract performed within the Reservation.. **(See Caltrans TERO Policy and Section 13.5 of the Title 13 TERO Ordinance, as Amended May 17, 2012.)**
8. **COMPLIANCE INSPECTIONS:** The Director of TERO or staff shall make periodic or site visitations for assurance to all involved parties that employment rules are adhered to. **(See Section 13.9 of the TERO Ordinance)**
9. **MAINTAINING EMPLOYMENT RECORDS: Employer** shall maintain accurate employment records on all employees and all applicants for employment; regardless of length and category of employment, hired, fired, or laid-off. The files shall reflect: name, address and employment category for which applicant performed or applied to perform. If applicant was contacted but not hired, hired and fired, all data should reflect action taken by that firm. Such informational records shall be made available to the Director of TERO, upon reasonable notice.
10. **ASSISTANCE:** If an **Employer** deems that an Indian employee's performance is such that he or she is jeopardizing and endangering job loss, suspension, termination. **Employer** may contact TERO to provide assistance toward resolving of that issue.
11. **UNIONS:**
 - A. Pursuant to congressional intent of the Indian Self-Determination and Education Assistance Act [P.L. (93-638) at Section 7(b)] Indian preference in employment and training shall prevail in all employment activity, within the boundaries of the Hoopa Valley Indian Reservation.
 - B. Therefore **Employer** hereby agree to request all involved affiliated firms, mirror Indian preference priority, in all aspects of employment.
12. **EMPLOYMENT POLICIES AND PROCEDURES:** It is further understood that **Employer** recognizes that its operations are taking place within a unique cultural setting on the Hoopa Valley Indian Reservation. Accordingly, all firms in conjunction with the Director of TERO, consider seriously Tribal Holidays, and ceremonial customs; and to accommodate those Indian employees requesting certain leave of absences for religious purposes.
13. **CURTAILMENT:** Curtailment regarding Indian preference, local Indians and Indians shall be the last employees to be laid-off. This reference is made outside of core crew positions, this is to say where Indians meet threshold requirements for a given position.

14. PRE-AWARD LABOR FORCE PROJECTION

 Contractor and/or Sub-Contractor (Firm Name) Telephone Number
 Name of Project: _____

 Contract Number

Briefly describe the basic tasks and type of work to be performed:

Please list types of skills and categories which will be required towards performing said contract.

- | | |
|----------|-----------|
| 1. _____ | 7. _____ |
| 2. _____ | 8. _____ |
| 3. _____ | 9. _____ |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

Indian preference shall be accorded at every Tier Level. Please list the names and positions of your Key Staff per Section 13.7.1 of Title 13 TERO Ordinance, As Amended May 17, 2013. The key employee is one who is in a top supervisory position or performs a critical function such that an employer would risk likely financial damage or loss if that task were assigned to one person unknown to the employer.

NAME	JOB TITLE
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____
6. _____	_____
7. _____	_____
8. _____	_____
9. _____	_____
10. _____	_____
11. _____	_____
12. _____	_____
13. _____	_____
14. _____	_____
15. _____	_____

(Please utilize as many sheets necessary for expressing your on-site employment related projection.)

15. DURATION: This agreement shall remain in effect for a period of one year from the date signed by TERO Director below:

 Date

 Owner/Representative's Signature

 EFFECTIVE DATE

 Signature of TERO Director

INFORMATION HANDOUT

For Contract No. 01-0B2404
At 01-HUM-VAR-VAR

Identified by
Project ID 0112000007

AGREEMENTS

PLAC - Hoopa Valley Tribe Memorandum of Understanding (MOU) Tribal Employment Rights Ordinance (TERO)

MOU 15-2
Attachment A - Hoopa Valley Tribe TERO Provisions
Attachment B - TERO Highway Construction Permit (THCP) Application

PLAC - Yurok Tribe Memorandum of Understanding (MOU) Tribal Employment Rights Ordinance (TERO)

MOU 15-3
Attachment A - Yurok TERO Provisions
Attachment B - TERO Highway Construction Permit (THCP) Application



MATERIALS INFORMATION

Asbestos and Lead-Containing Paint Survey Report South Fork Van Duzen River Bridge (04-0119) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report Blue Lake Undercrossing (04-0193) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report East Fork Willow Creek Bridge (04-0115) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report 14th Street Overcrossing (04-0245) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report Airport Road Undercrossing (04-0169 L/R) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report North Central Avenue Undercrossing (04-0095 L/R) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report Boyes Creek Viaduct Delbert A. Brown Memorial Bridge (04-0286) dated July 27, 2011

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The Yurok Tribe (**Tribe**) and the State of California Department of Transportation (**Caltrans**), in order to coordinate and carry out their respective functions and duties regarding Indian Employment Preference on State highway construction projects on lands within the Yurok Tribe reservation (**Tribal Lands**), do hereby enter into this Memorandum of Understanding (**MOU**).

This **MOU** constitutes a guide to the respective intentions, obligations, and policies of the **Tribe** and **Caltrans** in entering into this agreement. It is not intended to be used as a sole basis for authorizing funding, nor is it a legally binding contract upon either party.

Contract 01-0B2401 proposes work in multiple locations. This MOU is limited to the postmiles listed below:

Contract No.	Project County-Route-Postmile	Work Description	Yurok Tribal Lands	Yurok IRR Inventory
01-0B2401	HUM 169-27.0	Bridge Deck Repair	Hum 169-All	Hum 169-All

I. INDIAN EMPLOYMENT PREFERENCE AND TERO FEE

A. Recitals

1. Section 122 of the Surface Transportation and Uniform Relocation Assistance Act of 1987, Pub. L. 100-17, 23 USC ss. 140(d), recognizes the establishment of Indian Employment Preferences in the Federal Aid Highway Program.
2. The **Tribe** has enacted certain tribal employment rights policies included within the Yurok Tribe **Tribal Employment Rights Ordinance** establishing a tribal employment rights function and mandating Indian

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Employment Preferences on State construction projects and in other forms of employment within the Reservation.

3. The parties hereto recognize that Caltrans shall employ the services of one or more independent contractors in order to accomplish all or some of the activities necessary for State highway construction on **Tribal Lands**.
4. **Caltrans** and the **Tribe** desire to promote Indian employment by
 - a) applying Indian Employment Preferences to the State's contractors for highway work conducted on **Tribal Lands** or on any State highway included in the **Tribe's** Indian Reservation Road (IRR) Inventory when a portion of the project is on Tribal Lands, and
 - b) establishing a mechanism to ensure that the **Tribe** receives TERO Fees, of 3% of the contract award amount, for the portion of the project that is on **Tribal Lands**.
5. The parties desire to clarify the rights and obligations of the **Tribe**, **Caltrans**, and prospective bidders and contractors who may perform work on **Tribal Lands** for State highway construction contracts.

B. Statement Of Intent

1. **Caltrans** shall inform prospective bidders of the Tribal, State, and Federal laws with respect to Indian Employment Preferences by inserting provisions (Attachment A) in its information to prospective bidders. These provisions shall become part of the State highway construction contract. The provisions shall require
 - a) submittal of TERO Highway Contract Permit (THCP) to Tribe within 5 days after Contract Approval
 - b) a 45-day delayed start to allow for Contractor submittals to and from Tribe and Contractor submittal of completed THCP to Engineer

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2. **Caltrans** shall not allow the contractor to begin work until the contractor has obtained, from the **Tribe**, a TERO Highway Contract Permit (Attachment B) from The TERO officer of the **Tribe**.
 3. The TERO Officer of the **Tribe** shall work with Caltrans and Caltrans' contractor to process the TCHP in a timely manner and ensure that there is no delay in either beginning work or in providing qualified candidates to meet the contractor's personnel needs. The Tribe shall return the completed THCP to the contractor within 30 days of receiving the application.
 4. Immediately after Contract Approval, **Caltrans** shall provide the TERO officer of the Tribe with all documentation necessary for the Tribe to properly invoice Caltrans for the TERO Fee. The **Tribe** shall invoice **Caltrans** for the TERO Fee, 3% of the total bid amount, within 15 days after issuing the THCP. Upon receipt of an invoice for the TERO Fee, Caltrans shall forward the invoice to Accounting within 7 days and make prompt payment of the TERO Fee to the Tribe.
 5. **Caltrans** and the **Tribe** shall make a reasonable effort to conduct joint investigations and share information. Nothing in this **MOU** shall be construed to restrict the authority of the **Tribe**, either to initiate enforcement actions in the Tribal Court or to amend Tribal laws.

II. TERO PROVISIONS – Pertaining to Contracted State Highway Work

Listed below are those provisions from the Yurok TERO Ordinance that pertain to State Highway Work. Inapplicable sections or provisions are indicated by “N/A”.

Yurok Tribe
Tribal Employment Right Ordinance
Approved: October 22, 2003
Amended: June 9, 2005

SUBJECT: Establishment of the Yurok Tribal Employment Rights Office (TERO) and adoption of standards and procedural guidelines for application of Yurok and Indian Preference in Employment.

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- 1.4 Consistency with Federal Laws

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SECTION 19.0 EXCLUSIVITY OF REMEDY

SECTION 1.0 SHORT TITLE

The short title of this ordinance shall be the "Yurok Tribal Employment Rights Office Ordinance," or Yurok TERO Ordinance.

1.1 AUTHORITY

This Ordinance is established by the Yurok Tribal Council pursuant to the authority delegated to the Tribal Council by Article IV, Section 5(a) of the Constitution of the Yurok Tribe.

1.2 JURISDICTION

The jurisdiction of the Yurok Tribe to enforce the TERO ordinance shall extend to (. . . N/A . . .) the area within the exterior boundaries of the "reservation" as defined in Article I, sections 1 through 3 of the Constitution of the Yurok Tribe. Additionally, the Tribe retains jurisdiction to enforce provisions of the TERO ordinance for all projects initiated or taken over by the Yurok Indian Housing Authority, whether on, or off, the Yurok reservation.

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1.3 STATEMENT OF PURPOSE

The Yurok Tribal Council operates under a constitutional mandate to protect the sovereignty of the Yurok Tribe and to provide for the cultural, social, and economic well being of current and future Yurok tribal members. In fulfillment of its duty to guarantee the unique employment rights of all Yurok tribal members and other Indians within its jurisdiction, the Yurok Tribal Council hereby creates a Tribal Employment Rights Office, (TERO) and establishes standards and procedural guidelines to assure 1) equal and effective application of this Ordinance; and 2) due process for all individuals affected by the application of its requirements.

1.4 CONSISTENCY WITH FEDERAL LAWS

Indians have unique and special employment rights, and are entitled to the protection of laws established by the federal government to combat employment discrimination on or near Indian reservations, including the following:

- 1.4.1 Title VII of the civil Rights Act, including Section 703(i), which makes Indian preference in employment permissible.
- 1.4.2 Executive Order 11246 of the Federal Office of Contract Compliance, which exempts from the general requirements policies extending preference in employment for Indians living on or near an Indian Reservation, and which further prohibits discrimination among Indians as a group on the basis of religion, sex, or tribal affiliation. E.O. 11246 applies only to employers working under federal contracts.
- 1.4.3 The Indian Self-Determination Act, Section 7(b) of Public Law 93-638 which provides for Indian Preference in employment and training, and contracting or subcontracting on all contracts negotiated or let on behalf of an Indian Tribe.
- 1.4.4 The Indian Civil Rights Act of 1968 (ICRA) which prohibits Indian tribal governments from enacting or enforcing laws that violate certain individual rights similar to those individual rights guaranteed under the Bill of Rights of the United States Constitution.

SECTION 2. DEFINITIONS

- 2.1 "CHAIRPERSON" means the Chairperson of the Yurok Tribal Council.

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- 2.2 **"COMMERCE"** means the exchange or provision of goods, services and/or property, or the offer of same, without reference to the locality where transaction is conducted or consummated.
- 2.3 **"COMMUTE"** means the distance in miles, one way, customary for the occupation and region.
- 2.4 **"CORE EMPLOYEE"** means an employee who performs an essential job function and has been identified as an employee who is vital to the success of the endeavor. (Core Employees should be identified in coordination with the TERO Office and employer possesses records of past employment as a supervisor or foreman).
- 2.5 **"TRIBAL COUNCIL" or "COUNCIL"** means the Yurok Tribal Council.
- 2.6 **"COVERED EMPLOYER"** means any person, company, contractor, subcontractor *or* entity located *or* engaging in commercial or employment activity on the Yurok Indian Reservation, and which employs two or *more* persons, including the Yurok Tribe, regardless of where the activity occurs.
- 2.7 **"EMPLOYEE"** means any non-supervisory employee in a non-managerial position working on the Yurok Indian Reservation or its contiguous lands.
- 2.8 **"EXECUTIVE DIRECTOR"** means the administrative officer designated by the Tribal Council as such.
- 2.9 **"GRANDFATHERING"** means providing an exception to a restriction that allows all those already doing something to continue, even though it may be otherwise prevented by the restriction.
- 2.10 **"INDIAN"** means an enrolled member of any federally recognized Indian tribe.
- 2.11 N/A
- 2.12 **"INDIAN PREFERENCE"** means the policy of extending preference in employment or training opportunities to Yurok Tribal Members and other Indians, regardless of tribal affiliation, over non-Indians: (. . . N/A . . .)

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- 2.13 **"LOCATED ON OR NEAR THE YUROK RESERVATION"** means located within what a reasonable, prudent person would construe as the normal commuting distance from a location off the reservation to the exterior boundaries of the Yurok Indian Reservation as defined in Article I, Sections 1 through 3 of the Constitution of the Yurok Tribe.
- 2.14 **"NOTICE"** means that notification required to be given by the Yurok TERO Officer, the appointed tribal judge, the Tribal Council sitting as the interim final appeal body, or the Tribal Court acting as the body of final appeal regarding TERO related activities.
- 2.15 **"PERSON"** means both natural persons and artificial persons including, but not limited to, corporations, trusts, partnerships, unions, agents, societies, and sole proprietorships.
- 2.16 **"QUALIFIED INDIAN"** means an Indian who meets the requirements for a position as determined by the job requirements, the minimum qualifications statements for the position, and, for internal tribal hiring only, the final interview process. No employer may utilize any employment criteria not legitimately-related to the performance of the position.
- 2.17 N/A
- 2.18 **"SECRETARY"** means the Secretary of the United States Department of the Interior, or his/her duly-authorized and designated representative.
- 2.19 **"TERO OFFICER"** means the administrative officer employed by the Tribe to oversee and ensure compliance with the TERO Ordinance. The TERO Officer shall have the authority, for good cause shown, to impose sanctions and to issue stop work orders for reasons of non-compliance.
- 2.20 **"TRIBE"** means the federally recognized Yurok Tribe of the Yurok Reservation, operating under the authority of the Yurok Constitution.
- 2.21 **"UNION" or "LABOR UNION"** means any organization, of any kind, or any agency of employee representation committee or plan, associated or organized for the purposes of collective bargaining for the benefit of employees and that exists for the purpose, in whole or part, of dealing with employers concerning grievances, working conditions, or terms of employment.

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2.22 "YUOK RESERVATION" means all lands within the exterior boundaries of the Yurok Reservation. (N/A)...

2.23 N/A

SECTION 3.0 N/A

SECTION 4. THE YUOK TRIBAL EMPLOYMENT RIGHTS OFFICE

4.1 Establishment of Office and Hiring of TERO Officer(s)

The Yurok Tribal Council hereby establishes the Yurok Tribal Employment Rights Office (hereinafter TERO Office). The TERO Office is vested with the authority to implement the provision of this Ordinance. The Yurok Tribe Executive Director shall both hire the TERO Officer(s), and serve as his/her/their direct supervisor.

4.2 Coverage. All employers are required to give preference to Indians in hiring, promotion, training, temporary reductions in work force and all other aspects of employment, (. . . N/A . . .), and must comply with this Ordinance and the rules, regulations and orders of the Tribal Council.

4.3 Duties of the TERO Administrative Officer

The TERO Officer shall be charged with the overseeing the implementation and enforcement of this Ordinance, as well as day-to-day operations of the TERO office. The TERO Officer's duties include, but are not limited to, ensuring that Indian preference in employment is fully implemented by covered employers; and preventing any person from engaging in any unlawful practice that would interfere with application and/or enforcement of the provisions of this Ordinance.

4.4 TERO Officer Authority

The TERO Officer shall administer the policies and rules promulgated and adopted by the Tribal Council, and hold the powers and authorities prescribed by Council, including, but not limited to:

4.4.1 The authority to expend funds appropriated or obtained from various sources to carry out requirements of this Ordinance.

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- 4.4.2 The authority to impose numerical hiring goals and timetables on an employer specifying the minimum numbers of qualified Tribal members and qualified Indians to be hired by occupation, craft, or skill level.
- 4.4.3 N/A
- 4.4.4 The duty to create and maintain a Tribal skills bank for all eligible Tribal members and other Indians residing in the administrative area covered by this Ordinance.
- 4.4.5 The ability to restrict or prevent the hiring of (. . . N/A . . .) non-Indians until the TERO Officer certifies that qualified Tribal members or qualified Indians, as appropriate, are not available to fill the position in question.
- 4.4.6 N/A.
- 4.4.7 The ability to facilitate support programs to assist eligible Yurok Tribal members, the Yurok Tribal community and other Indians in obtaining and keeping employment.
- 4.4.8 The duty to recommend amendments or changes to the rules and regulations adopted by Council, or other actions necessary to achieve the purpose and objectives of the Yurok TERO established by this Ordinance.
- 4.4.9 The duty to locate training opportunities and programs designed to teach Yurok Tribal Members and other Indians skills and qualifications needed to obtain employment.
- 4.4.10 The TERO Officer shall have the authority to issue stop work orders and mandatory compliance orders when necessary either to achieve the goals of this Ordinance, or to compel compliance therewith. When necessary, the TERO Officer is also authorized to request assistance from the Yurok Tribe Office of Public Safety in enforcing any stop work order where circumstances in existence at the time of inspection reasonably warrant such intervention. The standard for whether assistance by Public Safety Officers is warranted is that of the reasonable person under the same or similar circumstances.

SECTION 5. APPLICABILITY AND COVERAGE

5.1 Applicability

Unless specifically prohibited by federal or Yurok Tribal law, this Ordinance shall apply to all employers, including but not limited to: the Tribal Council, (its

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programs, departments, entities, or enterprises); private employers; and independent contractors and subcontractors, including those performing work for the Council, the State of California, or the United States.

All employers shall extend an employment preference to qualified Indians, as provided in Section 5.4, in all aspects of employment, including but not limited to recruitment, hiring, promotion, lateral transfers, retentions, training, (. . . N/A . . .). No employer may recruit, hire, or otherwise employ any non-Indian for any employment position covered by this Ordinance, unless and until the TERO Officer has furnished written notice to such employer that no qualified Indians are available for such position.

5.2 Covered Positions

The Yurok Tribe Indian Employment Preference Policy Section 5.4 shall apply to every job classification, skill area, or craft recognized or utilized by an employer, including administrative, supervisory, and professional classifications.

5.3 Qualified Indians and Employment Criteria

An Indian shall be deemed qualified for employment in a position if he/she meets the minimum requirements for such position. Any qualified Indian shall be afforded the preference to which he/she is entitled under Section 5.4 of this Ordinance. No employer may utilize any employment criteria that is not legitimately related to the performance of the position; and that has not been approved by the Yurok TERO Officer.

5.4 Eligible Indians

(. . . N/A . . .) (A)ll enrolled members of federally-recognized Indian tribes, whether Yurok Tribal members or not, are eligible for employment equally.

SECTION 6. IMPLEMENTATION OF SPECIFIC INDIAN PREFERENCE REQUIREMENTS

6.1 Employers, Contractors, and Subcontractors

The requirements set forth in this Ordinance are binding on all employers, contractors, and subcontractors and will be considered a part of all resulting subcontract specifications. The employer bears the primary responsibility for compliance with the requirements of this Ordinance, and for ensuring that all contractors and subcontractors similarly comply.

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All employers, contractors, and subcontractors shall be subject to the penalties provided herein for non-compliance with the terms and requirements of this Ordinance. All employers, contractors and subcontractors shall include in their contracts clauses acknowledging the equal opportunity and Indian preference requirements contained in this Ordinance.

6.2 Goals and Timetables for Indian Employment

The TERO Officer will consult with individual employers engaged in commerce on, or near, the Yurok Reservation to establish the minimum number of qualified Tribal members and qualified Indians to be employed by each employer. Goals will be established for all job classifications and skill areas, and will include administrative, supervisory, and professional categories. The goals set will be expressed as:

- 6.2.1 Project hours of Tribal Members and Indian employment as a percentage of the total project hours worked by the regular work force for each specific job classification, skill level, or category.
- 6.2.2 Numerical goals based on surveys of the available Tribal member and Indian labor forces and projections of employment opportunities for each specific job classification, skill level, or category.

6.3 Training N/A.

6.4 Tribal Skills Bank and Referral Process

The TERO Officer shall, in cooperation with other tribal departments, establish and administer a data bank of Yurok Tribal members and other Indians seeking employment. This data bank shall be called the Tribal skills bank, and shall list all available workers, their respective skills and qualifications, and include documentation of training or other special qualifications and/or needs.

No employer may hire non-tribal members until a reasonable time for referral, as defined in this subsection, has elapsed or the TERO Office has certified, in writing, that no qualified (. . . N/A . . .) Indians are available to fill particular job openings.

"Reasonable time for referral" for purposes of this Ordinance means:

- (a) For construction jobs: the TERO Officer will locate and refer qualified Tribal members within 72 hours of the date and time of receiving the initial notice of available opening from the employer.

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(b) N/A

The TERO Officer may agree to waive or modify these requirements if there is a clear indication that the time limits would impose an undue burden on the project.

N/A

Employers found to be in violation of this Subsection will be subject to the penalties defined in Section 12 of this Ordinance and may further be required to remove any employees so hired.

6.5 N/A

6.6 N/A

6.7 N/A

6.8 N/A

6.9 N/A

6.10 Layoffs or Reductions in Workforce

6.10.1 N/A

6.10.2 Termination of Indians

No worker who is an Indian will be terminated due to a reduction in workforce if a non-Indian worker in the same job classification is still employed. If an employer lays off workers by crews, all qualified Indians must be transferred to other crews to be retained as long as non-Indians in the same job classification are employed elsewhere on the job site.

6.11 Consideration for Promotion

Every employer shall give Indians preferential consideration for all promotion opportunities, and shall encourage Indians to seek such opportunities. For every supervisory position filled by a non-Indian, the employer shall file a report with the TERO Office expressly indicating:

(a) What efforts were made to inform Indian workers about the position; and

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(b) How many Indians applied for the position; and

(c) The reason(s) why each Indian was not hired for the position.

6.12 N/A

SECTION 7. N/A

SECTION 8. THE YUOK TRIBAL EMPLOYMENT RIGHTS FEE

8.1 N/A

8.2 Fee Schedule

8.2.1 (. . . N/A . . .) a one-time fee of three-percent (3%) (of the contract award amount)

8.2.2 N/A.

8.3 Duties of TERO Officer/Method of Payment

The TERO Officer shall be responsible for collecting all TERO fees from covered employers.

8.3.1 The TERO fee shall be paid to the Yurok Tribe; and shall be credited to the account of the Yurok Tribe TERO for use in implementing this Ordinance; and shall be governed by guidelines approved by the Yurok Tribal Council.

8.3.2 N/A

8.3.3 The Yurok Tribe Fiscal Department shall be exempt from any TERO Fees.

8.3.4 N/A

8.3.5 N/A

SECTION 9. N/A

9.1 N/A

9.1.1 N/A

9.1.2 N/A

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9.1.3 N/A

9.1.4 N/A

9.1.5 N/A

9.1.6 N/A

9.2 N/A

SECTION 10. DUE PROCESS AND HEARINGS

10.1 Right to Hearings

An individual, employer, union, or the TERO Officer may request a hearing pursuant to either allegation(s) of a violation of this Ordinance; or that any rule, regulation, or order of the TERO Officer is believed to be erroneous or illegal.

10.2 Notice of Hearing

Whenever a hearing is requested by the TERO Officer, an individual, an employer, or a union, written notice thereof must be provided to all involved parties.

10.2.1 Said notice shall include:

- (a) The names
- (b) Names of whenever party or of all parties to an action; and those not yet party to an action, known; or whose identity as a potential parties would be discovered through the exercise of due diligence; and
- (c) The nature of the hearing; and
- (d) An express statement that the party or parties named have the right to be present at the hearing; and
- (e) An express statement that anyone named in the notice has the right to present testimony of witnesses or other evidence; and
- (f) An express statement that anyone named in the notice has the right to representation by counsel at their own expense; and
- (g) An express statement that the TERO Officer may be represented by General Counsel for the Yurok Tribe.

10.2.2 Notice shall be published in at least two newspapers of appropriate circulation. If the whereabouts of any party or parties is unknown, then:

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- (a) Notice shall be posted in a public place within the Yurok Reservation for not less than ten (10) working days; and
- (b) Notice shall be kept on file in the tribal offices located in Eureka, Weitchpec, and Klamath, available upon request; and
- (c) Notice shall also be posted in the Eureka, Weitchpec, and Klamath tribal offices and therefore, available for public inspection.

10.3 TERO Office Complaint Procedure

The TERO Officer may file a complaint on the basis of noncompliance with the requirements of this Ordinance by an employer, contractor, subcontractor, or union.

The TERO Officer may first attempt to resolve the matter informally, but if that is not possible or futile, the TERO Officer may request a hearing pursuant to subsection 10.1 of this Ordinance.

10.4 Individual Complaint Procedure

- 10.4.1** An individual may file a complaint with the TERO Office regarding any alleged violation on the part of an employer, contractor, subcontractor, or union. To substantiate a verbally-delivered complaint, the TERO Officer must request that the complainant submit the complaint in writing.
- 10.4.2** Upon receipt of a written complaint, the TERO Officer has an affirmative duty to investigate the allegations. Both the party or parties named as violators and the complainant will receive written notice stating that an investigation *will* be conducted and setting forth with specificity the factual basis for the complaint.
- 10.4.3** Once the investigation is complete, the TERO Officer will issue a written finding either sustaining or not sustaining the alleged violation(s). If the allegations are not sustained, the complaint shall be dismissed and written notice provided to all involved parties within ten (10) business days of the date of the finding. If the allegations are sustained, the TERO Officer shall issue written notice within ten (10) business days of the date of the finding to all involved parties.
- 10.4.4** If an allegation of a TERO violation is sustained, the TERO Officer will then request to meet informally with both the complainant and TERO violator in an attempt to resolve the issue. The request for a meeting can be made either in writing or telephonically. If telephonic, a log shall be kept at the Yurok TERO containing the date, time, and content of the conversation.

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10.4.5 If the matter cannot be resolved informally, either the parties or TERO Officer may request a hearing pursuant to Subsection 10.1.

10.4.6 Any employer, contractor, subcontractor, or union that takes retaliatory action against a Yurok tribal member or other Indian employee who has utilized this complaint procedure, or who asserts any rights under this Ordinance, will be subject to the penalties provided in section 12 of this Ordinance.

10.5 Complaint by an Employer or Union

10.5.1 Any employer or union may file a complaint with the Yurok Tribal Council alleging that a provision of this Ordinance, or any rule, regulation, or order of the TERO Office is illegal, erroneous, and/or erroneously applied.

10.5.2 Any such complaint must be in writing, and addressed to both the Tribal Council and TERO Officer. The complaint must specify, in detail, the basis for the complaint.

10.5.3 Upon receipt of the complaint, the Tribal Council, or its designee, shall schedule a hearing on the merits. To prevail at the hearing, the employer or union must establish prove their allegations by a preponderance of the evidence. Following the hearing, the Council must rule whether the allegation(s) is/are sustained or not sustained. The finding shall be forwarded within ten (10) business days of the date of the decision to all involved parties, along with notice of the right to appeal the decision of the Council to the Yurok Tribal Court.

10.6 Investigations

The TERO Officer and/or any field compliance officer designated by the Council may conduct such private or public investigations within the jurisdiction of this Ordinance, to determine the facts or the instances of alleged violations of this Ordinance. The TERO Officer and/or field compliance officer may enter the place of business or employment of any employer to conduct such investigations during regular business hours.

Investigations can include, but are not limited to: taking statements of workers on site or at the Yurok Tribal headquarters, whether by hand or recording device; taking photographs or video recordings of work areas and workers on any given site; requesting certified payroll records, proof of liability and workmen's compensation

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insurance, and any other regularly-kept business records relating to employee attendance and activity; making more than one site visit per day; taking statements, whether by hand or via a recording device, of community members having information about an employer's practices that formed the basis of a written complaint; and interviewing record-keeping staff of any respective employer.

10.7 Hearing Procedures

The following procedures will apply all hearings:

- 10.7.1 All parties may present testimony of witnesses and other evidence; and may be represented by counsel at their own expense.
- 10.7.2 The Tribal Council or TERO Officer, may receive advice and assistance from the Yurok Tribe's in-house legal counsel. Outside counsel, when deemed necessary by the Council, may also be consulted.
- 10.7.3 The hearing shall be governed by the rules of practice and procedure adopted by the Council. The Council shall not be bound by technical rules of evidence while conducting hearings, and no informality in any proceeding, including the manner of taking testimony, shall invalidate any order, decision, rule or regulation made, approved, or confirmed by the Council.
- 10.7.4 Depending on the type of hearing, the following person(s) may preside: The Chair or Vice Chair of the Tribal Council or a hearing officer appointed by the Tribal Council.
- 10.7.5 Any finding sustaining an allegation of violation by any party defendant must be supported by a preponderance of the evidence.
- 10.7.6 At the close of the hearing, the Council may take immediate action or take the matter under advisement and render a decision on a later date. If rendering of a decision is postponed, all parties shall be so notified, on the record, prior to adjourning the hearing session. If possible, a date by which a final decision will be rendered shall also be provided to all parties.
- 10.7.7 Any decision by a hearing officer, or hearing body, must be issued in writing, and submitted no more than thirty (30) days after the date of the conclusion of the hearing. It shall be served on all parties via certified mail, return-receipt requested, or in person. If service is accomplished in person, proof of receipt shall be achieved by having the recipient place their signature in a logbook

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bearing a brief description of the document(s) received. The logbook shall be kept at the Tribal headquarters in Klamath, California.

10.7.8 Official transcripts shall be made of every hearing conducted. Said transcript(s) shall be made available to any party wishing to appeal the decision of the Tribal Council or its designee for a fee of two-hundred-fifty-five dollars U.S. (\$250.00 U.S.). From time-to-time, this fee shall be adjusted without prior notice to account for increased market costs and inflation. Should the Yurok Tribal Council contract transcription services outside the Tribal facility, the rate shall be the market rate for that particular service provider. In the event the appellant is the TERO Officer and/or his/her designee, the fee for the transcript shall be waived unless the transcript is provided by a contract transcription services provider.

10.8 Appeals

10.8.1 Accurate records of all testimony, evidence, and other matters material to the issue on appeal presented at evidentiary hearings conducted by the Council or its designee.

10.8.2 Any final order of the Tribal Council may be appealed to the Yurok Tribal Court. On appeal, the case will be tried de novo.

10.8.3 The Notice of Appeal must:

- (a) Be filed, in writing, at the TERO Office within fifteen (15) days after the date of entry of the final order.
- (b) Identify the order and set forth the grounds upon which the request for a reversal or modification is sought.

10.8.4 Compliance with any order, which is the subject of a timely appeal, will be held in abeyance pending a decision on the matter by the Tribal Court. If an order under appeal is modified or set aside by the Tribal Court, the decision of the Tribal Court will be sent via certified mail, return-receipt requested, to all parties. Any amendments to this Ordinance ordered as a result of an appeal to the Tribal Court will be sent via certified mail, return-receipt requested, to employers, federal and state agencies, and other interested parties; and will be posted in public places on the Yurok Reservation.

10.9 Confidentiality

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10.9.1 All information collected pursuant to an investigation authorized under this Ordinance shall be kept confidential. Portions of hearings that involve the use or disclosure of confidential documents such as employee records shall be closed to the public, and files containing such confidential information shall be sealed. Such confidential information may only be obtained pursuant to a Tribal Court order following a hearing on an affidavit proving the necessity of disclosure.

10.9.2 Any person whose confidential information is sought shall be given sufficient notice in advance of disclosing such confidential information, so that the person may object to the disclosure.

SECTION 11. TERO COMPLIANCE

As of the effective date of this Ordinance, no new covered employer may commence work on the Yurok Indian Reservation without consulting with the Tribe through its TERO Office, and filing an acceptable (. . . N/A. . .) TERO Pre-Award Labor Force Projection Form.

SECTION 12. REPORTING AND ON-SITE INSPECTIONS

Each employer, as part of their compliance activity, shall submit monthly reports to the TERO Office, on a form provided by the TERO Officer, indicating the number of employees -including a separate tally of Indians -on its workforce; monthly hires and terminations and/or lay-offs; and other information as may be identified on the form.

An employer who fails to submit monthly reports shall be subject to sanctions.

The TERO Officer will have the authority to make on-site inspections during regular working hours in order to monitor compliance with this Ordinance, and any other rules, regulations, and/or order of the TERO Officer or Council. The TERO Officer or designated field compliance investigator has the right to inspect and copy all relevant records of any employer, signatory union, contractor, or subcontractor, to interview or speak to workers and otherwise conduct investigations on the job site. All information collected will be kept confidential unless or until disclosure is required during a hearing or appeal as provided in section 10.7.

SECTION 13. PENALTIES FOR VIOLATIONS

Any employer, contractor, subcontractor, or union who violates this Ordinance or the rules, regulations, or orders promulgated by the TERO Officer or Council will be subject to the following penalties for such violation:

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- (a) N/A
- (b) Payment of any back pay and damages to compensate any injured party.
- (c) Removal of any employees hired in violation of this Ordinance or the rules, regulations, and orders pertaining thereto.
- (d) An order requiring the employment, promotion, (. . . N/A . . .) of qualified Tribal members, and other Indians who suffered economic injury as a direct result of the violation.
- (e) Imposition of monetary civil penalties and fines.
- (f) An order mandating changes in procedure or policies necessary to eliminate or correct the violation.
- (g) An order mandating any other provision deemed necessary by the TERO Officer, the Council, or the Tribal Court to alleviate, eliminate, or compensate for any violation.

The maximum penalty that may be imposed is \$500.00 for each occurrence. Every day during which a violation exists shall be deemed a separate occurrence.

SECTION 14. ORDERS OF THE YUROK TRIBAL POLICE

The Yurok Tribe Office of Public Safety is expressly authorized and directed to enforce any cease and desist or related order issued by the TERO Officer, in-house legal department, or Council only when such order is supported by either a judicial decree, or order, from the Yurok Tribal Court. The Tribal police will not be civilly liable for enforcing such Tribal Court orders or judicial decrees, provided that the order or decree bears the signature of a judge of the Tribal Court.

SECTION 15. PUBLICATION OF ORDINANCE

The Council will notify all Covered Employers regarding the adoption of this Ordinance and their obligation to comply. All bid announcements issued by any tribal, federal, state, or other public or private entity shall contain a statement that the successful bidder will be required to comply with this Ordinance and all rules, regulations, and orders of the TERO Office and Tribal Council within its jurisdiction. Council will send copies of this Ordinance to every employer operating on, or near, the Yurok Reservation or its contiguous lands, as defined in this Ordinance; and to every covered employer within thirty (30) days of the effective date of this Ordinance.

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SECTION 16. SEVERABILITY

If any provision of this Ordinance, or its application to any person or circumstances, is held invalid by a court of appropriate jurisdiction, the remainder of the Ordinance or application of the provision to other persons or circumstances, shall not be affected thereby.

SECTION 17. EFFECTIVE DATE

This Ordinance shall be effective and enforceable from the date of its approval and adoption by the Yurok Tribal Council.

SECTION 18. SOVEREIGN IMMUNITY

Nothing in the enactment, contents, administration, or enforcement of this Ordinance is intended to, nor shall, waive the sovereign immunity from unconsented suit of the Yurok Tribe, its officers, officials, employees, or agents acting within the course and scope of their official duties or authority, including, but not limited, to the following:

- (a) Taking legal action against any person to enforce or otherwise further the purposes of this Ordinance;
- (b) Defending legal action taken by another person to invalidate all or a portion of this Ordinance, or any actions taken under the authority of this Ordinance, for any failure to act under this Ordinance; or
- (c) Acting to enforce any penalties or sanctions under this Ordinance.

SECTION 19. EXCLUSIVITY OF REMEDY

The procedures, remedies, and forums set forth in this Ordinance are the sole and exclusive procedures, remedies, and forums for addressing any grievances, claims, or causes of action brought by any person pursuant to this Ordinance. The Tribe specifically does not consent to any grievances, claims, or causes of action other than those set forth in this Ordinance. By enacting this Ordinance, the Tribe is not creating any private causes of action.

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This **MOU** may be amended by written agreement of the parties, or terminated by either party upon reasonable written notice. In the event of termination, unless otherwise mutually agreed by the parties, the provisions of this **MOU** will remain in force with respect to any contract covered hereunder which has already been awarded or for which contractor performance has already commenced.

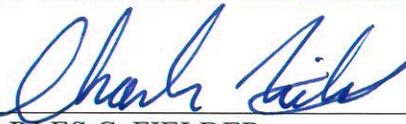
The parties hereto have agreed to the objectives, principles, and recitations cited in this document and have further approved this **MOU** for signature by their duly authorized representatives.

for the Yurok Tribe

By: 
THOMAS P. O'ROURKE Sr.
Chairman

Date: 3/16/15

for the CALIFORNIA DEPARTMENT OF TRANSPORTATION

By: 
CHARLES C. FIELDER
District Director, District 1

Date: 3/20/2015

ATTACHMENT A

Project-Specific Special Provisions for Yurok Tribe TERO 2014-2015 MOU

SPECIAL NOTICE:

- This project includes Tribal Employment Rights Ordinance (TERO) requirements. See section 5-1.20E and 8-1.04C for TERO submittal requirements.

SSP 2-1.06B SUPPLEMENTAL PROJECT INFORMATION

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included in <i>Information Handout</i>	Yurok Tribe TERO Memorandum of Understanding (MOU) with TERO Highway Construction Permit (THCP) Application

INFORMATION HANDOUT:

Yurok Tribe TERO Requirements Information Handout contains:

1. Signed one-time MOU between the Yurok Tribe and the Department.
2. Attachment A project-specific TERO special provisions.
3. Attachment B TERO Highway Construction Permit Application (THCP).

SSP 5-1.20G Tribal Employment Rights Ordinance Requirements:

Complete the Yurok Tribe TERO Highway Construction Permit (THCP) Application included in the *Information Handout*. Within 5 days after Contract approval, submit the completed application to the tribe and a copy of the submitted application to the Engineer.

Submit the executed THCP to the Engineer within 10 days after you receive it from the tribe.

SSP 8-1.04C:

Use a minimum 45-day delayed start after contract approval.

Do not start job site activities until the Department authorizes or accepts your submittal for:

Signed Yurok Tribe TERO Highway Construction Permit (THCP)

Do not start other job site activities until all the submittals from the above list are authorized or accepted and the following information is received by the Engineer:

Copy of the Yurok Tribe TERO Highway Construction Permit (THCP) Application submitted to the tribe.

ATTACHMENT B
TERO Highway Construction Permit (THCP)

YUROK TRIBE
TRIBAL EMPLOYMENT RIGHTS OFFICE
MEMORANDUM ON COMPLYING WITH TRIBAL AND FEDERAL EMPLOYMENT LAWS



The Tribal Employment Rights Office (TERO), on the Yurok Indian Reservation, has been implemented to assist employers, contractors, and/or subcontractors towards meeting the required rules and regulations of the Yurok Tribal Council, and the employment laws of the U.S. Government.

TERO HIGHWAY CONSTRUCTION PERMIT APPLICATION (THCP)

1. State Contractor (Employer) shall file a Yurok TERO Labor Force Projection Form with the TERO office for themselves and all subcontractors (Employer) listed on State contract bid form within five (5) days after contract approval.

2. If available, qualified Indians must be hired in preference to non-Indians. Employer shall neither recruit nor hire any non-Indians for any covered position until the Yurok TERO has provided written notice that no qualified Indians are available to fill such covered position. Covered positions are defined in the Yurok TERO Policy. Each waiver issued is only for that particular position/task and the employee cannot be transferred to another position once that job is done.

3. The Yurok TERO maintains an Indian Skill Bank to assist Employers to meet the Indian Preference requirements of the TERO Policy of the Yurok Tribe. Please note: "Core Crew" an employee who performs an essential job function and has been identified as an employee who is vital to the success of the endeavor. (Possessing records of past employment as proof as a supervisor or foreman).

PLEASE RETURN COMPLETED LABOR FORCE PROJECTION FORMS TO:

Don Barnes, TERO Officer
Yurok Tribe
190 Klamath Blvd.
Klamath, CA 95548
(707) 482-1350 ex 1388

ATTACHMENT B
TERO Highway Construction Permit (THCP)

**YUROK TRIBE
TRIBAL EMPLOYMENT RIGHTS OFFICE
LABOR FORCE PROJECTION FORM**



Prime employer and all subcontractors are required to submit the following information to the TERO:

Employer/Supplier Name: _____
Mailing Address: _____
City, State, and Zip Code: _____
Phone Number _____
Cell # _____
Contact: _____
Contract Number: _____
Amount of Contract: _____ \$ _____
Contracting With: _____

THIS IS AN AGREEMENT BETWEEN *THE YUROK TRIBE* AND EMPLOYER FOR CONDUCTING EMPLOYMENT ACTIVITY WITHIN THE EXTERIOR BOUNDARIES OF THE YUROK INDIAN RESERVATION AND YUROK TRIBAL "Lands".

EMPLOYER hereby agrees to comply with the requirements and procedures for the recruitment of viable Indian applicants through TERO.

TERO shall receive notice, in the form of copies of bid forms by awarded prime Employer seeking bids of all sub-contract work to be conducted on the Yurok Indian Reservation. Notice shall be made reasonably in advance of contract approval, but not later than five (5) days after approval.

The above named employer understands that they are required to comply with the portions of the Yurok Tribal Councils TERO *Ordinance* (amended June 9, 2005) listed in the Yurok Tribe/Caltrans TERO MOU.

COMPLIANCE INSPECTIONS: The TERO Officer or other designated staff shall make periodic or site visitations for assurance to all involved parties that employment rules are adhered to.

MAINTAINING EMPLOYMENT RECORDS: Employer shall maintain accurate employment records on all employees and all applicants for employment, regardless of length and category or employment, hired, fired, or laid-off. The files shall reflect: name, address and employment category for which applicant performed or applied to perform. If applicant was contacted but not hired, hired and fired, all data should reflect action

taken by that firm. Such informational records shall be made available to the TERO Officer, upon reasonable notice.

ASSISTANCE: If an Employer deems that an Indian employee's performance is such that he or she is jeopardizing and endangering job loss, suspension, or termination, Employer may contact TERO to provide assistance toward resolving of that issue.

EMPLOYMENT POLICIES AND PROCEDURES: It is further understood that Employer recognizes that its operations are taking place within a unique cultural setting on the Yurok Indian Reservation. Accordingly, all firms in conjunction with the TERO Officer should consider seriously Tribal Holidays and ceremonial customs, and to accommodate those Indian employees requesting certain leave of absences for religious purposes.

****This form must be completed and filed with the TERO. Attach additional sheets if necessary.***

Briefly describe the basic tasks and types of work to be performed:

Please list types of skills and categories which will be required towards performing said contract:

1.	7.
2.	8.
3.	9.
4.	10.
5.	11.
6.	12.

Indian Preference shall be accorded at every Tier Level. Please list the names and positions of your Core Crew. (Key staff). (Core Crew members are the vitally needed Supervisors that you depend on every day). All other persons needed on this job will go through the TERO Skills Bank.

NAME	JOB TITLE
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	

Note:

(Please utilize as many sheets as necessary for explaining your on-site employment related projection)

INFORMATION HANDOUT

For Contract No. 01-0B2404
At 01-HUM-VAR-VAR

Identified by
Project ID 0112000007

AGREEMENTS

PLAC - Hoopa Valley Tribe Memorandum of Understanding (MOU) Tribal Employment Rights Ordinance (TERO)

MOU 15-2
Attachment A - Hoopa Valley Tribe TERO Provisions
Attachment B - TERO Highway Construction Permit (THCP) Application

PLAC - Yurok Tribe Memorandum of Understanding (MOU) Tribal Employment Rights Ordinance (TERO)

MOU 15-3
Attachment A - Yurok TERO Provisions
Attachment B - TERO Highway Construction Permit (THCP) Application

MATERIALS INFORMATION

Asbestos and Lead-Containing Paint Survey Report South Fork Van Duzen River Bridge (04-0119) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report Blue Lake Undercrossing (04-0193) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report East Fork Willow Creek Bridge (04-0115) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report 14th Street Overcrossing (04-0245) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report Airport Road Undercrossing (04-0169 L/R) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report North Central Avenue Undercrossing (04-0095 L/R) dated June 28, 2013

Asbestos and Lead-Containing Paint Survey Report Boyes Creek Viaduct Delbert A. Brown Memorial Bridge (04-0286) dated July 27, 2011



Project No. S9300-01-212
June 28, 2013

Steve Werner, Task Order Manager
Caltrans District 1
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
SOUTH FORK VAN DUZEN RIVER BRIDGE (04-0119)
HUMBOLDT COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, E-FIS 01 1200 0007 (EA 01-0B2401)
TASK ORDER NO. 212, 01-HUM-36, PM 35.41

Dear Mr. Werner:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368 and Task Order No. 212, we have performed an asbestos and lead-containing paint (LCP) survey of the subject bridge in Humboldt County, California. The scope of services included surveying the bridge for suspect asbestos-containing materials (ACM) and lead-containing paint, collecting bulk ACM and yellow traffic striping samples, and submitting the samples to laboratories for analyses.

PROJECT DESCRIPTION

The project consists of the South Fork Van Duzen River Bridge (04-0119) at Post Mile (PM) 35.41 on Highway 36 in Humboldt County, California. We performed asbestos and LCP survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

GENERAL OBJECTIVES

The scope of services outlined in TO-212 included the determination of the presence and quantity of asbestos and LCP at the project location prior to various improvements. Assuming that no asbestos is added during future operations, our survey would satisfy National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements. 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.

BACKGROUND

Asbestos

The Code of Federal Regulations (CFR), 40 CFR 61, Subpart M, 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).

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 paint component would require waste characterization and appropriate disposal. Intact paint 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 representative total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTL) of 1,000 milligrams per kilogram (mg/kg); or 2) the representative 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 representative 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 representative 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 paint coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with paint. Torching of these materials may produce hazardous fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with lead-containing paint. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR §1532.1.

Architectural Drawings and Previous Survey Activities

We reviewed structure architectural plans provided by Caltrans prior to field activities. We did not observe specifications or notes regarding the use of asbestos-containing materials or lead paint in the architectural plans provided. Previous asbestos survey reports were not available for our review.

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 survey at the project location on June 4, 2013.

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 six bulk asbestos samples representing three suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-212 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.
- 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

Lead Paint

Four bulk paint samples were collected from suspect LCP (yellow traffic striping) observed at the project location. Mr. Watts field-composited the samples into two, 2-part composites (each representing a different paint scheme). We did not observe deteriorated LCP during our survey. At the direction of Caltrans, we did not include white traffic striping in our sampling. Our sampling procedures in accordance with TO-212 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

INVESTIGATIVE RESULTS

Asbestos

Chrysotile asbestos at a concentration of 35% was detected in samples representing approximately 5 square feet of nonfriable sheet packing used as shims on the bridge barrier rail systems.

No asbestos was detected in samples of the remaining suspect materials collected during our survey. Sample identification numbers, material descriptions, approximate quantities, friability assessments, and a summary of the analytical laboratory test results for asbestos are summarized below. Reproductions of the laboratory report and chain-of-custody documentation are attached.

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116				
Sample No.	Description of Material	Approximate Quantity	Friable	Asbestos Content
0119-1A and B	Expansion joint fill material	NA	NA	ND
0119-2A and B	Barrier rail shims	5 square feet	No	35%
0119-3A and B	Concrete	NA	NA	ND

NA = Not applicable (no asbestos detected)

ND = Not detected

Lead Paint

The composite sample representing intact yellow traffic striping exhibited a total lead concentration of 40,000 mg/kg.

The composite sample representing intact green paint applied to steel members of the bridge exhibited a total lead concentration of 140,000 mg/kg and a TCLP lead concentration of 230 mg/l.

Sample identification numbers, descriptions, peeling and flaking quantities, and a summary of the analytical laboratory test results for paint are summarized below. Reproductions of the laboratory reports and chain-of-custody documentation are attached.

Total and Soluble Lead				
Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Total Lead (mg/kg)	TCLP Lead (mg/l)
0119-P1A/B	Yellow traffic striping	Intact	40,000	---
0119-P2A/B	Green paint (steel)	Intact	140,000	230

mg/kg = milligrams per kilogram (EPA Test Method 6010B)

TCLP = Toxicity Characteristic Leaching Procedure (EPA Test Method 1311/6010B)

mg/l = milligrams per liter

--- = Not analyzed

RECOMMENDATIONS

Asbestos

NESHAP regulations do not require that asbestos-containing sheet packing (a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to renovation/demolition or be treated as hazardous waste. The sheet packing may also be reused or stored for subsequent reuse. However, activities causing *disturbance* of the sheet packing matrix (i.e., cutting, abrading, sanding, grinding, etc.) would require compliance with the Cal/OSHA asbestos standard (Title 8, CCR §1529).

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

Written notification to the North Coast Unified Air Quality Management District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

Lead Paint

Green paint 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.

Yellow traffic striping sampled during our survey would be classified as California hazardous based on lead content if separately stripped, blasted, or otherwise separated from the substrate. Geocon recommends that asphalt grindings that contain traffic striping be sampled and characterized as a separate waste stream.

We recommend that all paints at the project location (traffic striping, graffiti, graffiti abatement, signage, 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.

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 structure identified above. 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 structure 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.

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

Sincerely,

GEOCON CONSULTANTS INC.



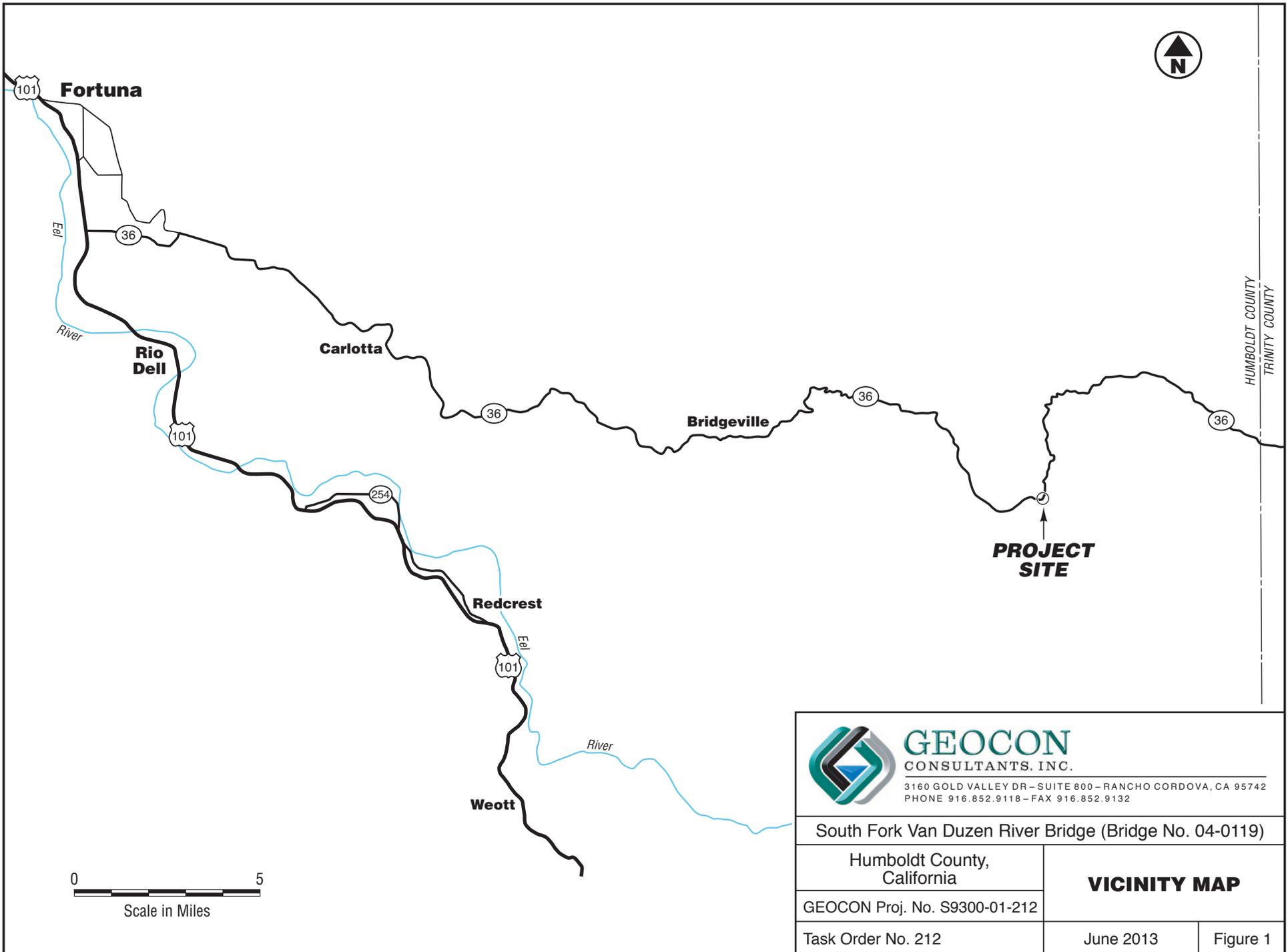
David A. Watts, CAC No. 98-2404
Senior Project Scientist



John E. Jurend, PE, CEG
Principal/Senior Engineer

(3 + 3 CD) Addressee

Attachments: Figure 1, Vicinity Map
 Figure 2, Site Plan
 Site Photographs (1 through 6)
 Analytical Laboratory Reports and Chain-of-custody Documentation




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South Fork Van Duzen River Bridge (Bridge No. 04-0119)

Humboldt County,
California

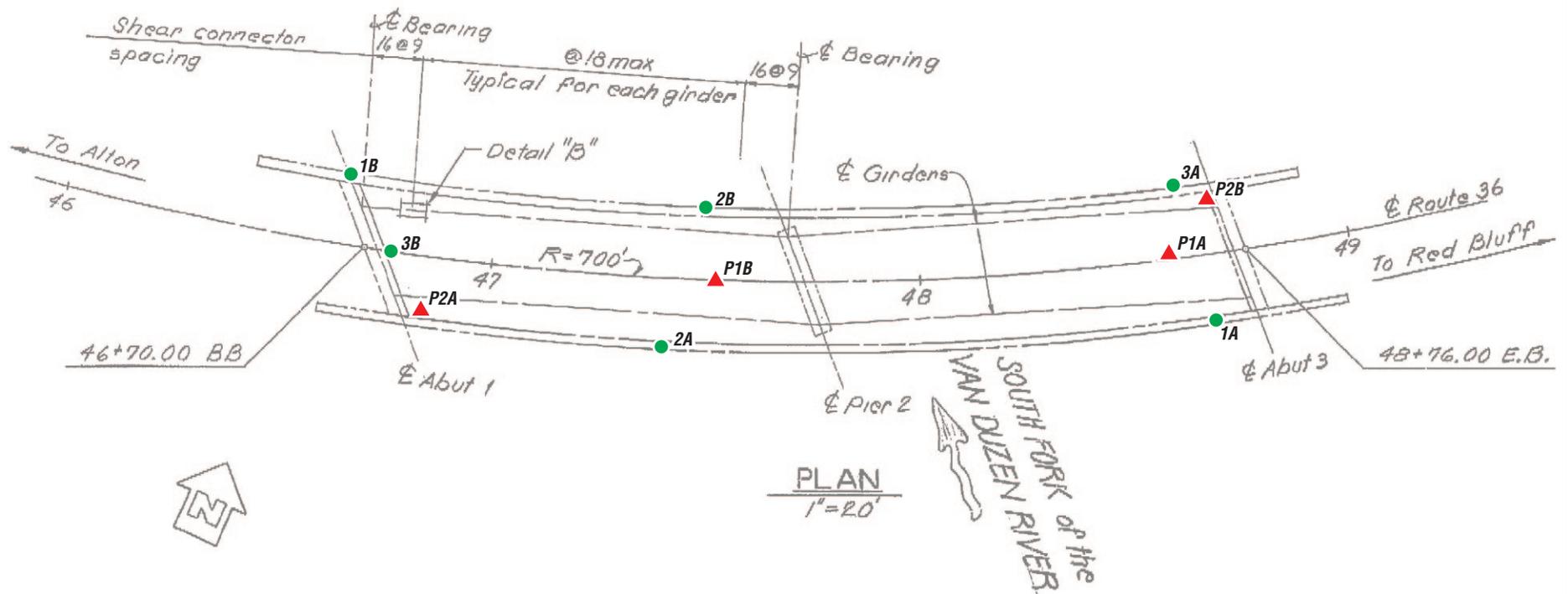
VICINITY MAP

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 1



LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location

NO SCALE



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South Fork Van Duzen River Bridge (Bridge No. 04-0119)

Humboldt County,
California

SITE PLAN

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 2



Photo 1 – South Fork Van Duzen River Bridge (04-0119)



Photo 2 – Expansion joint



Photo 3 – Bridge deck, barriers, and barrier rails (with asbestos sheet packing)



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PHOTOGRAPHS 1, 2, & 3

South Fork Van Duzen River Bridge (04-0119)
Humboldt County, California

S9300-01-212

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Photo 4 – West abutment



Photo 5 – Span and columns



Photo 6 – Truss and girder system



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PHOTOGRAPHS 4, 5, & 6

South Fork Van Duzen River Bridge (04-0119)
Humboldt County, California

S9300-01-212

June 2013



EMSL Analytical, Inc

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EMSL Order:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0169 L/R-1A-EJM <i>091308935-0001</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-1B-EJM <i>091308935-0002</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-2A-Sheet Packing <i>091308935-0003</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0169 L/R-2B-Sheet Packing <i>091308935-0004</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0169 L/R-3A- Concrete <i>091308935-0005</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0169 L/R-3B- Concrete <i>091308935-0006</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-1A-EJM <i>091308935-0007</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

 Matthew Batongbacal (43)

 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, WA C884

Initial report from 06/12/2013 17:30:34

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0095 L/R-1B-EJM <i>091308935-0008</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0095 L/R-2A-Sheet Packing <i>091308935-0009</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0095 L/R-2B-Sheet Packing <i>091308935-0010</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0095 L/R-3A- Concrete <i>091308935-0011</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-3B- Concrete <i>091308935-0012</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-1A-Asphalt Roofing Core <i>091308935-0013</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1A-Felt <i>091308935-0013A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected

Analyst(s)

*Matthew Batongbacal (43)*Baojia Ke, Laboratory Manager
or other approved signatory

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SPH-1B-Asphalt Roofing Core <i>091308935-0014</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1B-Felt <i>091308935-0014A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
SPH-2A-Concrete <i>091308935-0015</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-2B-Concrete <i>091308935-0016</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-1A-Asphalt Roofing Core <i>091308935-0017</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-1B-Asphalt Roofing Core <i>091308935-0018</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-2A-Concrete <i>091308935-0019</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

 Matthew Batongbacal (43)

 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, WA C884

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NPH-2B-Concrete <i>091308935-0020</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-3A-Sealant <i>091308935-0021</i>	SEALANT	Gray Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
NPH-3B-Sealant <i>091308935-0022</i>	SEALANT				Stop Positive (Not Analyzed)
0193-1A-Sheet Packing <i>091308935-0023</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0193-1B-Sheet Packing <i>091308935-0024</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0193-2A-Concrete <i>091308935-0025</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0193-2B-Concrete <i>091308935-0026</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-1A-EJM <i>091308935-0027</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected

Analyst(s)

 Matthew Batongbacal (43)

 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, WA C884

Initial report from 06/12/2013 17:30:34



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:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0115-1B-EJM <i>091308935-0028</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
0115-2A-Concrete <i>091308935-0029</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-2B-Concrete <i>091308935-0030</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1A-Concrete <i>091308935-0031</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1B-Concrete <i>091308935-0032</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1A-Concrete <i>091308935-0033</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1B-Concrete <i>091308935-0034</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____
 Matthew Batongbacal (43)

 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, WA C884

Initial report from 06/12/2013 17:30:34



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<http://www.emsl.com>

sanleandrolab@emsl.com

EMSL Order:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0023 L/R-1A-Concrete <i>091308935-0035</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-1B-Concrete <i>091308935-0036</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0119-1A-EJM <i>091308935-0037</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-1B-EJM <i>091308935-0038</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-2A-Sheet Packing <i>091308935-0039</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0119-2B-Sheet Packing <i>091308935-0040</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0119-3A-Concrete <i>091308935-0041</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____
 Matthew Batongbacal (43)

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, WA C884

Initial report from 06/12/2013 17:30:34



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Attn: **Dave Watts**
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6671 Brisa Street

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0119-3B-Concrete <i>091308935-0042</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2A-Pipe Wrap <i>091308935-0043</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2A-Coating <i>091308935-0043A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2B-Pipe Wrap <i>091308935-0044</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2B-Coating <i>091308935-0044A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____
 Matthew Batongbacal (43)

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, WA C884

Initial report from 06/12/2013 17:30:34



EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

091308935

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE. 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675
FAX: (510) 895-3680

Company: <u>Geocon</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>6671 BRISA ST.</u>		<small>Third Party Billing requires written authorization from third party</small>	
City: <u>LIVERMORE</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>94550</u>	Country: <u>USA</u>
Report To (Name): <u>P. WATTS</u>		Fax #: <u>925-371-5915</u>	
Telephone #: <u>925-371-5800</u>		Email Address: <u>WATTS@GEOCONINC.COM</u>	
Project Name/Number: <u>59300-01-212 Hum-101</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: <u>CA</u>	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
		TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	
		Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)	
		Other: <input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group (<u>> 1%</u>)			
Samplers Name: <u>D. WATTS</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
<u>01694/R-1A/B</u>	<u>EJM</u>	<u>NA</u>	<u>4 JUNE 2013</u>
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>	}	}
<u>↓ -3 ↓</u>	<u>CONCRETE</u>		
<u>00954/R-1A/B</u>	<u>EJM</u>	}	}
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>		
<u>↓ -3 ↓</u>	<u>CONCRETE</u>	}	}
<u>SPH-1A/B</u>	<u>ASPHALT ROOFING CORE</u>		
<u>↓ -2 ↓</u>	<u>CONCRETE</u>		
Client Sample # (s): _____		Total # of Samples: <u>44</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>6/5/13</u>	Time: <u>PM</u>
Received (Lab): <u>PER EX</u>		Date: <u>6/5/13</u>	Time: <u>9:00 AM</u>
Comments/Special Instructions: _____			

(OVER)



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

289805190

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675

FAX: (510) 895-3680

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

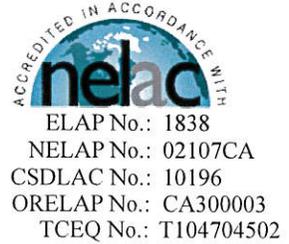
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
NPH-1A/B	ASPHALT ROOFING CORE	NA	4 June 2013
↓ -2 ↓	CONCRETE	↓	↓
↓ -3 ↓	SEALANT		
0193-1A/B	SHEET PACKING (SHIMS)		
↓ -2 ↓	CONCRETE		
0115-1A/B	EJM		
↓ -2 ↓	CONCRETE		
0245-1A/B	↓		
0024 L/R-1A/B	↓		
0023 L/R-1A/B	↓		
0119-1A/B	EJM		
↓ -2 ↓	SHEET PACKING (SHIMS)		
↓ -3 ↓	CONCRETE		
0023 L/R-2 ↓	ASPHALTIC PIPE WRAP		
*Comments/Special Instructions:			
2/6/7/13 9:00 AM			

(OVER)

ADVANCED TECHNOLOGY
LABORATORIES

June 21, 2013

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 961-5273
Fax: (925) 371-5915



Re: ATL Work Order Number : 1301674
Client Reference : Hum 101, S9300-01-212

Enclosed are the results for sample(s) received on June 07, 2013 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 be "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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www.atlglobal.com



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : Hum 101, S9300-01-212

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 06/21/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0169 L/R - P1A/B	1301674-01	Paint	6/04/13 0:00	6/07/13 13:02
0095 L/R - P1A/B	1301674-02	Paint	6/04/13 0:00	6/07/13 13:02
SPH - P1A/B	1301674-03	Paint	6/04/13 0:00	6/07/13 13:02
NPH - P1A/B	1301674-04	Paint	6/04/13 0:00	6/07/13 13:02
0193 - P1A/B	1301674-05	Paint	6/04/13 0:00	6/07/13 13:02
0115 - P1A/B	1301674-06	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P1A/B	1301674-07	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P2A/B	1301674-08	Paint	6/04/13 0:00	6/07/13 13:02
0024 L/R - P1A/B	1301674-09	Paint	6/04/13 0:00	6/07/13 13:02
0023 L/R - P1A/B	1301674-10	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P1A/B	1301674-11	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P2A/B	1301674-12	Paint	6/04/13 0:00	6/07/13 13:02



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

Total Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: PT

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	
									Analyzed	Notes
1301674-01	0169 L/R - P1A/B	1900	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:29	
1301674-02	0095 L/R - P1A/B	1200	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:31	
1301674-03	SPH - P1A/B	ND	mg/kg	5.1	NA	1	B3F0204	06/11/2013	06/12/13 09:34	
1301674-04	NPH - P1A/B	17	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:36	
1301674-05	0193 - P1A/B	530	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:37	
1301674-06	0115 - P1A/B	3.0	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:39	
1301674-07	0245 - P1A/B	3.9	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:42	
1301674-08	0245 - P2A/B	750	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:44	
1301674-09	0024 L/R - P1A/B	120	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:49	
1301674-10	0023 L/R - P1A/B	1500	mg/kg	2.0	NA	1	B3F0205	06/11/2013	06/12/13 10:03	
1301674-11	0119 - P1A/B	40000	mg/kg	100	NA	50	B3F0205	06/11/2013	06/12/13 10:58	
1301674-12	0119 - P2A/B	140000	mg/kg	200	NA	100	B3F0205	06/11/2013	06/12/13 11:00	



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

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 Limit	Notes
Batch B3F0204 - EPA 3050B									
Blank (B3F0204-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0204-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	47.6027	1.0	50.0000		95.2	80 - 120			
Duplicate (B3F0204-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	2.92715	1.0		2.98075	NR		1.81	20	
Matrix Spike (B3F0204-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	115.244	1.0	125.000	2.98075	89.8	51 - 106			
Matrix Spike Dup (B3F0204-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	117.987	1.0	125.000	2.98075	92.0	51 - 106	2.35	20	
Batch B3F0205 - EPA 3050B									
Blank (B3F0205-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0205-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	46.9914	1.0	50.0000		94.0	80 - 120			
Duplicate (B3F0205-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301674-10					
Lead	519.522	1.0		1537.86	NR		99.0	20	R
Matrix Spike (B3F0205-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	119.926	1.0	125.000	2.26712	94.1	51 - 106			
Matrix Spike Dup (B3F0205-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	122.519	1.0	125.000	2.26712	96.2	51 - 106	2.14	20	



Certificate of Analysis

Geocon Consultants, Inc.

6671 Brisa Street

Livermore, CA 94550

Project Number : Hum 101, S9300-01-212

Report To : Dave Watts

Reported : 06/21/2013

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
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY STUDY RECORD

- 1 of 1



**Advanced Technology
Laboratories**

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

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FEDEX <input checked="" type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: _____ Date: _____		

Client: GEOCON CONSULTANTS, INC.	Address: 6671 Brisa Street	TEL: (925) 371-5900
Attn: P. WATTS	City: Livemore State: CA Zip Code: 94550	FAX: (925) 371-5915

Project Name: Hum 101	Project #: 59300-01-212	Sampler: (Printed Name) D. WATTS	(Signature) <i>[Signature]</i>
Relinquished by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/5/13 Time: PM	Received by: (Signature and Printed Name) FED-EX	Date: 6/5/13 Time: PM
Relinquished by: (Signature and Printed Name)	Date: _____ Time: _____	Received by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/7/13 Time: 1302

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: P. WATTS 6/4/13 Print Name Date <i>[Signature]</i> Signature	Send Report To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: Paint chips (total Pb) Anticipate Soluble Requests
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

Sample/Records - Archival & Disposal				Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				Container(s)	TAT	#	Type	PRESERVATION	QA/QC	REMARKS		
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.					8091A (Pesticides)	8092 (PCB)	8200A (Volatiles)	8270C (BVA)								8010B (Total Metal)	8015B (GRO) / BTEX
LAB USE ONLY:	Batch #:	Sample Description															
I T E M	Lab No.	Sample I.D. / Location	Date	Time													
	130674 - 1	0169 L/R - P1A/B	6/4/13	VATC													
	- 2	0095 ↓															
	- 3	SPH -															
	- 4	NPH -															
	- 5	0193 -															
	- 6	0115 -															
	- 7	0245 -															
	- 8	↓ - P2A/B															
	- 9	0024 L/R - P1A/B															
	- 10	0023 L/R -															
	- 11	0119 -															
	- 12	↓ - P2A/B															

• TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
--------------------------------------------------------------------	---------------------------	---------------------------	------------------------	----------------------	-----------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------

Carmen Aguila

From: David Watts [watts@geoconinc.com]
Sent: Saturday, June 08, 2013 12:35 PM
To: DAW WK EMAIL
Cc: Carmen Aguila; Diane Galvan
Subject: Fwd: Hum 101, S9300-01-212

Sent from my iPhone

Begin forwarded message:

From: David Watts <watts@geoconinc.com>
Date: June 8, 2013, 10:56:06 AM PDT
To: Fernando Diwa <Fernando@atlglobal.com>
Subject: Re: Hum 101, S9300-01-212

0245-p2a/b is the red paint

All samples are 2-point field composites (A/B). Thx.

Sent from my iPhone

June 21, 2013

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 961-5273
Fax: (925) 371-5915



Re: ATL Work Order Number : 1301674
Client Reference : Hum 101, S9300-01-212

Enclosed are the results for sample(s) received on June 07, 2013 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 be '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.



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0119 - P2A/B	1301674-12	Paint	6/04/13 0:00	6/07/13 13:02



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

TCLP Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: CB

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1301674-12	0119 - P2A/B	230	mg/L	5.0	NA	100	B3F0394	06/19/2013	06/19/13 15:59	



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

QUALITY CONTROL SECTION

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3F0394 - EPA 3010A_SOIL									
Blank (B3F0394-BLK1)					Prepared: 6/19/2013 Analyzed: 6/19/2013				
Lead	ND	0.050							NR
Blank (B3F0394-BLK2)					Prepared: 6/19/2013 Analyzed: 6/19/2013				
Lead	ND	0.050							NR
LCS (B3F0394-BS1)					Prepared: 6/19/2013 Analyzed: 6/19/2013				
Lead	0.978407	0.050	1.00000		97.8	80 - 120			
Duplicate (B3F0394-DUP1)					Prepared: 6/19/2013 Analyzed: 6/19/2013				
Lead	0.050405	0.050		0.052581	NR		4.23	20	
Matrix Spike (B3F0394-MS1)					Prepared: 6/19/2013 Analyzed: 6/19/2013				
Lead	2.59189	0.050	2.50000	0.052581	102	76 - 109			
Matrix Spike Dup (B3F0394-MSD1)					Prepared: 6/19/2013 Analyzed: 6/19/2013				
Lead	2.75008	0.050	2.50000	0.052581	108	76 - 109	5.92	20	
Batch S3F0206 - B3F0394									
Instrument Blank (S3F0206-IBL1)					Prepared: 6/19/2013 Analyzed: 6/19/2013				
Lead	ND	0.050							NR



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

Notes and Definitions

ND Analyte not detected at or above reporting limit
PQL Practical Quantitation Limit
MDL Method Detection Limit
NR Not Reported
RPD Relative Percent Difference
CA1 CA-NELAP (CDPH)
CA2 CA-ELAP (CDPH)
OR1 OR-NELAP (OSPHL)
TX1 TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Diane Galvan

From: David Watts [watts@geoconinc.com]
Sent: Friday, June 14, 2013 4:48 PM
To: Diane Galvan
Subject: Re: Results/EDD/Invoice - Hum 101 (1301674)

Make sure all are listed as "-A/B"

All are a/b field composites. Thx.

Sent from my iPhone

On Jun 14, 2013, at 4:45 PM, David Watts <watts@geoconinc.com> wrote:

0119-p2a/b tclp.

5-day tat.

Thx.

Sent from my iPhone



Project No. S9300-01-212
June 28, 2013

Steve Werner, Task Order Manager
Caltrans District 1
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
BLUE LAKE UNDERCROSSING (04-0193)
HUMBOLDT COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, E-FIS 01 1200 0007 (EA 01-0B2401)
TASK ORDER NO. 212, 01-HUM-299, PM 5.5

Dear Mr. Werner:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368 and Task Order No. 212, we have performed an asbestos and lead-containing paint (LCP) survey of the subject bridge in Humboldt County, California. The scope of services included surveying the bridge for suspect asbestos-containing materials (ACM) and lead-containing paint, collecting bulk ACM and yellow traffic striping samples, and submitting the samples to laboratories for analyses.

PROJECT DESCRIPTION

The project consists of the Blue Lake Undercrossing (UC), (04-0193) at Post Mile (PM) 5.5 on Highway 299 in Humboldt County, California. We performed asbestos and LCP survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

GENERAL OBJECTIVES

The scope of services outlined in TO-212 included the determination of the presence and quantity of asbestos and LCP at the project location prior to various improvements. Assuming that no asbestos is added during future operations, our survey would satisfy National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements. 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.

BACKGROUND

Asbestos

The Code of Federal Regulations (CFR), 40 CFR 61, Subpart M, NESHAP and Federal Occupational Safety and Health Administration (FED OSHA) classify 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).

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 paint component would require waste characterization and appropriate disposal. Intact paint 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 representative total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTL) of 1,000 milligrams per kilogram (mg/kg); or 2) the representative 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 representative 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 representative 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 paint coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with paint. Torching of these materials may produce hazardous fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with lead-containing paint. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR §1532.1.

Architectural Drawings and Previous Survey Activities

We reviewed structure architectural plans provided by Caltrans prior to field activities. We did not observe specifications or notes regarding the use of asbestos-containing materials or lead paint in the architectural plans provided. Previous asbestos survey reports were not available for our review.

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 survey at the project location on June 4, 2013.

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 four bulk asbestos samples representing two suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-212 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.
- 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

Lead Paint

Two bulk paint samples were collected from suspect LCP (yellow traffic striping) observed at the project location. Mr. Watts field-composited the samples into one, 2-part composite. We did not observe deteriorated LCP during our survey. At the direction of Caltrans, we did not include white traffic striping in our sampling. Our sampling procedures in accordance with TO-212 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 the bulk LCP sample 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

INVESTIGATIVE RESULTS

Asbestos

Chrysotile asbestos at a concentration of 35% was detected in samples representing approximately 12 square feet of nonfriable sheet packing used as shims on the bridge barrier rail systems.

No asbestos was detected in samples of the remaining suspect materials collected during our survey. Sample identification numbers, material descriptions, approximate quantities, friability assessments, and a summary of the analytical laboratory test results for asbestos are summarized below. Reproductions of the laboratory report and chain-of-custody documentation are attached.

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116				
Sample No.	Description of Material	Approximate Quantity	Friable	Asbestos Content
0193-1A and B	Barrier rail shims	12 square feet	No	35%
0193-2A and B	Concrete	NA	NA	ND

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

Lead Paint

A composite sample representing intact yellow traffic striping exhibited a total lead concentration of 530 mg/kg.

The sample identification number, descriptions, peeling and flaking quantities, and a summary of the analytical laboratory test results for paint are summarized below. Reproductions of the laboratory reports and chain-of-custody documentation are attached.

Total Lead			
Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Total Lead (mg/kg)
0193-P1A/B	Yellow traffic striping	Intact	530

mg/kg = milligrams per kilogram (EPA Test Method 6010B)

RECOMMENDATIONS

Asbestos

NESHAP regulations do not require that asbestos-containing sheet packing (a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to renovation/demolition or be treated as hazardous waste. The sheet packing may also be reused or stored for subsequent reuse. However, activities causing *disturbance* of the sheet packing matrix (i.e., cutting, abrading, sanding, grinding, etc.) would require compliance with the Cal/OSHA asbestos standard (Title 8, CCR §1529).

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

Written notification to the North Coast Unified Air Quality Management District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

Lead Paint

Yellow traffic striping sampled during our survey would require soluble lead (WET and/or TCLP) analysis if separately stripped, blasted, or otherwise separated from the substrate. Geocon recommends that asphalt grindings that contain traffic striping be sampled and characterized as a separate waste stream.

We recommend that all paints at the project location (traffic striping, graffiti, graffiti abatement, signage, 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.

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 structure identified above. 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 structure 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.

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

Sincerely,

GEOCON CONSULTANTS INC.



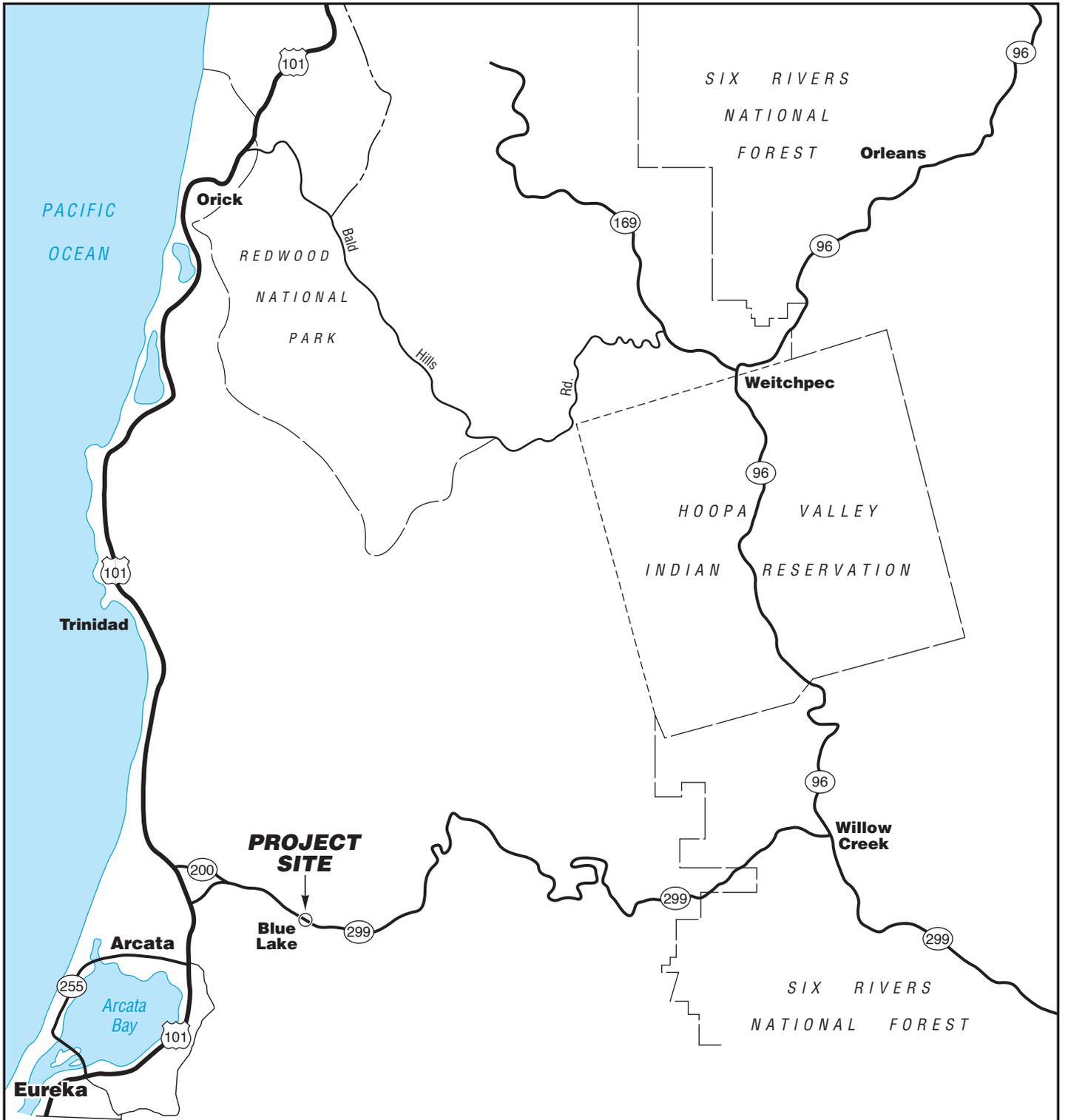
David A. Watts, CAC No. 98-2404
Senior Project Scientist



John E. Juhend, PE, CEG
Principal/Senior Engineer

(3 + 3 CD) Addressee

Attachments: Figure 1, Vicinity Map
 Figure 2, Site Plan
 Site Photographs (1 through 3)
 Analytical Laboratory Reports and Chain-of-custody Documentation



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Blue Lake Undercrossing (Bridge No. 04-0193)

Humboldt County,
California

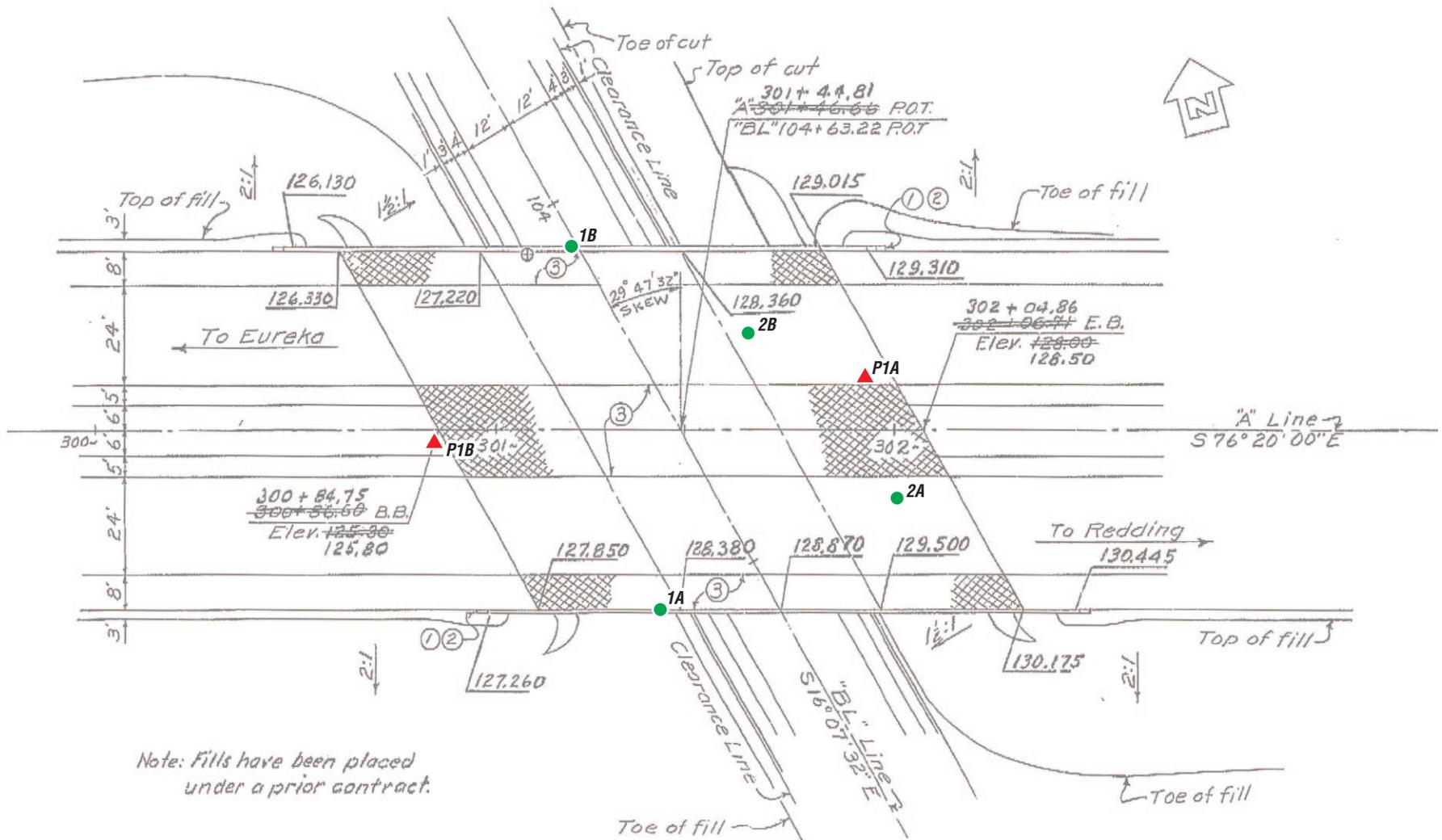
VICINITY MAP

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 1



Note: Fills have been placed under a prior contract.

LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location

NO SCALE



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Blue Lake Undercrossing (Bridge No. 04-0193)

Humboldt County,
California

SITE PLAN

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 2



Photo 1 – Blue Lake UC (04-0193)



Photo 2 – Bridge barrier rails (with asbestos sheet packing)



Photo 3 – Bridge deck



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR – SUITE 800 – RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 – FAX 916.852.9132

PHOTOGRAPHS 1, 2, & 3

Blue Lake UC (04-0193)
Humboldt County, California

S9300-01-212

June 2013



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:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0169 L/R-1A-EJM <i>091308935-0001</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-1B-EJM <i>091308935-0002</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-2A-Sheet Packing <i>091308935-0003</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0169 L/R-2B-Sheet Packing <i>091308935-0004</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0169 L/R-3A- Concrete <i>091308935-0005</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0169 L/R-3B- Concrete <i>091308935-0006</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-1A-EJM <i>091308935-0007</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)
 Matthew Batongbacal (43)

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. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 06/12/2013 17:30:34



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:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0095 L/R-1B-EJM <i>091308935-0008</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0095 L/R-2A-Sheet Packing <i>091308935-0009</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0095 L/R-2B-Sheet Packing <i>091308935-0010</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0095 L/R-3A- Concrete <i>091308935-0011</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-3B- Concrete <i>091308935-0012</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-1A-Asphalt Roofing Core <i>091308935-0013</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1A-Felt <i>091308935-0013A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected

Analyst(s)
 Matthew Batongbacal (43)

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, WA C884

Initial report from 06/12/2013 17:30:34



EMSL Analytical, Inc

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Attn: **Dave Watts**
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6671 Brisa Street

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
SPH-1B-Asphalt Roofing Core <i>091308935-0014</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1B-Felt <i>091308935-0014A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
SPH-2A-Concrete <i>091308935-0015</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-2B-Concrete <i>091308935-0016</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-1A-Asphalt Roofing Core <i>091308935-0017</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-1B-Asphalt Roofing Core <i>091308935-0018</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-2A-Concrete <i>091308935-0019</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
 Matthew Batongbacal (43)

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, WA C884

Initial report from 06/12/2013 17:30:34

**EMSL Analytical, Inc**

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

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EMSL Order:	091308935
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ProjectID:	

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

Livermore, CA 94550Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
NPH-2B-Concrete <i>091308935-0020</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-3A-Sealant <i>091308935-0021</i>	SEALANT	Gray Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
NPH-3B-Sealant <i>091308935-0022</i>	SEALANT				Stop Positive (Not Analyzed)
0193-1A-Sheet Packing <i>091308935-0023</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0193-1B-Sheet Packing <i>091308935-0024</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0193-2A-Concrete <i>091308935-0025</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0193-2B-Concrete <i>091308935-0026</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-1A-EJM <i>091308935-0027</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected

Analyst(s)

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Baojia Ke, Laboratory Manager
 or other approved signatory

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EMSL Order:	091308935
CustomerID:	GECN21
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ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0115-1B-EJM <i>091308935-0028</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
0115-2A-Concrete <i>091308935-0029</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-2B-Concrete <i>091308935-0030</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1A-Concrete <i>091308935-0031</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1B-Concrete <i>091308935-0032</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1A-Concrete <i>091308935-0033</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1B-Concrete <i>091308935-0034</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

 Matthew Batongbacal (43)

 Baojia Ke, Laboratory Manager
 or other approved signatory

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0023 L/R-1A-Concrete <i>091308935-0035</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-1B-Concrete <i>091308935-0036</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0119-1A-EJM <i>091308935-0037</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-1B-EJM <i>091308935-0038</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-2A-Sheet Packing <i>091308935-0039</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0119-2B-Sheet Packing <i>091308935-0040</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0119-3A-Concrete <i>091308935-0041</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____
 Matthew Batongbacal (43)

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 or other approved signatory

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Livermore, CA 94550Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0119-3B-Concrete <i>091308935-0042</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2A-Pipe Wrap <i>091308935-0043</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2A-Coating <i>091308935-0043A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2B-Pipe Wrap <i>091308935-0044</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2B-Coating <i>091308935-0044A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____
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Initial report from 06/12/2013 17:30:34



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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

091308935

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE. 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675
FAX: (510) 895-3680

Company: <u>Geocon</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>6671 BRISA ST.</u>		<i>Third Party Billing requires written authorization from third party</i>	
City: <u>LIVERMORE</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>94550</u>	Country: <u>USA</u>
Report To (Name): <u>P. WATTS</u>		Fax #: <u>925-371-5915</u>	
Telephone #: <u>925-371-5800</u>		Email Address: <u>WATTS@GEOCONINC.COM</u>	
Project Name/Number: <u>59300-01-212 Hum-101</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: <u>CA</u>	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
		TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	
		Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)	
		Other: <input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group (<u>> 1%</u>)			
Samplers Name: <u>D. WATTS</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
<u>01694/R-1A/B</u>	<u>EJM</u>	<u>NA</u>	<u>4 JUNE 2013</u>
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>		
<u>↓ -3 ↓</u>	<u>CONCRETE</u>		
<u>00954/R-1A/B</u>	<u>EJM</u>		
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>		
<u>↓ -3 ↓</u>	<u>CONCRETE</u>		
<u>SPH-1A/B</u>	<u>ASPHALT ROOFING CORE</u>		
<u>↓ -2 ↓</u>	<u>CONCRETE</u>		
Client Sample # (s): _____		Total # of Samples: <u>44</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>6/5/13</u>	Time: <u>PM</u>
Received (Lab): <u>PEDEX</u>		Date: <u>6/5/13</u>	Time: <u>9:00 AM</u>
Comments/Special Instructions: _____			

(OVER)



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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

289805190

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675

FAX: (510) 895-3680

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

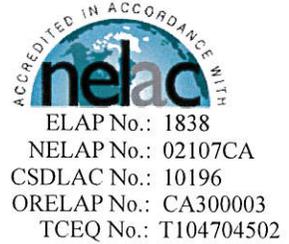
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
NPH-1A/B	ASPHALT ROOFING CORE	NA	4 June 2013
↓ -2 ↓	CONCRETE	↓	↓
↓ -3 ↓	SEALANT		
0193-1A/B	SHEET PACKING (SHIMS)		
↓ -2 ↓	CONCRETE		
0115-1A/B	EJM		
↓ -2 ↓	CONCRETE		
0245-1A/B	↓		
0024 L/R-1A/B	↓		
0023 L/R-1A/B	↓		
0119-1A/B	EJM		
↓ -2 ↓	SHEET PACKING (SHIMS)	↓	↓
↓ -3 ↓	CONCRETE		
0023 L/R-2 ↓	ASPHALTIC PIPE WRAP		
*Comments/Special Instructions:			
2/6/7/13 9:00 AM			

(OVER)

ADVANCED TECHNOLOGY
LABORATORIES

June 21, 2013

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 961-5273
Fax: (925) 371-5915



Re: ATL Work Order Number : 1301674
Client Reference : Hum 101, S9300-01-212

Enclosed are the results for sample(s) received on June 07, 2013 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 be '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.



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : Hum 101, S9300-01-212

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 06/21/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0169 L/R - P1A/B	1301674-01	Paint	6/04/13 0:00	6/07/13 13:02
0095 L/R - P1A/B	1301674-02	Paint	6/04/13 0:00	6/07/13 13:02
SPH - P1A/B	1301674-03	Paint	6/04/13 0:00	6/07/13 13:02
NPH - P1A/B	1301674-04	Paint	6/04/13 0:00	6/07/13 13:02
0193 - P1A/B	1301674-05	Paint	6/04/13 0:00	6/07/13 13:02
0115 - P1A/B	1301674-06	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P1A/B	1301674-07	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P2A/B	1301674-08	Paint	6/04/13 0:00	6/07/13 13:02
0024 L/R - P1A/B	1301674-09	Paint	6/04/13 0:00	6/07/13 13:02
0023 L/R - P1A/B	1301674-10	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P1A/B	1301674-11	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P2A/B	1301674-12	Paint	6/04/13 0:00	6/07/13 13:02



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

Total Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: PT

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	
									Analyzed	Notes
1301674-01	0169 L/R - P1A/B	1900	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:29	
1301674-02	0095 L/R - P1A/B	1200	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:31	
1301674-03	SPH - P1A/B	ND	mg/kg	5.1	NA	1	B3F0204	06/11/2013	06/12/13 09:34	
1301674-04	NPH - P1A/B	17	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:36	
1301674-05	0193 - P1A/B	530	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:37	
1301674-06	0115 - P1A/B	3.0	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:39	
1301674-07	0245 - P1A/B	3.9	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:42	
1301674-08	0245 - P2A/B	750	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:44	
1301674-09	0024 L/R - P1A/B	120	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:49	
1301674-10	0023 L/R - P1A/B	1500	mg/kg	2.0	NA	1	B3F0205	06/11/2013	06/12/13 10:03	
1301674-11	0119 - P1A/B	40000	mg/kg	100	NA	50	B3F0205	06/11/2013	06/12/13 10:58	
1301674-12	0119 - P2A/B	140000	mg/kg	200	NA	100	B3F0205	06/11/2013	06/12/13 11:00	



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

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 Limit	Notes
Batch B3F0204 - EPA 3050B									
Blank (B3F0204-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0204-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	47.6027	1.0	50.0000		95.2	80 - 120			
Duplicate (B3F0204-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	2.92715	1.0		2.98075	NR		1.81	20	
Matrix Spike (B3F0204-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	115.244	1.0	125.000	2.98075	89.8	51 - 106			
Matrix Spike Dup (B3F0204-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	117.987	1.0	125.000	2.98075	92.0	51 - 106	2.35	20	
Batch B3F0205 - EPA 3050B									
Blank (B3F0205-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0205-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	46.9914	1.0	50.0000		94.0	80 - 120			
Duplicate (B3F0205-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301674-10					
Lead	519.522	1.0		1537.86	NR		99.0	20	R
Matrix Spike (B3F0205-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	119.926	1.0	125.000	2.26712	94.1	51 - 106			
Matrix Spike Dup (B3F0205-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	122.519	1.0	125.000	2.26712	96.2	51 - 106	2.14	20	



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : Hum 101, S9300-01-212

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 06/21/2013

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
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY STUDY RECORD

- 1 of 1



**Advanced Technology
Laboratories**

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

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FEDEX <input checked="" type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: _____ Date: _____		

Client: GEOCON CONSULTANTS, INC.	Address: 6671 Brisa Street	TEL: (925) 371-5900
Attn: P. WATTS	City: Livermore State: CA Zip Code: 94550	FAX: (925) 371-5915

Project Name: Hum 101	Project #: 59300-01-212	Sampler: (Printed Name) D. WATTS	(Signature) <i>[Signature]</i>
Relinquished by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/5/13 Time: PM	Received by: (Signature and Printed Name) FED-EX	Date: 6/5/13 Time: PM
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/7/13 Time: 1302

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: P. WATTS 6/4/13 Print Name Date <i>[Signature]</i> Signature	Send Report To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: Paint chips (total Pb) Anticipate Soluble Requests
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

Sample/Records - Archival & Disposal				Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				Container(s)	PRESERVATION	QA/QC										
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.												TAT	#	Type							
I T E M	LAB USE ONLY:		Sample Description		SOIL WATER GROUND WATER WASTEWATER PAINT				#	Type	REMARKS										
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time	8091A (Pesticides)	8092 (PCB)	8200A (Volatiles)				8270C (BVA)	8010B (Total Metal)	8015B (GRO) / BTEX	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)				
	130674	-1	0169 L/R - P1A/B	6/4/13	VATC																
		-2	0095 ↓																		
		-3	SPH -																		
		-4	NPH -																		
		-5	0193 -																		
		-6	0115 -																		
		-7	0245 -																		
		-8	↓ - P2A/B																		
		-9	0024 L/R - P1A/B																		
		-10	0023 L/R -																		
		-11	0119 -																		
		-12	↓ - P2A/B																		

• TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
--------------------------------------------------------------------	---------------------------	---------------------------	------------------------	----------------------	-----------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------

Carmen Aguila

From: David Watts [watts@geoconinc.com]
Sent: Saturday, June 08, 2013 12:35 PM
To: DAW WK EMAIL
Cc: Carmen Aguila; Diane Galvan
Subject: Fwd: Hum 101, S9300-01-212

Sent from my iPhone

Begin forwarded message:

From: David Watts <watts@geoconinc.com>
Date: June 8, 2013, 10:56:06 AM PDT
To: Fernando Diwa <Fernando@atlglobal.com>
Subject: Re: Hum 101, S9300-01-212

0245-p2a/b is the red paint

All samples are 2-point field composites (A/B). Thx.

Sent from my iPhone



Project No. S9300-01-212
June 28, 2013

Steve Werner, Task Order Manager
Caltrans District 1
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
EAST FORK WILLOW CREEK BRIDGE (04-0115)
HUMBOLDT COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, E-FIS 01 1200 0007 (EA 01-0B2401)
TASK ORDER NO. 212, 01-HUM-299, PM 33.2

Dear Mr. Werner:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368 and Task Order No. 212, we have performed an asbestos and lead-containing paint (LCP) survey of the subject bridge in Humboldt County, California. The scope of services included surveying the bridge for suspect asbestos-containing materials (ACM) and lead-containing paint, collecting bulk ACM and yellow traffic striping samples, and submitting the samples to laboratories for analyses.

PROJECT DESCRIPTION

The project consists of the East Fork Willow Creek Bridge, (04-0115) at Post Mile (PM) 33.2 on Highway 299 in Humboldt County, California. We performed asbestos and LCP survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

GENERAL OBJECTIVES

The scope of services outlined in TO-212 included the determination of the presence and quantity of asbestos and LCP at the project location prior to various improvements. Assuming that no asbestos is added during future operations, our survey would satisfy National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements. 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.

BACKGROUND

Asbestos

The Code of Federal Regulations (CFR), 40 CFR 61, Subpart M, NESHAP and Federal Occupational Safety and Health Administration (FED OSHA) classify 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).

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 paint component would require waste characterization and appropriate disposal. Intact paint 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 representative total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTL) of 1,000 milligrams per kilogram (mg/kg); or 2) the representative 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 representative 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 representative 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 paint coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with paint. Torching of these materials may produce hazardous fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with lead-containing paint. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR §1532.1.

Architectural Drawings and Previous Survey Activities

We reviewed structure architectural plans provided by Caltrans prior to field activities. We did not observe specifications or notes regarding the use of asbestos-containing materials or lead paint in the architectural plans provided. Previous asbestos survey reports were not available for our review.

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 (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2013), performed the asbestos and LCP survey at the project location on June 4, 2013.

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 four bulk asbestos samples representing two suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-212 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.
- 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

Lead Paint

Two bulk paint samples were collected from suspect LCP (yellow traffic striping) observed at the project location. Mr. Watts field-composited the samples into one, 2-part composite. We did not observe deteriorated LCP during our survey. At the direction of Caltrans, we did not include white traffic striping in our sampling. Our sampling procedures in accordance with TO-212 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 the bulk LCP sample 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

INVESTIGATIVE RESULTS

Asbestos

No asbestos was detected in samples of suspect materials collected during our survey. Sample identification numbers, material descriptions, approximate quantities, friability assessments, and a summary of the analytical laboratory test results for asbestos are summarized below. Reproductions of the laboratory report and chain-of-custody documentation are attached.

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116				
Sample No.	Description of Material	Approximate Quantity	Friable	Asbestos Content
0115-1A and B	Expansion joint fill material	NA	NA	ND
0115-2A and B	Concrete	NA	NA	ND

NA = Not applicable (no asbestos detected)

ND = Not detected

Lead Paint

A composite sample representing intact yellow traffic striping exhibited a total lead concentration of 3.0 mg/kg.

The sample identification number, descriptions, peeling and flaking quantities, and a summary of the analytical laboratory test results for paint are summarized below. Reproductions of the laboratory reports and chain-of-custody documentation are attached.

Total Lead			
Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Total Lead (mg/kg)
0115-P1A/B	Yellow traffic striping	Intact	3.0

mg/kg = milligrams per kilogram (EPA Test Method 6010B)

RECOMMENDATIONS

Asbestos

Since no asbestos was detected in samples collected during our survey, the Cal/OSHA asbestos standard does not apply for planned activities. In addition, demolition debris would not be considered a California hazardous waste based on asbestos content. Written notification to the North Coast Unified Air Quality Management District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

Lead Paint

Yellow traffic striping sampled during our survey would not be classified as California or Federal hazardous if separately stripped, blasted, or otherwise separated from the substrate. Geocon recommends that asphalt grindings that contain traffic striping be sampled and characterized as a separate waste stream.

We recommend that all paints at the project location (traffic striping, graffiti, graffiti abatement, signage, 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.

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 structure identified above. 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 structure 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.

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

Sincerely,

GEOCON CONSULTANTS INC.



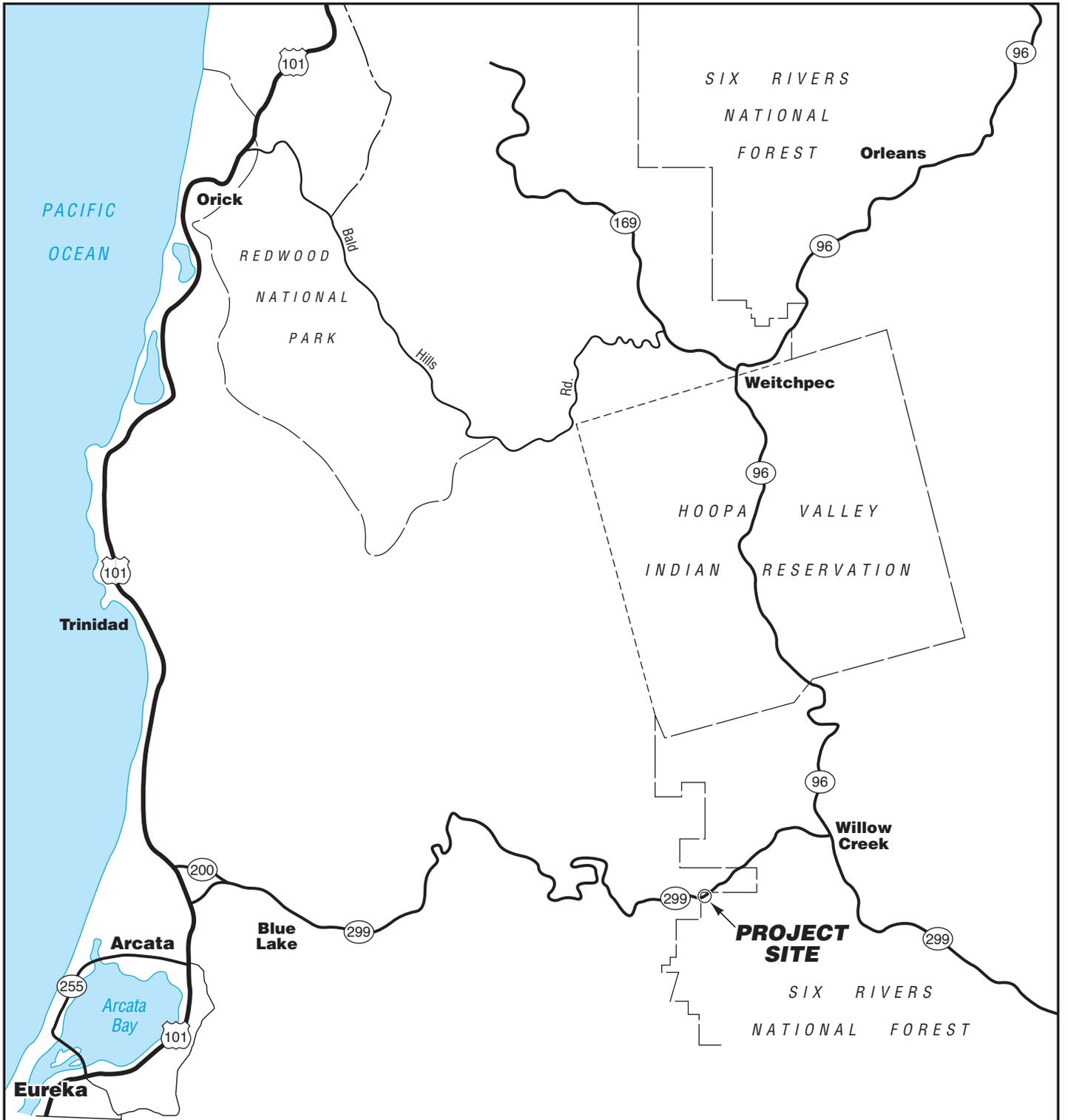
David A. Watts, CAC No. 98-2404
Senior Project Scientist



John E. Juhrend, PE, CEG
Principal/Senior Engineer

(3 + 3 CD) Addressee

Attachments: Figure 1, Vicinity Map
 Figure 2, Site Plan
 Site Photographs (1 through 3)
 Analytical Laboratory Reports and Chain-of-custody Documentation



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

East Fork Willow Creek (Bridge No. 04-0115)

Humboldt County,
California

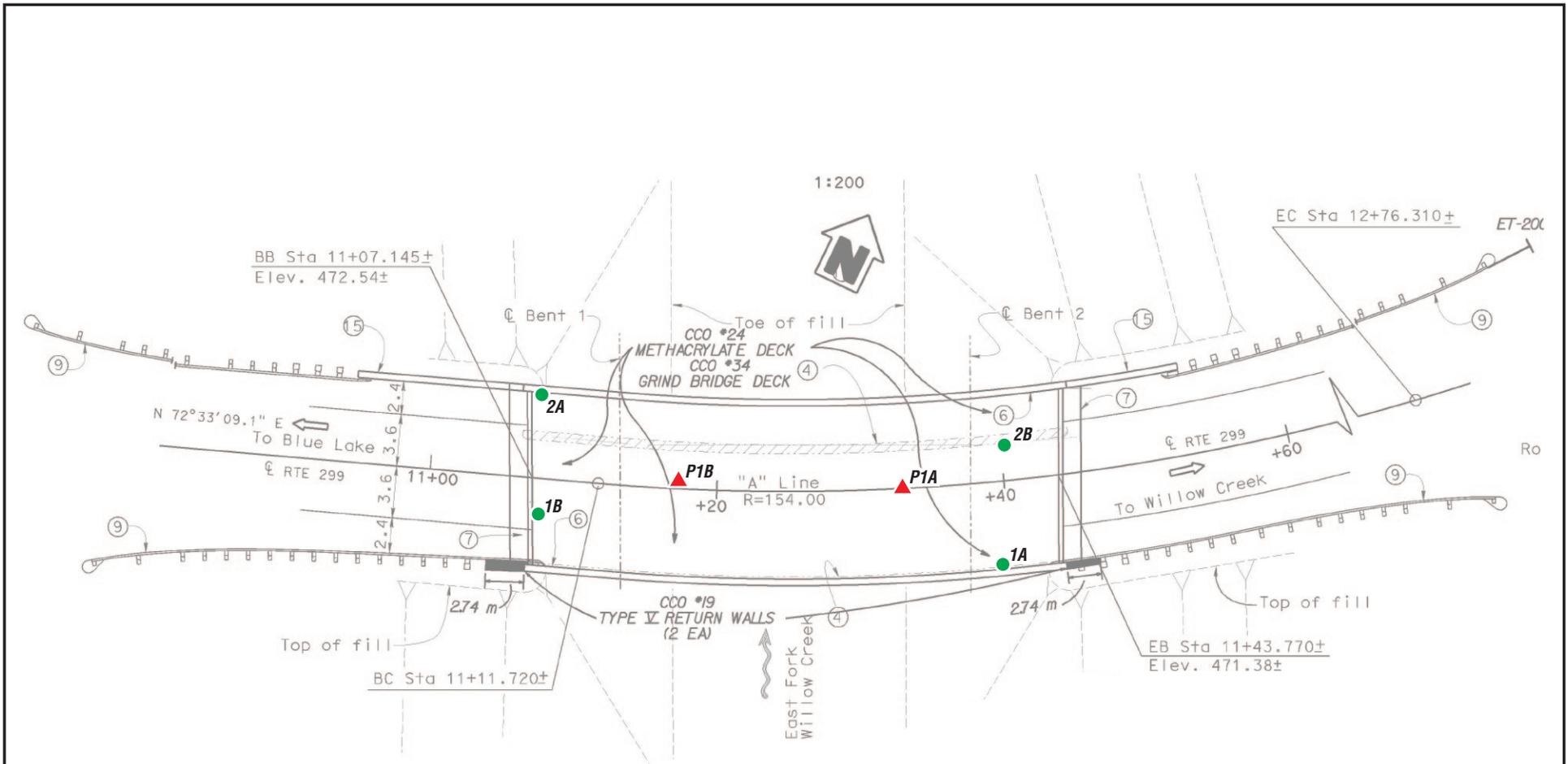
VICINITY MAP

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 1



LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location

NO SCALE



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

East Fork Willow Creek (Bridge No. 04-0115)

Humboldt County,
California

SITE PLAN

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 2



Photo 1 – East Fork Willow Creek Bridge (04-0115)



Photo 2 – Expansion joint



Photo 3 – Concrete girders and abutment



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR – SUITE 800 – RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 – FAX 916.852.9132

PHOTOGRAPHS 1, 2, & 3

East Fork Willow Creek Bridge (04-0115)
Humboldt County, California

S9300-01-212

June 2013



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:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0169 L/R-1A-EJM <i>091308935-0001</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-1B-EJM <i>091308935-0002</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-2A-Sheet Packing <i>091308935-0003</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0169 L/R-2B-Sheet Packing <i>091308935-0004</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0169 L/R-3A- Concrete <i>091308935-0005</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0169 L/R-3B- Concrete <i>091308935-0006</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-1A-EJM <i>091308935-0007</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s) _____
 Matthew Batongbacal (43)

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, WA C884

Initial report from 06/12/2013 17:30:34



EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

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<http://www.emsl.com>

sanleandrolab@emsl.com

EMSL Order:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0095 L/R-1B-EJM <i>091308935-0008</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0095 L/R-2A-Sheet Packing <i>091308935-0009</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0095 L/R-2B-Sheet Packing <i>091308935-0010</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0095 L/R-3A- Concrete <i>091308935-0011</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-3B- Concrete <i>091308935-0012</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-1A-Asphalt Roofing Core <i>091308935-0013</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1A-Felt <i>091308935-0013A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected

Analyst(s)
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Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
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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
SPH-1B-Asphalt Roofing Core <i>091308935-0014</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1B-Felt <i>091308935-0014A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
SPH-2A-Concrete <i>091308935-0015</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-2B-Concrete <i>091308935-0016</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-1A-Asphalt Roofing Core <i>091308935-0017</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-1B-Asphalt Roofing Core <i>091308935-0018</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-2A-Concrete <i>091308935-0019</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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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
NPH-2B-Concrete <i>091308935-0020</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-3A-Sealant <i>091308935-0021</i>	SEALANT	Gray Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
NPH-3B-Sealant <i>091308935-0022</i>	SEALANT				Stop Positive (Not Analyzed)
0193-1A-Sheet Packing <i>091308935-0023</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0193-1B-Sheet Packing <i>091308935-0024</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0193-2A-Concrete <i>091308935-0025</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0193-2B-Concrete <i>091308935-0026</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-1A-EJM <i>091308935-0027</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected

Analyst(s)

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6671 Brisa Street

Livermore, CA 94550

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Phone: (925) 371-5900
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 Analysis Date: 6/11/2013
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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
0115-1B-EJM <i>091308935-0028</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
0115-2A-Concrete <i>091308935-0029</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-2B-Concrete <i>091308935-0030</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1A-Concrete <i>091308935-0031</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1B-Concrete <i>091308935-0032</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1A-Concrete <i>091308935-0033</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1B-Concrete <i>091308935-0034</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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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
0023 L/R-1A-Concrete <i>091308935-0035</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-1B-Concrete <i>091308935-0036</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0119-1A-EJM <i>091308935-0037</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-1B-EJM <i>091308935-0038</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-2A-Sheet Packing <i>091308935-0039</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0119-2B-Sheet Packing <i>091308935-0040</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0119-3A-Concrete <i>091308935-0041</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____
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 or other approved signatory

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Livermore, CA 94550Project: **S9300-01-212 / HUM 101**

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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
0119-3B-Concrete <i>091308935-0042</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2A-Pipe Wrap <i>091308935-0043</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2A-Coating <i>091308935-0043A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2B-Pipe Wrap <i>091308935-0044</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2B-Coating <i>091308935-0044A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

091308935

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE. 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675
FAX: (510) 895-3680

Company: <u>Geocon</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>6671 BRISA ST.</u>		<i>Third Party Billing requires written authorization from third party</i>	
City: <u>LIVERMORE</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>94550</u>	Country: <u>USA</u>
Report To (Name): <u>P. WATTS</u>		Fax #: <u>925-371-5915</u>	
Telephone #: <u>925-371-5800</u>		Email Address: <u>WATTS@GEOCONINC.COM</u>	
Project Name/Number: <u>59300-01-212 Hum-101</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: <u>CA</u>	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
		TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	
		Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)	
		Other: <input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group (<u>> 1%</u>)			
Samplers Name: <u>D. WATTS</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
<u>01694/R-1A/B</u>	<u>EJM</u>	<u>NA</u>	<u>4 JUNE 2013</u>
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>	}	}
<u>↓ -3 ↓</u>	<u>CONCRETE</u>		
<u>00954/R-1A/B</u>	<u>EJM</u>	}	}
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>		
<u>↓ -3 ↓</u>	<u>CONCRETE</u>	}	}
<u>SPH-1A/B</u>	<u>ASPHALT ROOFING CORE</u>		
<u>↓ -2 ↓</u>	<u>CONCRETE</u>		
Client Sample # (s): _____		Total # of Samples: <u>44</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>6/5/13</u>	Time: <u>PM</u>
Received (Lab): <u>PEDEX</u>		Date: <u>6/5/13</u>	Time: <u>9:00 AM</u>
Comments/Special Instructions: _____			

(OVER)



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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

289805190

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675

FAX: (510) 895-3680

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

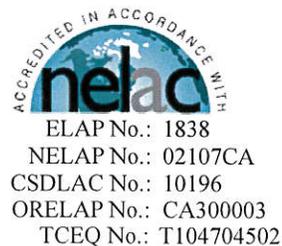
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
NPH-1A/B	ASPHALT ROOFING CORE	NA	4 June 2013
↓ -2 ↓	CONCRETE	↓	↓
↓ -3 ↓	SEALANT		
0193-1A/B	SHEET PACKING (SHIMS)		
↓ -2 ↓	CONCRETE		
0115-1A/B	EJM		
↓ -2 ↓	CONCRETE		
0245-1A/B	↓		
0024 L/R-1A/B	↓		
0023 L/R-1A/B	↓		
0119-1A/B	EJM		
↓ -2 ↓	SHEET PACKING (SHIMS)		
↓ -3 ↓	CONCRETE		
0023 L/R-2 ↓	ASPHALTIC PIPE WRAP		
*Comments/Special Instructions:			
2/6/7/13 9:00 AM			

(OVER)

ADVANCED TECHNOLOGY
LABORATORIES

June 21, 2013

Dave Watts
Geocon Consultants, Inc.
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Livermore, CA 94550
Tel: (925) 961-5273
Fax: (925) 371-5915



Re: ATL Work Order Number : 1301674
Client Reference : Hum 101, S9300-01-212

Enclosed are the results for sample(s) received on June 07, 2013 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.

Project Number : Hum 101, S9300-01-212

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 06/21/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0169 L/R - P1A/B	1301674-01	Paint	6/04/13 0:00	6/07/13 13:02
0095 L/R - P1A/B	1301674-02	Paint	6/04/13 0:00	6/07/13 13:02
SPH - P1A/B	1301674-03	Paint	6/04/13 0:00	6/07/13 13:02
NPH - P1A/B	1301674-04	Paint	6/04/13 0:00	6/07/13 13:02
0193 - P1A/B	1301674-05	Paint	6/04/13 0:00	6/07/13 13:02
0115 - P1A/B	1301674-06	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P1A/B	1301674-07	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P2A/B	1301674-08	Paint	6/04/13 0:00	6/07/13 13:02
0024 L/R - P1A/B	1301674-09	Paint	6/04/13 0:00	6/07/13 13:02
0023 L/R - P1A/B	1301674-10	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P1A/B	1301674-11	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P2A/B	1301674-12	Paint	6/04/13 0:00	6/07/13 13:02



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

Total Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: PT

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	
									Analyzed	Notes
1301674-01	0169 L/R - P1A/B	1900	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:29	
1301674-02	0095 L/R - P1A/B	1200	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:31	
1301674-03	SPH - P1A/B	ND	mg/kg	5.1	NA	1	B3F0204	06/11/2013	06/12/13 09:34	
1301674-04	NPH - P1A/B	17	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:36	
1301674-05	0193 - P1A/B	530	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:37	
1301674-06	0115 - P1A/B	3.0	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:39	
1301674-07	0245 - P1A/B	3.9	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:42	
1301674-08	0245 - P2A/B	750	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:44	
1301674-09	0024 L/R - P1A/B	120	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:49	
1301674-10	0023 L/R - P1A/B	1500	mg/kg	2.0	NA	1	B3F0205	06/11/2013	06/12/13 10:03	
1301674-11	0119 - P1A/B	40000	mg/kg	100	NA	50	B3F0205	06/11/2013	06/12/13 10:58	
1301674-12	0119 - P2A/B	140000	mg/kg	200	NA	100	B3F0205	06/11/2013	06/12/13 11:00	



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

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 Limit	Notes
Batch B3F0204 - EPA 3050B									
Blank (B3F0204-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0204-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	47.6027	1.0	50.0000		95.2	80 - 120			
Duplicate (B3F0204-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
		Source: 1301702-01							
Lead	2.92715	1.0		2.98075	NR	1.81		20	
Matrix Spike (B3F0204-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
		Source: 1301702-01							
Lead	115.244	1.0	125.000	2.98075	89.8	51 - 106			
Matrix Spike Dup (B3F0204-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
		Source: 1301702-01							
Lead	117.987	1.0	125.000	2.98075	92.0	51 - 106	2.35	20	
Batch B3F0205 - EPA 3050B									
Blank (B3F0205-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0205-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	46.9914	1.0	50.0000		94.0	80 - 120			
Duplicate (B3F0205-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
		Source: 1301674-10							
Lead	519.522	1.0		1537.86	NR	99.0		20	R
Matrix Spike (B3F0205-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
		Source: 1301679-01							
Lead	119.926	1.0	125.000	2.26712	94.1	51 - 106			
Matrix Spike Dup (B3F0205-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
		Source: 1301679-01							
Lead	122.519	1.0	125.000	2.26712	96.2	51 - 106	2.14	20	



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : Hum 101, S9300-01-212

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 06/21/2013

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
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY STUDY RECORD

- 1 of 1



**Advanced Technology
Laboratories**

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

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FEDEX <input checked="" type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: _____ Date: _____		

Client: GEOCON CONSULTANTS, INC.	Address: 6671 Brisa Street	TEL: (925) 371-5900
Attn: P. WATTS	City: Livemore State: CA Zip Code: 94550	FAX: (925) 371-5915

Project Name: Hum 101	Project #: 59300-01-212	Sampler: (Printed Name) D. WATTS	(Signature) <i>[Signature]</i>
Relinquished by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/5/13 Time: PM	Received by: (Signature and Printed Name) FED-EX	Date: 6/5/13 Time: PM
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/7/13 Time: 1302

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: P. WATTS 6/4/13 Print Name Date <i>[Signature]</i> Signature	Send Report To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: Paint chips (total Pb) Anticipate Soluble Requests
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

Sample/Records - Archival & Disposal				Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				PRESERVATION	QA/QC		
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.					SOIL	WATER	GROUND WATER	WASTEWATER			PAINT	RTNE <input type="checkbox"/>
Storage Fees (applies when storage is requested):												
• Sample : \$2.00 / sample / mo (after 45 days)												
• Records : \$1.00 / ATL workorder / mo (after 1 year)												
ITEM	LAB USE ONLY:		Sample Description						Container(s)		REMARKS	
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time					#		Type
	130674	-1	0169 L/R - P1A/B	6/4/13	VATC							
		-2	0095 ↓									
		-3	SPH -									
		-4	NPH -									
		-5	0193 -									
		-6	0115 -									
		-7	0245 -									
		-8	↓ - P2A/B									
		-9	0024 L/R - P1A/B									
		-10	0023 L/R -									
		-11	0119 -									
		-12	↓ - P2A/B									

• TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
--------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------

Carmen Aguila

From: David Watts [watts@geoconinc.com]
Sent: Saturday, June 08, 2013 12:35 PM
To: DAW WK EMAIL
Cc: Carmen Aguila; Diane Galvan
Subject: Fwd: Hum 101, S9300-01-212

Sent from my iPhone

Begin forwarded message:

From: David Watts <watts@geoconinc.com>
Date: June 8, 2013, 10:56:06 AM PDT
To: Fernando Diwa <Fernando@atlglobal.com>
Subject: Re: Hum 101, S9300-01-212

0245-p2a/b is the red paint

All samples are 2-point field composites (A/B). Thx.

Sent from my iPhone



Project No. S9300-01-212
June 28, 2013

Steve Werner, Task Order Manager
Caltrans District 1
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
14TH STREET OVERCROSSING (04-0245)
HUMBOLDT COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, E-FIS 01 1200 0007 (EA 01-0B2401)
TASK ORDER NO. 212, 01-HUM-101, PM 86.5

Dear Mr. Werner:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368 and Task Order No. 212, we have performed an asbestos and lead-containing paint (LCP) survey of the subject bridge in Humboldt County, California. The scope of services included surveying the bridge for suspect asbestos-containing materials (ACM) and lead-containing paint, collecting bulk ACM and traffic striping samples, and submitting the samples to laboratories for analyses.

PROJECT DESCRIPTION

The project consists of the 14th Street Overcrossing (OC), (04-0245) at Post Mile (PM) 86.5 on Highway 101 in Humboldt County, California. We performed asbestos and LCP survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

GENERAL OBJECTIVES

The scope of services outlined in TO-212 included the determination of the presence and quantity of asbestos and LCP at the project location prior to various improvements. Assuming that no asbestos is added during future operations, our survey would satisfy National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements. 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.

BACKGROUND

Asbestos

The Code of Federal Regulations (CFR), 40 CFR 61, Subpart M, NESHAP and Federal Occupational Safety and Health Administration (FED OSHA) classify 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).

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 paint component would require waste characterization and appropriate disposal. Intact paint 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 representative total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTL) of 1,000 milligrams per kilogram (mg/kg); or 2) the representative 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 representative 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 representative 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 paint coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with paint. Torching of these materials may produce hazardous fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with lead-containing paint. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR §1532.1.

Architectural Drawings and Previous Survey Activities

We reviewed structure architectural plans provided by Caltrans prior to field activities. We did not observe specifications or notes regarding the use of asbestos-containing materials or lead paint in the architectural plans provided. Previous asbestos survey reports were not available for our review.

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 survey at the project location on June 4, 2013.

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 two bulk asbestos samples representing one suspect component were collected.

Our procedures for inspection and sampling in accordance with TO-212 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.
- 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

Lead Paint

Four bulk paint samples were collected from suspect LCP (traffic striping) observed at the project location. Mr. Watts field-composited the samples into two, 2-part composites (each representing a different paint scheme). We did not observe deteriorated LCP during our survey. At the direction of Caltrans, we did not include white traffic striping in our sampling. Our sampling procedures in accordance with TO-212 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

INVESTIGATIVE RESULTS

Asbestos

No asbestos was detected in samples of suspect materials collected during our survey. Sample identification numbers, material description, approximate quantity, friability assessment, and a summary of the analytical laboratory test results for asbestos are summarized below. Reproductions of the laboratory report and chain-of-custody documentation are attached.

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116				
Sample No.	Description of Material	Approximate Quantity	Friable	Asbestos Content
0245-1A and B	Concrete	NA	NA	ND

NA = Not applicable (no asbestos detected)

ND = Not detected

Lead Paint

The composite sample representing intact yellow traffic striping exhibited a total lead concentration of 3.9 mg/kg.

The composite sample representing intact red traffic striping used on curbing exhibited a total lead concentration of 750 mg/kg.

Sample identification numbers, descriptions, peeling and flaking quantities, and a summary of the analytical laboratory test results for paint are summarized below. Reproductions of the laboratory reports and chain-of-custody documentation are attached.

Total Lead			
Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Total Lead (mg/kg)
0245-P1A/B	Yellow traffic striping	Intact	3.9
0245-P2A/B	Red traffic striping (curbing)	Intact	750

mg/kg = milligrams per kilogram (EPA Test Method 6010B)

RECOMMENDATIONS

Asbestos

Since no asbestos was detected in samples collected during our survey, the Cal/OSHA asbestos standard does not apply for planned activities. In addition, demolition debris would not be considered a California hazardous waste based on asbestos content. Written notification to the North Coast Unified Air Quality Management District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

Lead Paint

Yellow traffic striping sampled during our survey would not be classified as California or Federal hazardous if separately stripped, blasted, or otherwise separated from the substrate.

Red traffic striping sampled during our survey would require soluble lead (WET and/or TCLP) analysis if separately stripped, blasted, or otherwise separated from the substrate. Geocon recommends that asphalt grindings that contain traffic striping be sampled and characterized as a separate waste stream.

We recommend that all paints at the project location (traffic striping, graffiti, graffiti abatement, signage, 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.

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 structure identified above. 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 structure 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.

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

Sincerely,

GEOCON CONSULTANTS INC.



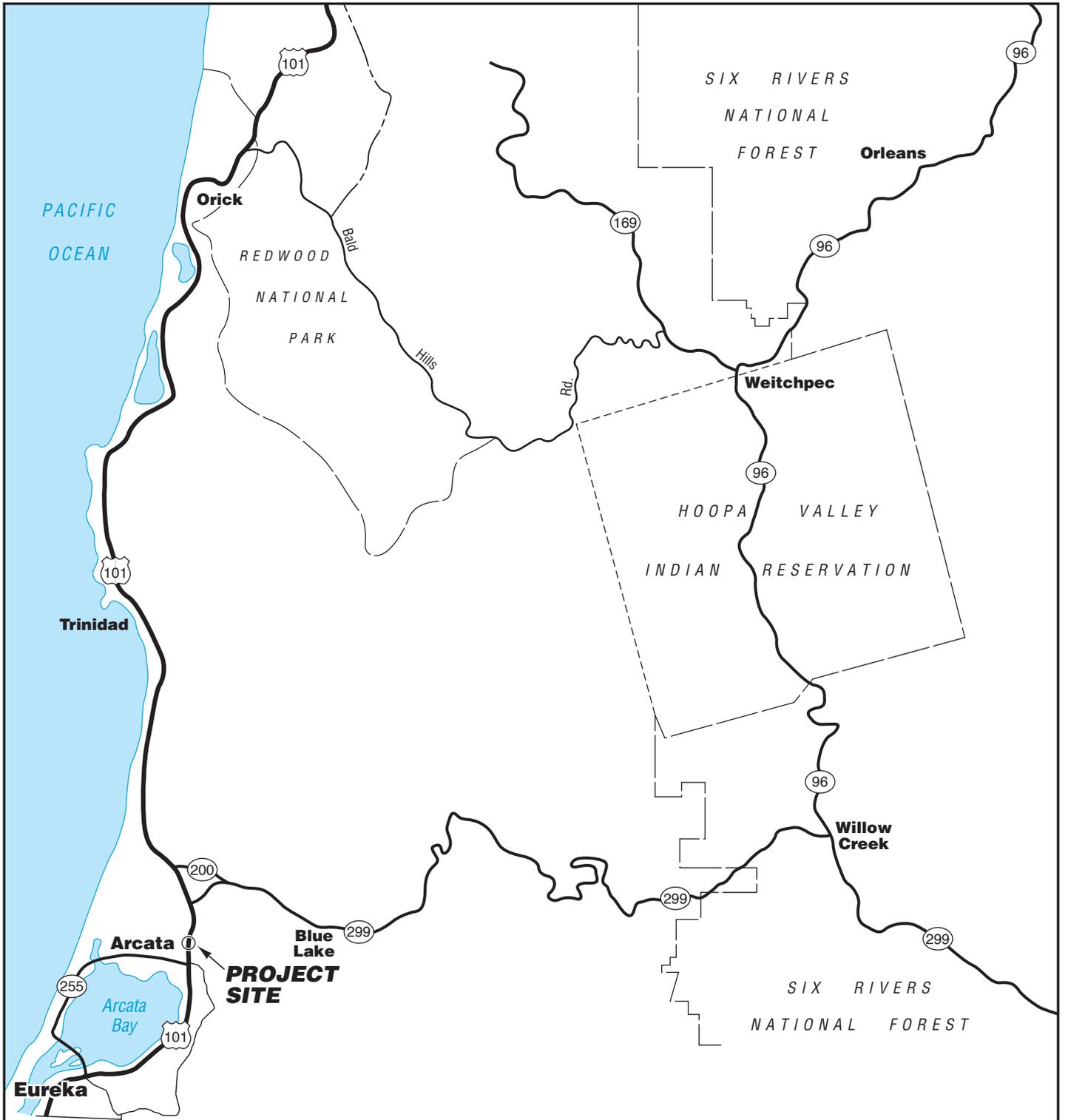
David A. Watts, CAC No. 98-2404
Senior Project Scientist



John E. Juhrend, PE, CEG
Principal/Senior Engineer

(3 + 3 CD) Addressee

Attachments: Figure 1, Vicinity Map
 Figure 2, Site Plan
 Site Photographs (1 through 3)
 Analytical Laboratory Reports and Chain-of-custody Documentation



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

14th Street OC (Bridge No. 04-0245)

Humboldt County,
California

VICINITY MAP

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 1



Photo 1 – 14th Street OC (04-0245)



Photo 2 – Bridge deck



Photo 3 – Bridge abutment and concrete box girder system



GEOCON
CONSULTANTS, INC.

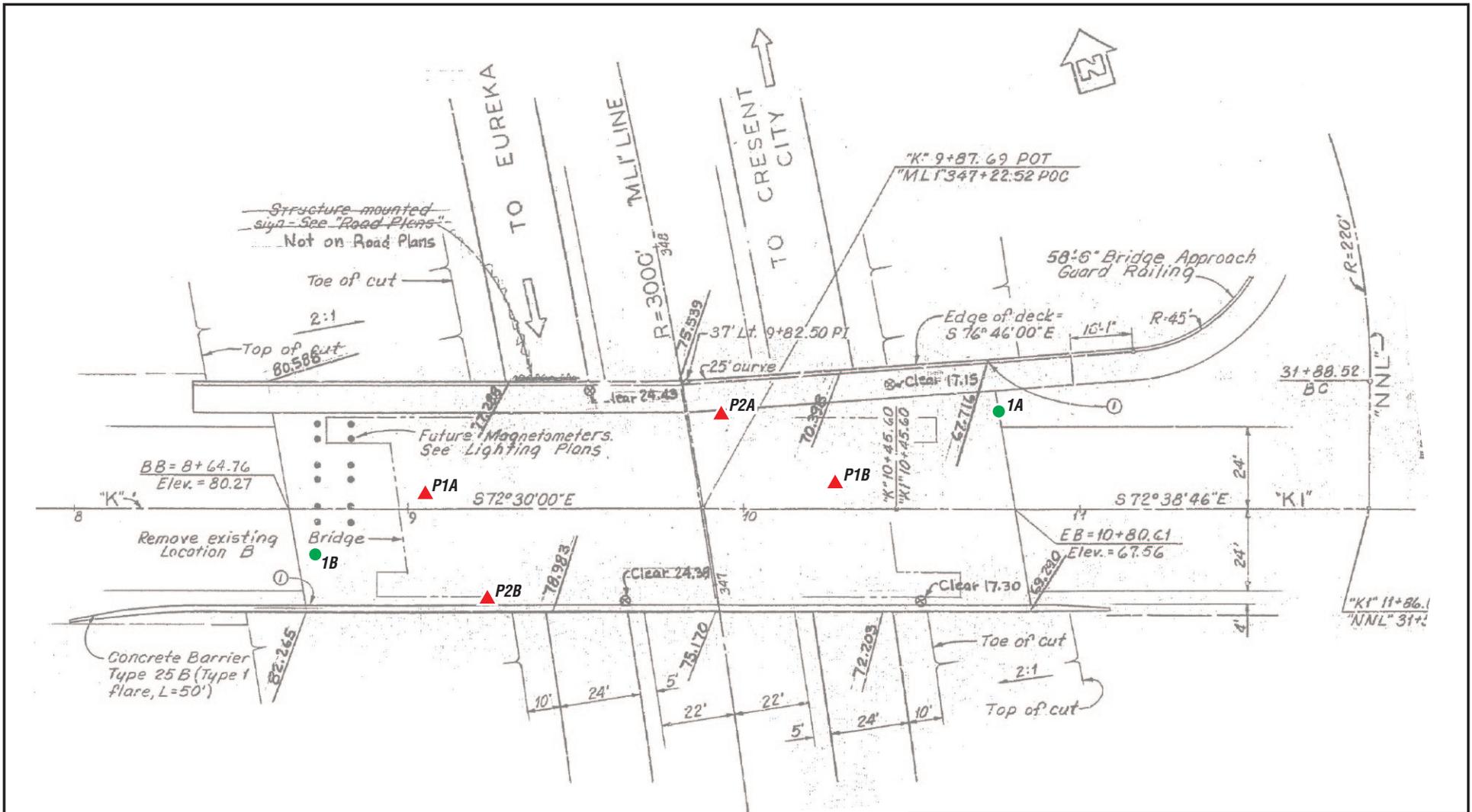
3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

PHOTOGRAPHS 1, 2, & 3

14th Street OC (04-0245)
Humboldt County, California

S9300-01-212

June 2013



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

14th Street OC (Bridge No. 04-0245)

Humboldt County,
California

SITE PLAN

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 2

LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location

NO SCALE



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:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0169 L/R-1A-EJM <i>091308935-0001</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-1B-EJM <i>091308935-0002</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-2A-Sheet Packing <i>091308935-0003</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0169 L/R-2B-Sheet Packing <i>091308935-0004</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0169 L/R-3A- Concrete <i>091308935-0005</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0169 L/R-3B- Concrete <i>091308935-0006</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-1A-EJM <i>091308935-0007</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

Matthew Batongbacal (43)

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, WA C884

Initial report from 06/12/2013 17:30:34



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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0095 L/R-1B-EJM <i>091308935-0008</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0095 L/R-2A-Sheet Packing <i>091308935-0009</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0095 L/R-2B-Sheet Packing <i>091308935-0010</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0095 L/R-3A- Concrete <i>091308935-0011</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-3B- Concrete <i>091308935-0012</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-1A-Asphalt Roofing Core <i>091308935-0013</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1A-Felt <i>091308935-0013A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected

Analyst(s)
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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
SPH-1B-Asphalt Roofing Core <i>091308935-0014</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1B-Felt <i>091308935-0014A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
SPH-2A-Concrete <i>091308935-0015</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-2B-Concrete <i>091308935-0016</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-1A-Asphalt Roofing Core <i>091308935-0017</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-1B-Asphalt Roofing Core <i>091308935-0018</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-2A-Concrete <i>091308935-0019</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NPH-2B-Concrete <i>091308935-0020</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-3A-Sealant <i>091308935-0021</i>	SEALANT	Gray Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
NPH-3B-Sealant <i>091308935-0022</i>	SEALANT				Stop Positive (Not Analyzed)
0193-1A-Sheet Packing <i>091308935-0023</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0193-1B-Sheet Packing <i>091308935-0024</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0193-2A-Concrete <i>091308935-0025</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0193-2B-Concrete <i>091308935-0026</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-1A-EJM <i>091308935-0027</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0115-1B-EJM <i>091308935-0028</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
0115-2A-Concrete <i>091308935-0029</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-2B-Concrete <i>091308935-0030</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1A-Concrete <i>091308935-0031</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1B-Concrete <i>091308935-0032</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1A-Concrete <i>091308935-0033</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1B-Concrete <i>091308935-0034</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0023 L/R-1A-Concrete <i>091308935-0035</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-1B-Concrete <i>091308935-0036</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0119-1A-EJM <i>091308935-0037</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-1B-EJM <i>091308935-0038</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-2A-Sheet Packing <i>091308935-0039</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0119-2B-Sheet Packing <i>091308935-0040</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0119-3A-Concrete <i>091308935-0041</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0119-3B-Concrete <i>091308935-0042</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2A-Pipe Wrap <i>091308935-0043</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2A-Coating <i>091308935-0043A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2B-Pipe Wrap <i>091308935-0044</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2B-Coating <i>091308935-0044A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

091308935

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE. 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675
FAX: (510) 895-3680

Company: <u>Geocon</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>6671 BRISA ST.</u>		<i>Third Party Billing requires written authorization from third party</i>	
City: <u>LIVERMORE</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>94550</u>	Country: <u>USA</u>
Report To (Name): <u>P. WATTS</u>		Fax #: <u>925-371-5915</u>	
Telephone #: <u>925-371-5800</u>		Email Address: <u>WATTS@GEOCONINC.COM</u>	
Project Name/Number: <u>59300-01-212 Hum-101</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: <u>CA</u>	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
		TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	
		Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)	
		Other: <input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group (<u>> 1%</u>)			
Samplers Name: <u>D. WATTS</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
<u>01694/R-1A/B</u>	<u>EJM</u>	<u>NA</u>	<u>4 JUNE 2013</u>
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>	}	}
<u>↓ -3 ↓</u>	<u>CONCRETE</u>		
<u>00954/R-1A/B</u>	<u>EJM</u>	}	}
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>		
<u>↓ -3 ↓</u>	<u>CONCRETE</u>	}	}
<u>SPH-1A/B</u>	<u>ASPHALT ROOFING CORE</u>		
<u>↓ -2 ↓</u>	<u>CONCRETE</u>		
Client Sample # (s): _____		Total # of Samples: <u>44</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>6/5/13</u>	Time: <u>PM</u>
Received (Lab): <u>PER EX</u>		Date: <u>6/5/13</u>	Time: <u>9:00 AM</u>
Comments/Special Instructions: _____			

(OVER)



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

289805190

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675

FAX: (510) 895-3680

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
NPH-1A/B	ASPHALT ROOFING CORE	NA	4 June 2013
↓ -2 ↓	CONCRETE	↓	↓
↓ -3 ↓	SEALANT		
0193-1A/B	SHEET PACKING (SHIMS)		
↓ -2 ↓	CONCRETE		
0115-1A/B	EJM		
↓ -2 ↓	CONCRETE		
0245-1A/B	↓		
0024 L/R-1A/B	↓		
0023 L/R-1A/B	↓		
0119-1A/B	EJM		
↓ -2 ↓	SHEET PACKING (SHIMS)		
↓ -3 ↓	CONCRETE		
0023 L/R-2 ↓	ASPHALTIC PIPE WRAP		
*Comments/Special Instructions:			
2/6/7/13 9:00 to			

(OVER)

ADVANCED TECHNOLOGY
LABORATORIES

June 21, 2013

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 961-5273
Fax: (925) 371-5915



Re: ATL Work Order Number : 1301674
Client Reference : Hum 101, S9300-01-212

Enclosed are the results for sample(s) received on June 07, 2013 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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www.atlglobal.com



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : Hum 101, S9300-01-212

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 06/21/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0169 L/R - P1A/B	1301674-01	Paint	6/04/13 0:00	6/07/13 13:02
0095 L/R - P1A/B	1301674-02	Paint	6/04/13 0:00	6/07/13 13:02
SPH - P1A/B	1301674-03	Paint	6/04/13 0:00	6/07/13 13:02
NPH - P1A/B	1301674-04	Paint	6/04/13 0:00	6/07/13 13:02
0193 - P1A/B	1301674-05	Paint	6/04/13 0:00	6/07/13 13:02
0115 - P1A/B	1301674-06	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P1A/B	1301674-07	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P2A/B	1301674-08	Paint	6/04/13 0:00	6/07/13 13:02
0024 L/R - P1A/B	1301674-09	Paint	6/04/13 0:00	6/07/13 13:02
0023 L/R - P1A/B	1301674-10	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P1A/B	1301674-11	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P2A/B	1301674-12	Paint	6/04/13 0:00	6/07/13 13:02



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

Total Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: PT

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	
									Analyzed	Notes
1301674-01	0169 L/R - P1A/B	1900	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:29	
1301674-02	0095 L/R - P1A/B	1200	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:31	
1301674-03	SPH - P1A/B	ND	mg/kg	5.1	NA	1	B3F0204	06/11/2013	06/12/13 09:34	
1301674-04	NPH - P1A/B	17	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:36	
1301674-05	0193 - P1A/B	530	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:37	
1301674-06	0115 - P1A/B	3.0	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:39	
1301674-07	0245 - P1A/B	3.9	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:42	
1301674-08	0245 - P2A/B	750	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:44	
1301674-09	0024 L/R - P1A/B	120	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:49	
1301674-10	0023 L/R - P1A/B	1500	mg/kg	2.0	NA	1	B3F0205	06/11/2013	06/12/13 10:03	
1301674-11	0119 - P1A/B	40000	mg/kg	100	NA	50	B3F0205	06/11/2013	06/12/13 10:58	
1301674-12	0119 - P2A/B	140000	mg/kg	200	NA	100	B3F0205	06/11/2013	06/12/13 11:00	



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

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 Limit	Notes
Batch B3F0204 - EPA 3050B									
Blank (B3F0204-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0204-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	47.6027	1.0	50.0000		95.2	80 - 120			
Duplicate (B3F0204-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	2.92715	1.0		2.98075	NR		1.81	20	
Matrix Spike (B3F0204-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	115.244	1.0	125.000	2.98075	89.8	51 - 106			
Matrix Spike Dup (B3F0204-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	117.987	1.0	125.000	2.98075	92.0	51 - 106	2.35	20	
Batch B3F0205 - EPA 3050B									
Blank (B3F0205-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0205-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	46.9914	1.0	50.0000		94.0	80 - 120			
Duplicate (B3F0205-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301674-10					
Lead	519.522	1.0		1537.86	NR		99.0	20	R
Matrix Spike (B3F0205-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	119.926	1.0	125.000	2.26712	94.1	51 - 106			
Matrix Spike Dup (B3F0205-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	122.519	1.0	125.000	2.26712	96.2	51 - 106	2.14	20	



Certificate of Analysis

Geocon Consultants, Inc.

6671 Brisa Street

Livermore, CA 94550

Project Number : Hum 101, S9300-01-212

Report To : Dave Watts

Reported : 06/21/2013

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
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Carmen Aguila

From: David Watts [watts@geoconinc.com]
Sent: Saturday, June 08, 2013 12:35 PM
To: DAW WK EMAIL
Cc: Carmen Aguila; Diane Galvan
Subject: Fwd: Hum 101, S9300-01-212

Sent from my iPhone

Begin forwarded message:

From: David Watts <watts@geoconinc.com>
Date: June 8, 2013, 10:56:06 AM PDT
To: Fernando Diwa <Fernando@atlglobal.com>
Subject: Re: Hum 101, S9300-01-212

0245-p2a/b is the red paint

All samples are 2-point field composites (A/B). Thx.

Sent from my iPhone



Project No. S9300-01-212
June 28, 2013

Steve Werner, Task Order Manager
Caltrans District 1
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
AIRPORT ROAD UNDERCROSSING (04-0169 L/R)
HUMBOLDT COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, E-FIS 01 1200 0007 (EA 01-0B2401)
TASK ORDER NO. 212, 01-HUM-101, PM 93.9

Dear Mr. Werner:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368 and Task Order No. 212, we have performed an asbestos and lead-containing paint (LCP) survey of the subject bridge in Humboldt County, California. The scope of services included surveying the bridge for suspect asbestos-containing materials (ACM) and lead-containing paint, collecting bulk ACM and yellow traffic striping samples, and submitting the samples to laboratories for analyses.

PROJECT DESCRIPTION

The project consists of the Airport Road Undercrossing (UC), (04-0169 L/R) at Post Mile (PM) 93.9 on Highway 101 in Humboldt County, California. We performed asbestos and LCP survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

GENERAL OBJECTIVES

The scope of services outlined in TO-212 included the determination of the presence and quantity of asbestos and LCP at the project location prior to various improvements. Assuming that no asbestos is added during future operations, our survey would satisfy National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements. 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.

BACKGROUND

Asbestos

The Code of Federal Regulations (CFR), 40 CFR 61, Subpart M, NESHAP and Federal Occupational Safety and Health Administration (FED OSHA) classify 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).

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 paint component would require waste characterization and appropriate disposal. Intact paint 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 representative total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the representative 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 representative 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 representative 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 paint coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with paint. Torching of these materials may produce hazardous fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with lead-containing paint. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR, §1532.1.

Architectural Drawings and Previous Survey Activities

We reviewed structure architectural plans provided by Caltrans prior to field activities. We did not observe specifications or notes regarding the use of asbestos-containing materials or lead paint in the architectural plans provided. Previous asbestos survey reports were not available for our review.

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 survey at the project location on June 4, 2013.

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 six bulk asbestos samples representing three suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-212 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.
- 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

Lead Paint

Two bulk paint samples were collected from suspect LCP (yellow traffic striping) observed at the project location. Mr. Watts field-composited the samples into one, 2-part composite. We did not observe deteriorated LCP during our survey. At the direction of Caltrans, we did not include white traffic striping in our sampling. Our sampling procedures in accordance with TO-212 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 the bulk LCP sample 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

INVESTIGATIVE RESULTS

Asbestos

Chrysotile asbestos at a concentration of 35% was detected in samples representing approximately 5 square feet of nonfriable sheet packing used as shims on the bridge barrier rail systems.

No asbestos was detected in samples of the remaining suspect materials collected during our survey. Sample identification numbers, material descriptions, approximate quantities, friability assessments, and a summary of the analytical laboratory test results for asbestos are summarized below. Reproductions of the laboratory report and chain-of-custody documentation are attached.

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116				
Sample No.	Description of Material	Approximate Quantity	Friable	Asbestos Content
0169 L/R-1A and B	Expansion joint fill material	NA	NA	ND
0169 L/R-2A and B	Barrier rail shims	5 square feet	No	35%
0169 L/R-3A and B	Concrete	NA	NA	ND

NA = Not applicable (no asbestos detected)

ND = Not detected

Lead Paint

A composite sample representing intact yellow traffic striping exhibited a total lead concentration of 1,900 mg/kg.

The sample identification number, descriptions, peeling and flaking quantities, and a summary of the analytical laboratory test results for paint are summarized below. Reproductions of the laboratory reports and chain-of-custody documentation are attached.

Total Lead			
Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Total Lead (mg/kg)
0169 L/R-P1A/B	Yellow traffic striping	Intact	1,900

mg/kg = milligrams per kilogram (EPA Test Method 6010B)

RECOMMENDATIONS

Asbestos

NESHAP regulations do not require that asbestos-containing sheet piling (a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to renovation/demolition or be treated as hazardous waste. The sheet piling may also be reused or stored for subsequent reuse. However, activities causing *disturbance* of the sheet piling matrix (i.e., cutting, abrading, sanding, grinding, etc.) would require compliance with the Cal/OSHA asbestos standard (Title 8, CCR §1529).

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

Written notification to the North Coast Unified Air Quality Management District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

Lead Paint

Yellow traffic striping sampled during our survey would be classified as California hazardous based on lead content if separately stripped, blasted, or otherwise separated from the substrate. Geocon recommends that asphalt grindings that contain traffic striping be sampled and characterized as a separate waste stream.

We recommend that all paints at the project location (traffic striping, graffiti, graffiti abatement, signage, 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.

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 structure identified above. 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 structure 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.

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

Sincerely,

GEOCON CONSULTANTS INC.



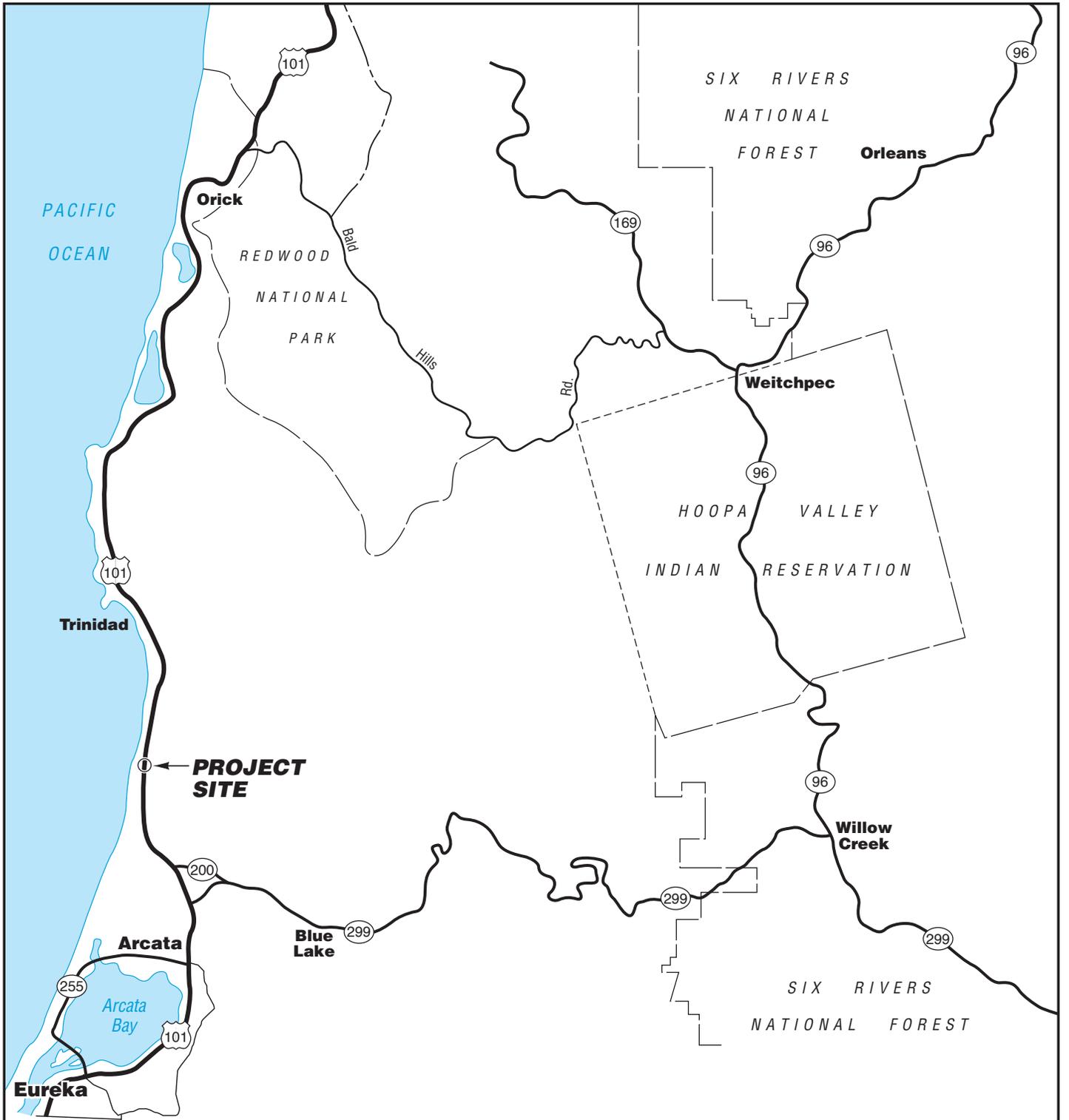
David A. Watts, CAC No. 98-2404
Senior Project Scientist



John E. Juhrend, PE, CEG
Principal/Senior Engineer

(3 + 3 CD) Addressee

Attachments: Figure 1, Vicinity Map
 Figure 2, Site Plan
 Site Photographs (1 through 3)
 Analytical Laboratory Reports and Chain-of-custody Documentation



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

Airport Road UC (Bridge No. 04-0169 L/R)

Humboldt County,
California

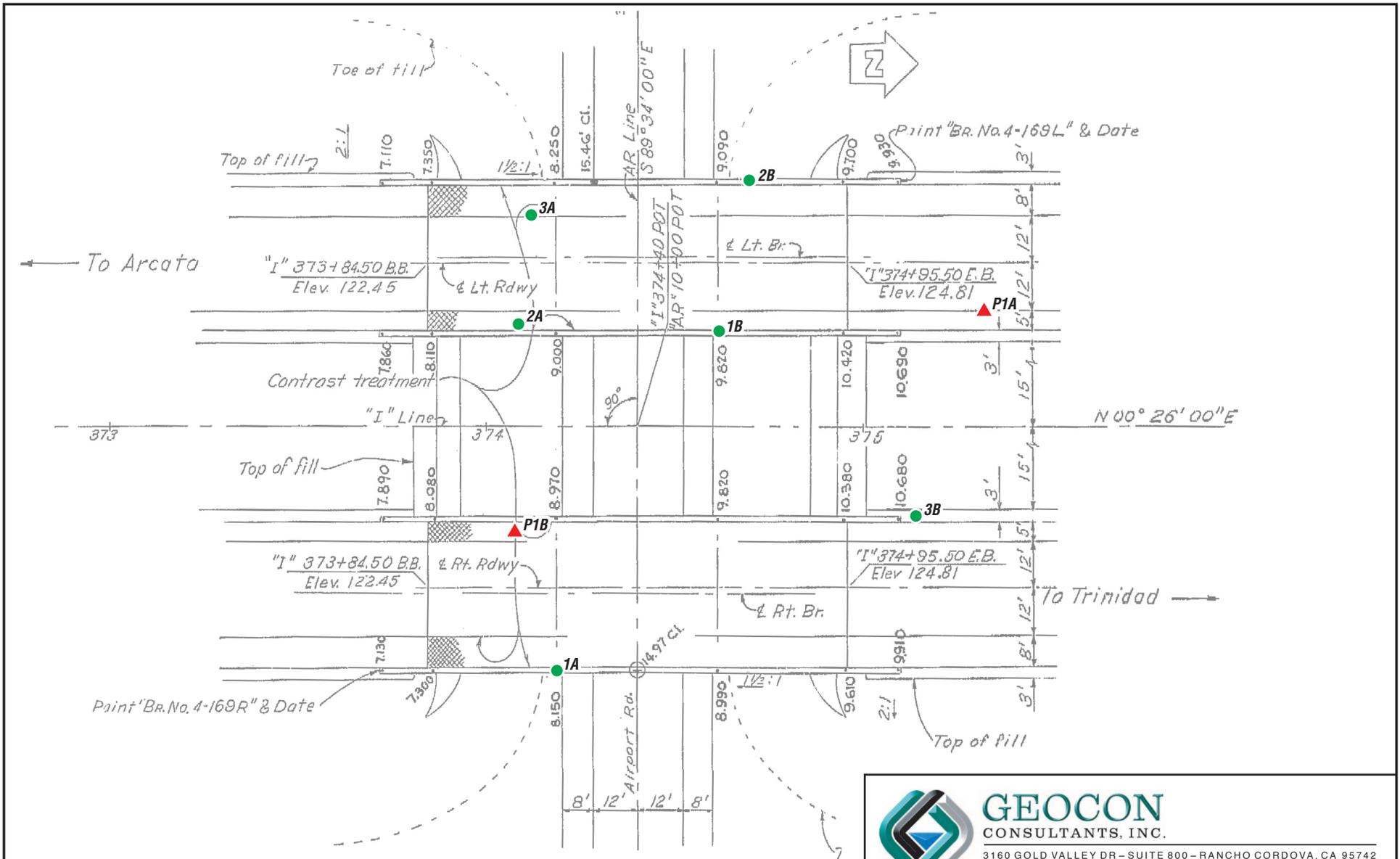
VICINITY MAP

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 1



LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location

NO SCALE

 GEOCON CONSULTANTS, INC. <small>3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742 PHONE 916.852.9118 - FAX 916.852.9132</small>	
Airport Road UC (Bridge No. 04-0169 L/R)	
Humboldt County, California	SITE PLAN
GEOCON Proj. No. S9300-01-212	
Task Order No. 212	June 2013
Figure 2	



Photo 1 – Airport Road UC (04-0169 L/R)



Photo 2 – Expansion joint



Photo 3 – Bridge barrier rails (with asbestos sheet packing)



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR – SUITE 800 – RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 – FAX 916.852.9132

PHOTOGRAPHS 1, 2, & 3		
Airport Road UC (04-0169 L/R)		
Humboldt County, California		
S9300-01-212		June 2013



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:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0169 L/R-1A-EJM <i>091308935-0001</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-1B-EJM <i>091308935-0002</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-2A-Sheet Packing <i>091308935-0003</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0169 L/R-2B-Sheet Packing <i>091308935-0004</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0169 L/R-3A- Concrete <i>091308935-0005</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0169 L/R-3B- Concrete <i>091308935-0006</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-1A-EJM <i>091308935-0007</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)
 Matthew Batongbacal (43)

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, WA C884

Initial report from 06/12/2013 17:30:34

**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:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0095 L/R-1B-EJM <i>091308935-0008</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0095 L/R-2A-Sheet Packing <i>091308935-0009</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0095 L/R-2B-Sheet Packing <i>091308935-0010</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0095 L/R-3A- Concrete <i>091308935-0011</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-3B- Concrete <i>091308935-0012</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-1A-Asphalt Roofing Core <i>091308935-0013</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1A-Felt <i>091308935-0013A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected

Analyst(s)

*Matthew Batongbacal (43)*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, WA C884

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ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
SPH-1B-Asphalt Roofing Core <i>091308935-0014</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1B-Felt <i>091308935-0014A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
SPH-2A-Concrete <i>091308935-0015</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-2B-Concrete <i>091308935-0016</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-1A-Asphalt Roofing Core <i>091308935-0017</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-1B-Asphalt Roofing Core <i>091308935-0018</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-2A-Concrete <i>091308935-0019</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
 Matthew Batongbacal (43)

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, WA C884

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Attn: **Dave Watts**
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Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
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 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
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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
NPH-2B-Concrete <i>091308935-0020</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-3A-Sealant <i>091308935-0021</i>	SEALANT	Gray Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
NPH-3B-Sealant <i>091308935-0022</i>	SEALANT				Stop Positive (Not Analyzed)
0193-1A-Sheet Packing <i>091308935-0023</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0193-1B-Sheet Packing <i>091308935-0024</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0193-2A-Concrete <i>091308935-0025</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0193-2B-Concrete <i>091308935-0026</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-1A-EJM <i>091308935-0027</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected

Analyst(s)

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 Baojia Ke, Laboratory Manager
 or other approved signatory

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
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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
0115-1B-EJM <i>091308935-0028</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
0115-2A-Concrete <i>091308935-0029</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-2B-Concrete <i>091308935-0030</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1A-Concrete <i>091308935-0031</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1B-Concrete <i>091308935-0032</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1A-Concrete <i>091308935-0033</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1B-Concrete <i>091308935-0034</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

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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
0023 L/R-1A-Concrete <i>091308935-0035</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-1B-Concrete <i>091308935-0036</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0119-1A-EJM <i>091308935-0037</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-1B-EJM <i>091308935-0038</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-2A-Sheet Packing <i>091308935-0039</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0119-2B-Sheet Packing <i>091308935-0040</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0119-3A-Concrete <i>091308935-0041</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____
 Matthew Batongbacal (43)

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 or other approved signatory

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6671 Brisa Street

Livermore, CA 94550Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
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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
0119-3B-Concrete <i>091308935-0042</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2A-Pipe Wrap <i>091308935-0043</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2A-Coating <i>091308935-0043A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2B-Pipe Wrap <i>091308935-0044</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2B-Coating <i>091308935-0044A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____
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EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

091308935

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE. 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675
FAX: (510) 895-3680

Company: <u>Geocon</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>6671 BRISA ST.</u>		<small>Third Party Billing requires written authorization from third party</small>	
City: <u>LIVERMORE</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>94550</u>	Country: <u>USA</u>
Report To (Name): <u>P. WATTS</u>		Fax #: <u>925-371-5915</u>	
Telephone #: <u>925-371-5800</u>		Email Address: <u>WATTS@GEOCONINC.COM</u>	
Project Name/Number: <u>59300-01-212 Hum-101</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: <u>CA</u>	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	
PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
		TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)	
		Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)	
		Other: <input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group (<u>> 1%</u>)			
Samplers Name: <u>D. WATTS</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
<u>01694/R-1A/B</u>	<u>EJM</u>	<u>NA</u>	<u>4 JUNE 2013</u>
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>	}	}
<u>↓ -3 ↓</u>	<u>CONCRETE</u>		
<u>00954/R-1A/B</u>	<u>EJM</u>		
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>	}	}
<u>↓ -3 ↓</u>	<u>CONCRETE</u>		
<u>SPH-1A/B</u>	<u>ASPHALT ROOFING CORE</u>		
<u>↓ -2 ↓</u>	<u>CONCRETE</u>		
Client Sample # (s): _____		Total # of Samples: <u>44</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>6/5/13</u>	Time: <u>PM</u>
Received (Lab): <u>PEDEX</u>		Date: <u>6/5/13</u>	Time: <u>9:00 AM</u>
Comments/Special Instructions: _____			

(OVER)



EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

289805190

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675

FAX: (510) 895-3680

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
NPH-1A/B	ASPHALT ROOFING CORE	NA	4 June 2013
↓ -2 ↓	CONCRETE	↓	↓
↓ -3 ↓	SEALANT		
0193-1A/B	SHEET PACKING (SHIMS)		
↓ -2 ↓	CONCRETE		
0115-1A/B	EJM		
↓ -2 ↓	CONCRETE		
0245-1A/B	↓		
0024 L/R-1A/B	↓		
0023 L/R-1A/B	↓		
0119-1A/B	EJM		
↓ -2 ↓	SHEET PACKING (SHIMS)		
↓ -3 ↓	CONCRETE		
0023 L/R-2 ↓	ASPHALTIC PIPE WRAP		
*Comments/Special Instructions:			
2/6/7/13 9:00 hr			

(OVER)

ADVANCED TECHNOLOGY
LABORATORIES

June 21, 2013

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 961-5273
Fax: (925) 371-5915



Re: ATL Work Order Number : 1301674
Client Reference : Hum 101, S9300-01-212

Enclosed are the results for sample(s) received on June 07, 2013 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 be "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.



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : Hum 101, S9300-01-212

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 06/21/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0169 L/R - P1A/B	1301674-01	Paint	6/04/13 0:00	6/07/13 13:02
0095 L/R - P1A/B	1301674-02	Paint	6/04/13 0:00	6/07/13 13:02
SPH - P1A/B	1301674-03	Paint	6/04/13 0:00	6/07/13 13:02
NPH - P1A/B	1301674-04	Paint	6/04/13 0:00	6/07/13 13:02
0193 - P1A/B	1301674-05	Paint	6/04/13 0:00	6/07/13 13:02
0115 - P1A/B	1301674-06	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P1A/B	1301674-07	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P2A/B	1301674-08	Paint	6/04/13 0:00	6/07/13 13:02
0024 L/R - P1A/B	1301674-09	Paint	6/04/13 0:00	6/07/13 13:02
0023 L/R - P1A/B	1301674-10	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P1A/B	1301674-11	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P2A/B	1301674-12	Paint	6/04/13 0:00	6/07/13 13:02



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

Total Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: PT

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
									Analyzed	
1301674-01	0169 L/R - P1A/B	1900	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:29	
1301674-02	0095 L/R - P1A/B	1200	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:31	
1301674-03	SPH - P1A/B	ND	mg/kg	5.1	NA	1	B3F0204	06/11/2013	06/12/13 09:34	
1301674-04	NPH - P1A/B	17	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:36	
1301674-05	0193 - P1A/B	530	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:37	
1301674-06	0115 - P1A/B	3.0	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:39	
1301674-07	0245 - P1A/B	3.9	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:42	
1301674-08	0245 - P2A/B	750	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:44	
1301674-09	0024 L/R - P1A/B	120	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:49	
1301674-10	0023 L/R - P1A/B	1500	mg/kg	2.0	NA	1	B3F0205	06/11/2013	06/12/13 10:03	
1301674-11	0119 - P1A/B	40000	mg/kg	100	NA	50	B3F0205	06/11/2013	06/12/13 10:58	
1301674-12	0119 - P2A/B	140000	mg/kg	200	NA	100	B3F0205	06/11/2013	06/12/13 11:00	



Certificate of Analysis

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Project Number : Hum 101, S9300-01-212
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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 Limit	Notes
Batch B3F0204 - EPA 3050B									
Blank (B3F0204-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0204-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	47.6027	1.0	50.0000		95.2	80 - 120			
Duplicate (B3F0204-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	2.92715	1.0		2.98075	NR		1.81	20	
Matrix Spike (B3F0204-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	115.244	1.0	125.000	2.98075	89.8	51 - 106			
Matrix Spike Dup (B3F0204-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	117.987	1.0	125.000	2.98075	92.0	51 - 106	2.35	20	
Batch B3F0205 - EPA 3050B									
Blank (B3F0205-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0205-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	46.9914	1.0	50.0000		94.0	80 - 120			
Duplicate (B3F0205-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301674-10					
Lead	519.522	1.0		1537.86	NR		99.0	20	R
Matrix Spike (B3F0205-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	119.926	1.0	125.000	2.26712	94.1	51 - 106			
Matrix Spike Dup (B3F0205-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	122.519	1.0	125.000	2.26712	96.2	51 - 106	2.14	20	



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : Hum 101, S9300-01-212

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Livermore , CA 94550

Reported : 06/21/2013

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
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY STUDY RECORD

- 1 of 1



**Advanced Technology
Laboratories**

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

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FEDEX <input checked="" type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: _____ Date: _____		

Client: GEOCON CONSULTANTS, INC.	Address: 6671 Brisa Street	TEL: (925) 371-5900
Attn: D. WATTS	City: Livemore State: CA Zip Code: 94550	FAX: (925) 371-5915

Project Name: Hum 101	Project #: 59300-01-212	Sampler: (Printed Name) D. WATTS	(Signature) <i>[Signature]</i>
Relinquished by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/5/13 Time: PM	Received by: (Signature and Printed Name) FED-EX	Date: 6/5/13 Time: PM
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/7/13 Time: 1302

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: D. WATTS 6/4/13 Print Name Date <i>[Signature]</i> Signature	Send Report To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: Paint Chips (Total Pb) Anticipate Soluble Requests
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

Sample/Records - Archival & Disposal				Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				Container(s)	TAT	#	Type	PRESERVATION	QA/QC			
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.					8091A (Pesticides)	8092 (PCB)	8200A (Volatiles)	8270C (BVA)							8010B (Total Metal)	8015B (GRO) / BTEX	8015B (DPO)
Storage Fees (applies when storage is requested):																	
<ul style="list-style-type: none"> • Sample : \$2.00 / sample / mo (after 45 days) • Records : \$1.00 / ATL workorder / mo (after 1 year) 																	
LAB USE ONLY:	Sample Description	Date	Time														
Batch #:	Sample I.D. / Location																
Lab No.																	
130674 - 1	0169 L/R - P1A/B	6/4/13	VATC														
- 2	0095 ↓																
- 3	SPH -																
- 4	NPH -																
- 5	0193 -																
- 6	0115 -																
- 7	0245 -																
- 8	↓ - P2A/B																
- 9	0024 L/R - P1A/B																
- 10	0023 L/R -																
- 11	0119 -																
- 12	↓ - P2A/B																

• TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
--------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------

Carmen Aguila

From: David Watts [watts@geoconinc.com]
Sent: Saturday, June 08, 2013 12:35 PM
To: DAW WK EMAIL
Cc: Carmen Aguila; Diane Galvan
Subject: Fwd: Hum 101, S9300-01-212

Sent from my iPhone

Begin forwarded message:

From: David Watts <watts@geoconinc.com>
Date: June 8, 2013, 10:56:06 AM PDT
To: Fernando Diwa <Fernando@atlglobal.com>
Subject: Re: Hum 101, S9300-01-212

0245-p2a/b is the red paint

All samples are 2-point field composites (A/B). Thx.

Sent from my iPhone



Project No. S9300-01-212
June 28, 2013

Steve Werner, Task Order Manager
Caltrans District 1
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
NORTH CENTRAL AVENUE UNDERCROSSING (04-0095 L/R)
HUMBOLDT COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, E-FIS 01 1200 0007 (EA 01-0B2401)
TASK ORDER NO. 212, 01-HUM-101, PM 95.6

Dear Mr. Werner:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368 and Task Order No. 212, we have performed an asbestos and lead-containing paint (LCP) survey of the subject bridge in Humboldt County, California. The scope of services included surveying the bridge for suspect asbestos-containing materials (ACM) and lead-containing paint, collecting bulk ACM and yellow traffic striping samples, and submitting the samples to laboratories for analyses.

PROJECT DESCRIPTION

The project consists of the North Central Avenue Undercrossing (UC), (04-0095 L/R) at Post Mile (PM) 95.6 on Highway 101 in Humboldt County, California. We performed asbestos and LCP survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

GENERAL OBJECTIVES

The scope of services outlined in TO-212 included the determination of the presence and quantity of asbestos and LCP at the project location prior to various improvements. Assuming that no asbestos is added during future operations, our survey would satisfy National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements. 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.

BACKGROUND

Asbestos

The Code of Federal Regulations (CFR), 40 CFR 61, Subpart M, NESHAP and Federal Occupational Safety and Health Administration (FED OSHA) classify 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).

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 paint component would require waste characterization and appropriate disposal. Intact paint 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 representative total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTL) of 1,000 milligrams per kilogram (mg/kg); or 2) the representative 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 representative 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 representative 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 paint coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with paint. Torching of these materials may produce hazardous fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with lead-containing paint. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in Title 8, CCR §1532.1.

Architectural Drawings and Previous Survey Activities

We reviewed structure architectural plans provided by Caltrans prior to field activities. We did not observe specifications or notes regarding the use of asbestos-containing materials or lead paint in the architectural plans provided. Previous asbestos survey reports were not available for our review.

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 survey at the project location on June 4, 2013.

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 six bulk asbestos samples representing three suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-212 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.
- 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

Lead Paint

Two bulk paint samples were collected from suspect LCP (yellow traffic striping) observed at the project location. Mr. Watts field-composited the samples into one, 2-part composite. We did not observe deteriorated LCP during our survey. At the direction of Caltrans, we did not include white traffic striping in our sampling. Our sampling procedures in accordance with TO-212 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 the bulk LCP sample 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 turnaround period of five days.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

INVESTIGATIVE RESULTS

Asbestos

Chrysotile asbestos at a concentration of 35% was detected in samples representing approximately 2 square feet of nonfriable sheet packing used as shims on the bridge barrier rail systems.

No asbestos was detected in samples of the remaining suspect materials collected during our survey. Sample identification numbers, material descriptions, approximate quantities, friability assessments, and a summary of the analytical laboratory test results for asbestos are summarized below. Reproductions of the laboratory report and chain-of-custody documentation are attached.

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116				
Sample No.	Description of Material	Approximate Quantity	Friable	Asbestos Content
0095 L/R-1A and B	Expansion joint fill material	NA	NA	ND
0095 L/R-2A and B	Barrier rail shims	2 square feet	No	35%
0095 L/R-3A and B	Concrete	NA	NA	ND

NA = Not applicable (no asbestos detected)

ND = Not detected

Lead Paint

A composite sample representing intact yellow traffic striping exhibited a total lead concentration of 1,200 mg/kg.

The sample identification number, descriptions, peeling and flaking quantities, and a summary of the analytical laboratory test results for paint are summarized below. Reproductions of the laboratory reports and chain-of-custody documentation are attached.

Total Lead			
Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Total Lead (mg/kg)
0095 L/R-P1A/B	Yellow traffic striping	Intact	1,200

mg/kg = milligrams per kilogram (EPA Test Method 6010B)

RECOMMENDATIONS

Asbestos

NESHAP regulations do not require that asbestos-containing sheet packing (a Category I nonfriable/nonhazardous material) identified during our survey be removed prior to renovation/demolition or be treated as hazardous waste. The sheet packing may also be reused or stored for subsequent reuse. However, activities causing *disturbance* of the sheet packing matrix (i.e., cutting, abrading, sanding, grinding, etc.) would require compliance with the Cal/OSHA asbestos standard (Title 8, CCR §1529).

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

Written notification to the North Coast Unified Air Quality Management District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

Lead Paint

Yellow traffic striping sampled during our survey would be classified as California hazardous based on lead content if separately stripped, blasted, or otherwise separated from the substrate. Geocon recommends that asphalt grindings that contain traffic striping be sampled and characterized as a separate waste stream.

We recommend that all paints at the project location (traffic striping, graffiti, graffiti abatement, signage, 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.

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 structure identified above. 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 structure 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.

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

Sincerely,

GEOCON CONSULTANTS INC.



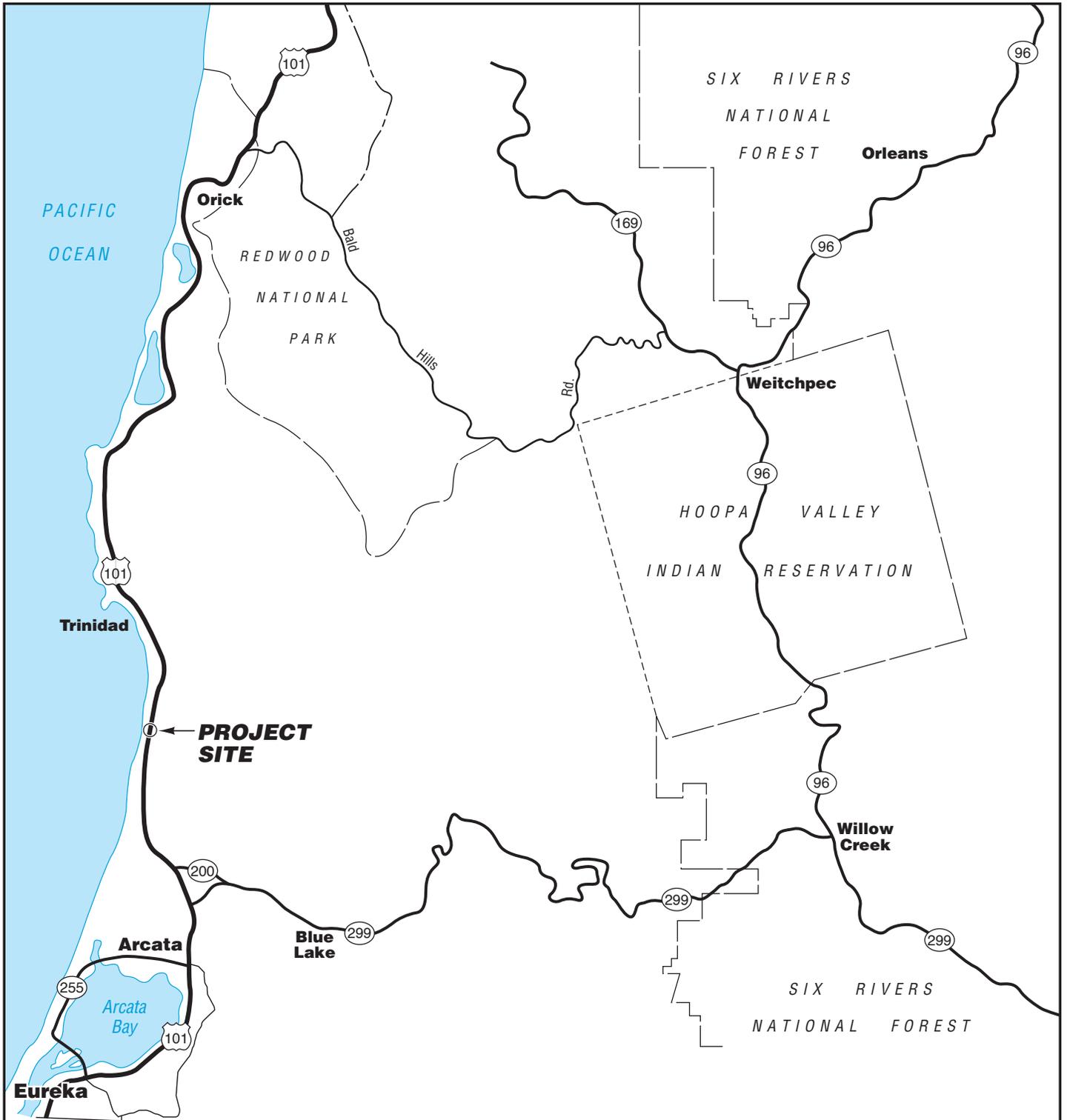
David A. Watts, CAC No. 98-2404
Senior Project Scientist



John E. Juhrend, PE, CEG
Principal/Senior Engineer

(3 + 3 CD) Addressee

Attachments: Figure 1, Vicinity Map
 Figure 2, Site Plan
 Site Photographs (1 through 3)
 Analytical Laboratory Reports and Chain-of-custody Documentation



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

North Central Avenue UC (Bridge No. 04-0095 L/R)

Humboldt County,
California

VICINITY MAP

GEOCON Proj. No. S9300-01-212

Task Order No. 212

June 2013

Figure 1



Photo 1 – North Central Avenue UC (04-0095 L/R)



Photo 2 – Expansion joint



Photo 3 – Bridge barrier rails (with asbestos sheet packing)



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

PHOTOGRAPHS 1, 2, & 3		
North Central Avenue UC (04-0095 L/R)		
Humboldt County, California		
S9300-01-212		June 2013



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:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550

Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/07/13 9:00 AM
 Analysis Date: 6/11/2013
 Collected: 6/4/2013

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
0169 L/R-1A-EJM <i>091308935-0001</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-1B-EJM <i>091308935-0002</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0169 L/R-2A-Sheet Packing <i>091308935-0003</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0169 L/R-2B-Sheet Packing <i>091308935-0004</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0169 L/R-3A- Concrete <i>091308935-0005</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0169 L/R-3B- Concrete <i>091308935-0006</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-1A-EJM <i>091308935-0007</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

Analyst(s)

Matthew Batongbacal (43)

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, WA C884

Initial report from 06/12/2013 17:30:34

**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:	091308935
CustomerID:	GECN21
CustomerPO:	S9300-01-212
ProjectID:	

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

Livermore, CA 94550Project: **S9300-01-212 / HUM 101**

Phone: (925) 371-5900
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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
0095 L/R-1B-EJM <i>091308935-0008</i>	EJM	Brown/Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
0095 L/R-2A-Sheet Packing <i>091308935-0009</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0095 L/R-2B-Sheet Packing <i>091308935-0010</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0095 L/R-3A- Concrete <i>091308935-0011</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0095 L/R-3B- Concrete <i>091308935-0012</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-1A-Asphalt Roofing Core <i>091308935-0013</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1A-Felt <i>091308935-0013A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected

Analyst(s)

*Matthew Batongbacal (43)*Baojia Ke, Laboratory Manager
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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
SPH-1B-Asphalt Roofing Core <i>091308935-0014</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
SPH-1B-Felt <i>091308935-0014A</i>	ASPHALT ROOFING CORE	Black/Green Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
SPH-2A-Concrete <i>091308935-0015</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
SPH-2B-Concrete <i>091308935-0016</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-1A-Asphalt Roofing Core <i>091308935-0017</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-1B-Asphalt Roofing Core <i>091308935-0018</i>	ASPHALT ROOFING CORE	Tan/Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (other)	None Detected
NPH-2A-Concrete <i>091308935-0019</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
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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
NPH-2B-Concrete <i>091308935-0020</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
NPH-3A-Sealant <i>091308935-0021</i>	SEALANT	Gray Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
NPH-3B-Sealant <i>091308935-0022</i>	SEALANT				Stop Positive (Not Analyzed)
0193-1A-Sheet Packing <i>091308935-0023</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0193-1B-Sheet Packing <i>091308935-0024</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0193-2A-Concrete <i>091308935-0025</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0193-2B-Concrete <i>091308935-0026</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-1A-EJM <i>091308935-0027</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected

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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
0115-1B-EJM <i>091308935-0028</i>	EJM	Brown Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (other)	None Detected
0115-2A-Concrete <i>091308935-0029</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0115-2B-Concrete <i>091308935-0030</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1A-Concrete <i>091308935-0031</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0245-1B-Concrete <i>091308935-0032</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1A-Concrete <i>091308935-0033</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0024 L/R-1B-Concrete <i>091308935-0034</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0023 L/R-1A-Concrete <i>091308935-0035</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-1B-Concrete <i>091308935-0036</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0119-1A-EJM <i>091308935-0037</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-1B-EJM <i>091308935-0038</i>	EJM	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected
0119-2A-Sheet Packing <i>091308935-0039</i>	SHEET PACKING (SHIMS)	Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Chrysotile
0119-2B-Sheet Packing <i>091308935-0040</i>	SHEET PACKING (SHIMS)				Stop Positive (Not Analyzed)
0119-3A-Concrete <i>091308935-0041</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
0119-3B-Concrete <i>091308935-0042</i>	CONCRETE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2A-Pipe Wrap <i>091308935-0043</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2A-Coating <i>091308935-0043A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0023 L/R-2B-Pipe Wrap <i>091308935-0044</i>	ASPHALTIC PIPE WRAP	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
0023 L/R-2B-Coating <i>091308935-0044A</i>	ASPHALTIC PIPE WRAP	Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

091308935

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE. 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675
FAX: (510) 895-3680

Company: <u>Geocon</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>6671 BRISA ST.</u>		<small>Third Party Billing requires written authorization from third party</small>	
City: <u>LIVERMORE</u>	State/Province: <u>CA</u>	Zip/Postal Code: <u>94550</u>	Country: <u>USA</u>
Report To (Name): <u>P. WATTS</u>		Fax #: <u>925-371-5915</u>	
Telephone #: <u>925-371-5800</u>		Email Address: <u>WATTS@GEOCONINC.COM</u>	
Project Name/Number: <u>59300-01-212 Hum-101</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: <u>CA</u>	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input checked="" type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
<small>*For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.</small>			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
		TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group (<u>> 1%</u>)			
Samplers Name: <u>D. WATTS</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
<u>01694/R-1A/B</u>	<u>EJM</u>	<u>NA</u>	<u>4 JUNE 2013</u>
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>	}	}
<u>↓ -3 ↓</u>	<u>CONCRETE</u>		
<u>00954/R-1A/B</u>	<u>EJM</u>	}	}
<u>↓ -2 ↓</u>	<u>SHEET PACKING (SHIMS)</u>		
<u>↓ -3 ↓</u>	<u>CONCRETE</u>	}	}
<u>SPH-1A/B</u>	<u>ASPHALT ROOFING CORE</u>		
<u>↓ -2 ↓</u>	<u>CONCRETE</u>		
Client Sample # (s): _____		Total # of Samples: <u>44</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>6/5/13</u>	Time: <u>PM</u>
Received (Lab): <u>PEDEX</u>		Date: <u>6/5/13</u>	Time: <u>9:00 AM</u>
Comments/Special Instructions: _____			

(OVER)



EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

289805190

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE 230
SAN LEANDRO, CA 94577
PHONE: (510) 895-3675
FAX: (510) 895-3680

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
NPH-1A/B	ASPHALT ROOFING CORE	NA	4 June 2013
↓ -2 ↓	CONCRETE	↓	↓
↓ -3 ↓	SEALANT		
0193-1A/B	SHEET PACKING (SHIMS)		
↓ -2 ↓	CONCRETE		
0115-1A/B	EJM		
↓ -2 ↓	CONCRETE		
0245-1A/B	↓		
0024 L/R-1A/B	↓		
0023 L/R-1A/B	↓		
0119-1A/B	EJM		
↓ -2 ↓	SHEET PACKING (SHIMS)	↓	↓
↓ -3 ↓	CONCRETE		
0023 L/R-2 ↓	ASPHALTIC PIPE WRAP		
*Comments/Special Instructions:			
2/6/7/13 9:00 AM			

(OVER)

ADVANCED TECHNOLOGY
LABORATORIES

June 21, 2013

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 961-5273
Fax: (925) 371-5915



Re: ATL Work Order Number : 1301674
Client Reference : Hum 101, S9300-01-212

Enclosed are the results for sample(s) received on June 07, 2013 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.



Certificate of Analysis

Geocon Consultants, Inc.

Project Number : Hum 101, S9300-01-212

6671 Brisa Street

Report To : Dave Watts

Livermore , CA 94550

Reported : 06/21/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
0169 L/R - P1A/B	1301674-01	Paint	6/04/13 0:00	6/07/13 13:02
0095 L/R - P1A/B	1301674-02	Paint	6/04/13 0:00	6/07/13 13:02
SPH - P1A/B	1301674-03	Paint	6/04/13 0:00	6/07/13 13:02
NPH - P1A/B	1301674-04	Paint	6/04/13 0:00	6/07/13 13:02
0193 - P1A/B	1301674-05	Paint	6/04/13 0:00	6/07/13 13:02
0115 - P1A/B	1301674-06	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P1A/B	1301674-07	Paint	6/04/13 0:00	6/07/13 13:02
0245 - P2A/B	1301674-08	Paint	6/04/13 0:00	6/07/13 13:02
0024 L/R - P1A/B	1301674-09	Paint	6/04/13 0:00	6/07/13 13:02
0023 L/R - P1A/B	1301674-10	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P1A/B	1301674-11	Paint	6/04/13 0:00	6/07/13 13:02
0119 - P2A/B	1301674-12	Paint	6/04/13 0:00	6/07/13 13:02



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

Total Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: PT

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	
									Analyzed	Notes
1301674-01	0169 L/R - P1A/B	1900	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:29	
1301674-02	0095 L/R - P1A/B	1200	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:31	
1301674-03	SPH - P1A/B	ND	mg/kg	5.1	NA	1	B3F0204	06/11/2013	06/12/13 09:34	
1301674-04	NPH - P1A/B	17	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:36	
1301674-05	0193 - P1A/B	530	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:37	
1301674-06	0115 - P1A/B	3.0	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:39	
1301674-07	0245 - P1A/B	3.9	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:42	
1301674-08	0245 - P2A/B	750	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:44	
1301674-09	0024 L/R - P1A/B	120	mg/kg	2.0	NA	1	B3F0204	06/11/2013	06/12/13 09:49	
1301674-10	0023 L/R - P1A/B	1500	mg/kg	2.0	NA	1	B3F0205	06/11/2013	06/12/13 10:03	
1301674-11	0119 - P1A/B	40000	mg/kg	100	NA	50	B3F0205	06/11/2013	06/12/13 10:58	
1301674-12	0119 - P2A/B	140000	mg/kg	200	NA	100	B3F0205	06/11/2013	06/12/13 11:00	



Certificate of Analysis

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

Project Number : Hum 101, S9300-01-212
Report To : Dave Watts
Reported : 06/21/2013

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 Limit	Notes
Batch B3F0204 - EPA 3050B									
Blank (B3F0204-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0204-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	47.6027	1.0	50.0000		95.2	80 - 120			
Duplicate (B3F0204-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	2.92715	1.0		2.98075	NR		1.81	20	
Matrix Spike (B3F0204-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	115.244	1.0	125.000	2.98075	89.8	51 - 106			
Matrix Spike Dup (B3F0204-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301702-01					
Lead	117.987	1.0	125.000	2.98075	92.0	51 - 106	2.35	20	
Batch B3F0205 - EPA 3050B									
Blank (B3F0205-BLK1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	ND	1.0			NR				
LCS (B3F0205-BS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
Lead	46.9914	1.0	50.0000		94.0	80 - 120			
Duplicate (B3F0205-DUP1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301674-10					
Lead	519.522	1.0		1537.86	NR		99.0	20	R
Matrix Spike (B3F0205-MS1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	119.926	1.0	125.000	2.26712	94.1	51 - 106			
Matrix Spike Dup (B3F0205-MSD1)					Prepared: 6/11/2013 Analyzed: 6/12/2013				
				Source: 1301679-01					
Lead	122.519	1.0	125.000	2.26712	96.2	51 - 106	2.14	20	



Certificate of Analysis

Geocon Consultants, Inc.

6671 Brisa Street

Livermore, CA 94550

Project Number : Hum 101, S9300-01-212

Report To : Dave Watts

Reported : 06/21/2013

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
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY STUDY RECORD

- 1 of 1



**Advanced Technology
Laboratories**

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

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FEDEX <input checked="" type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: _____	Date: _____	

Client: GEOCON CONSULTANTS, INC.	Address: 6671 Brisa Street	TEL: (925) 371-5900
Attn: P. WATTS	City: Livemore State: CA Zip Code: 94550	FAX: (925) 371-5915

Project Name: Hum 101	Project #: 59300-01-212	Sampler: (Printed Name) D. WATTS	(Signature) <i>[Signature]</i>
Relinquished by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/5/13 Time: PM	Received by: (Signature and Printed Name) FED-EX	Date: 6/5/13 Time: PM
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) <i>[Signature]</i>	Date: 6/7/13 Time: 1302

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: P. WATTS 6/4/13 Print Name Date <i>[Signature]</i> Signature	Send Report To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: SAME AS ABOVE Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: Paint chips (total Pb) Anticipate Soluble Requests
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

Sample/Records - Archival & Disposal				Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				Container(s)	PRESERVATION	QA/QC											
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.					8091A (Pesticides)	8092 (PCB)	8200A (Volatiles)	8270C (BVA)				8010B (Total Metal)	8015B (GRO) / BTEX	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	SOIL	WATER	GROUND WATER	WASTEWATER	PAINT	TAT
LAB USE ONLY:	Batch #:	Sample Description																				
I T E M	Lab No.	Sample I.D. / Location	Date	Time																		
	1301674 - 1	0169 L/R - P1A/B	6/4/13	VATC																		
	- 2	0095 ↓																				
	- 3	SPH -																				
	- 4	NPH -																				
	- 5	0193 -																				
	- 6	0115 -																				
	- 7	0245 -																				
	- 8	↓ - P2A/B																				
	- 9	0024 L/R - P1A/B																				
	- 10	0023 L/R -																				
	- 11	0119 -																				
	- 12	↓ - P2A/B																				

• TAT starts 8 a.m. following day if samples received after 3 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
--------------------------------------------------------------------	---------------------------	---------------------------	------------------------	----------------------	-----------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------

Carmen Aguila

From: David Watts [watts@geoconinc.com]
Sent: Saturday, June 08, 2013 12:35 PM
To: DAW WK EMAIL
Cc: Carmen Aguila; Diane Galvan
Subject: Fwd: Hum 101, S9300-01-212

Sent from my iPhone

Begin forwarded message:

From: David Watts <watts@geoconinc.com>
Date: June 8, 2013, 10:56:06 AM PDT
To: Fernando Diwa <Fernando@atlglobal.com>
Subject: Re: Hum 101, S9300-01-212

0245-p2a/b is the red paint

All samples are 2-point field composites (A/B). Thx.

Sent from my iPhone



Project No. S9300-06-162
July 27, 2011

Steve Werner, Task Order Manager
Caltrans District 1
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
BOYES CREEK VIADUCT
DELBERT A. BROWN MEMORIAL BRIDGE (04-0286)
HUMBOLDT COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, E-FIS 01 0002 0279 (EA 01-0A3900)
TASK ORDER NO. 162, 01-HUM-101, PM 129.21

Dear Mr. Werner:

In accordance with California Department of Transportation Contract No. 03A1368 and Task Order No. 162, we have performed an asbestos and lead-containing paint survey of the subject bridge in Humboldt County, California. The scope of services included surveying the bridge for suspect asbestos-containing materials and lead-containing paint, collecting bulk samples, and submitting the samples to laboratories for analyses.

PROJECT DESCRIPTION

The project consists of the Delbert A. Brown Memorial Bridge (04-0286) over the Boyes Creek viaduct at Post Mile (PM) 129.21 on Highway 101 in Humboldt County, California. We performed asbestos and LCP survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

GENERAL OBJECTIVES

The scope of services outlined in TO-162 included the determination of the presence and quantity of asbestos and LCP at the project location prior to various improvements. Assuming that no asbestos is added during future operations, our survey would satisfy National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements. 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.

BACKGROUND

Asbestos

The Code of Federal Regulations (CFR), 40 CFR 61, Subpart M, 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 Section 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).

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, Section 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, Section 1532.1.

Architectural Drawings and Previous Survey Activities

We reviewed structure architectural plans provided by Caltrans prior to field activities. We observed no evidence of asbestos or lead paint use on the architectural plans provided. Previous asbestos survey reports were not available for our review.

SCOPE OF SERVICES

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2011), 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, 2011), performed the asbestos and LCP survey at the project location on June 8, 2011.

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 four bulk asbestos samples representing two suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-162 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.
- 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.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

Lead Paint

Two bulk paint samples were collected from suspect LCP observed at the project location. We did not observe deteriorated LCP during our survey. Our sampling procedures in accordance with TO-162 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 seven-day turnaround time.

Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

INVESTIGATIVE RESULTS

Asbestos

No asbestos was detected in samples of suspect materials collected during our survey. Sample identification numbers, material descriptions, approximate quantities, friability assessments, and a summary of the analytical laboratory test results for asbestos are summarized below. Reproductions of the laboratory report and chain-of-custody documentation are attached.

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116				
Sample No.	Description of Material	Approximate Quantity	Friable	Asbestos Content
0286-1A and B	Concrete	NA	NA	ND
0286-2A and B	Expansion joint fill material	NA	NA	ND

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

Lead Paint

A sample representing intact yellow traffic striping exhibited a total lead concentration of 1,800 mg/kg and a TCLP lead concentration of 0.70 mg/l.

A sample representing intact white traffic striping did not contain detectable total lead above the laboratory reporting limit (RL) of 2.0 mg/kg.

Sample identification numbers, descriptions, peeling and flaking quantities, and a summary of the analytical laboratory test results for paint are summarized below. Reproductions of the laboratory reports and chain-of-custody documentation are attached.

Total and Soluble Lead				
Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Total Lead (mg/kg)	TCLP Lead (mg/l)
0286-P1	Yellow traffic striping	Intact	1,800	0.70
0286-P2	White traffic striping	Intact	<2.0	---

TCLP = Toxicity Characteristic Leaching Procedure (EPA Test Method 1311)

mg/kg = milligrams per kilogram (EPA Test Method 6010)

mg/l = milligrams per liter

< = Not detected at or above the indicated laboratory reporting limit

--- = Not analyzed

RECOMMENDATIONS

Asbestos

Since no asbestos was detected in samples collected during our survey, the Cal/OSHA asbestos standard does not apply for planned activities. In addition, demolition debris would not be considered as a California hazardous waste based on asbestos content. However, written notification to the North Coast Unified Air Quality Management District (NCUAQMD) is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

Lead Paint

Yellow traffic striping sampled during our survey would be classified as California hazardous based on lead content if stripped, blasted, or otherwise separated from the substrate.

White traffic striping sampled during our survey would not be considered a California or Federal hazardous waste based on lead content.

We recommend that all paints at the project location (graffiti, graffiti abatement, signage, etc.) be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during any future 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, Section 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, Section 1532.1, subsections (e) and (l), respectively. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

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 structure identified above. 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 structure 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.

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

Sincerely,

GEOCON CONSULTANTS INC.



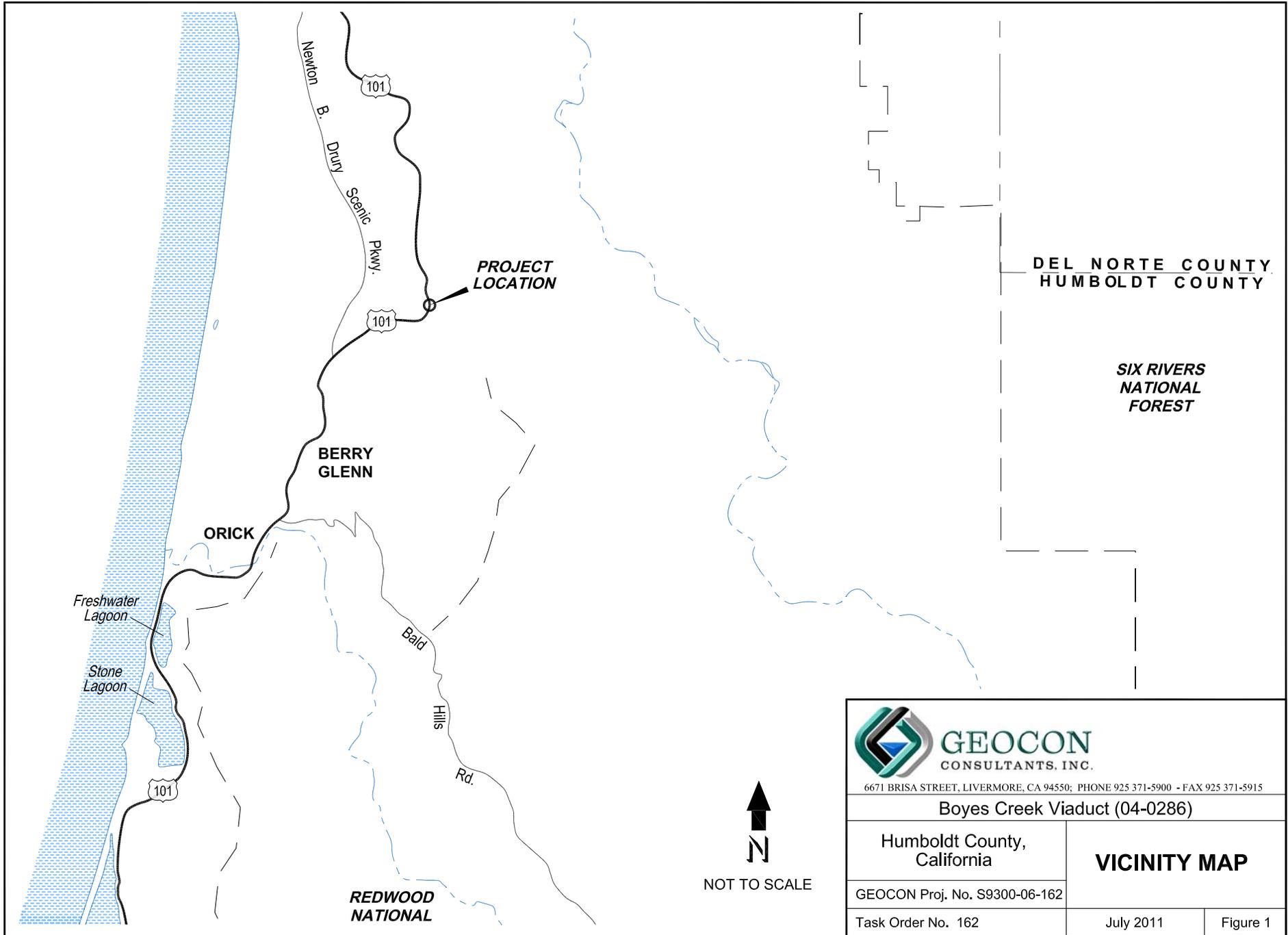
David A. Watts, CAC
Senior Project Scientist



John E. Juhrend, PE, CEG
Project Manager

(2 + 4 CD) Addressee

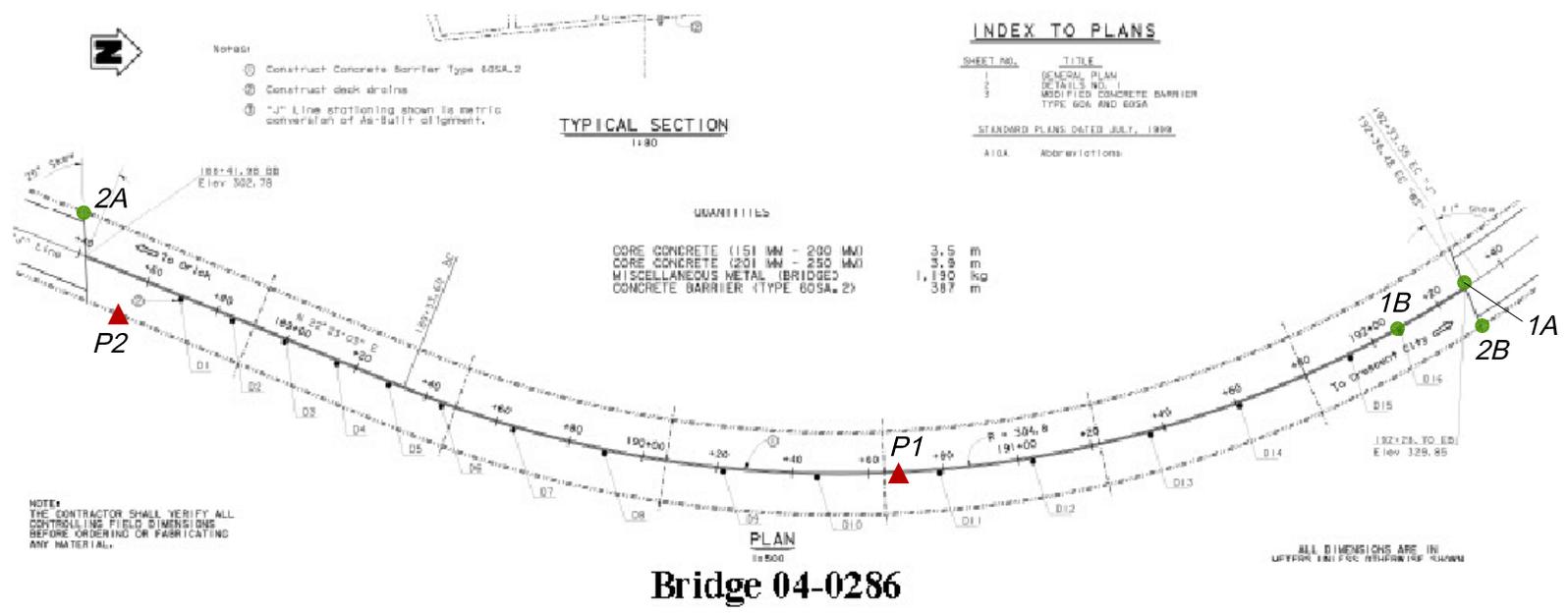
Attachments: Figure 1, Vicinity Map
 Figure 2, Site Plan
 Site Photographs (1 through 3)
 Analytical Laboratory Reports and Chain-of-custody Documentation



 <p>6671 BRISA STREET, LIVERMORE, CA 94550; PHONE 925 371-5900 - FAX 925 371-5915</p>	
<p>Boyes Creek Viaduct (04-0286)</p>	
<p>Humboldt County, California</p>	<p>VICINITY MAP</p>
<p>GEOCON Proj. No. S9300-06-162</p>	
<p>Task Order No. 162</p>	<p>July 2011</p>
<p>Figure 1</p>	

LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location





6671 BRISA STREET, LIVERMORE, CA 94550; PHONE 925 371-5900 - FAX 925 371-5915

Boyes Creek Viaduct (04-0286)

Humboldt County, California	SITE PLAN
GEOCON Proj. No. S9300-06-162	
Task Order No. 162	July 2011
Figure 2	



Photo 1 – Bridge 04-0286 in Humboldt County, California



Photo 2 – Bridge deck



Photo 3 – Bridge abutment



GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

PHOTOGRAPHS 1, 2, & 3

Boyes Creek Viaduct 04-0286
Humboldt County, California

S9300-06-162

Task Order No. 162

July 2011



EMSL Analytical, Inc.

7916 Convoy Court, Building 4, Suite A, San Diego, CA 92111

Phone: 858-499-1303 Fax: (858) 499-1304 Email: sandiegolab@emsl.com

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

Livermore, CA 94550

Customer ID: GECN21
Customer PO: S9300-06-162
Received: 06/13/11 9:00 AM
EMSL Order: 431100866

Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **S9300-06-162 / 04-0286**

EMSL Proj: S9300-06-**
Analysis Date: 6/17/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
04-0286-1A 431100866-0001		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
04-0286-1B 431100866-0002		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
04-0286-2A 431100866-0003		Brown Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
04-0286-2B 431100866-0004		Brown Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected

Initial report from 06/17/2011 15:47:58

Analyst(s)

Michelle LaVallee (4)

Griselda Hernandez, 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.
Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

431100866

EMSL ANALYTICAL, INC.
2235 POLVOROSA DR., STE. 230
SAN LEANDRO, CA 94577

PHONE: (510) 895-3675

FAX: (510) 895-3680

Company: GEDCON		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 6671 BRISA ST		Third Party Billing requires written authorization from third party	
City: LIVERMORE	State/Province: CA	Zip/Postal Code: 94550	Country: USA
Report To (Name): D. WATTS		Fax #: 925-371-5915	
Telephone #: 925-371-5900		Email Address: WATTS@GEDCONINC.COM	
Project Name/Number: 04-0286		\$9300-06-162	
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Purchase Order:		U.S. State Samples Taken:	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>
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Check For Positive Stop - Clearly Identify Homogenous Group

Samplers Name: **D. WATTS** Samplers Signature: **WATTS**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
0286-1A/1B	Concrete	NA	6/8/11
↓ -2A/2B	JFM	↓	↓

Client Sample # (s):	-	Total # of Samples:	4
Relinquished (Client):	WATTS	Date:	6/9/11
Received (Lab):	[Signature]	Date:	6/13/11
Comments/Special Instructions:			

Relinquished by EMSL San
Leandro **Miley 6/13/11 Miley**

June 27, 2011



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

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 118398

RE: 04-0286, S9300-06-162

Attention: Dave Watts

Enclosed are the results for sample(s) received on June 13, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

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

Eddie F. Rodriguez
Laboratory Director

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



CLIENT: Geocon Consultants, Inc.
Project: 04-0286, S9300-06-162
Lab Order: 118398

CASE NARRATIVE

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 118402-001AMS and 118402-001AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Analytical Comments for Method 7420

RPD for Duplicate (DUP) is outside criteria for sample 118427-049ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 27-Jun-11

CLIENT: Geocon Consultants, Inc.
Project: 04-0286, S9300-06-162

Lab Order: 118398

Lab ID: 118398-001
Client Sample ID: 0286-P1

Collection Date: 6/8/2011
Matrix: PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP6_110617G	QC Batch: 73630				PrepDate: 6/17/2011	Analyst: IL
Lead	1800	2.0		mg/Kg	1	6/17/2011 03:22 PM

LEAD BY ATOMIC ABSORPTION (TCLP)

EPA3010A

EPA 1311/ 7420

RunID: AA2_110624C	QC Batch: 73851				PrepDate: 6/24/2011	Analyst: VV
Lead	0.70	0.25		mg/L	1	6/24/2011 03:04 PM

Lab ID: 118398-002
Client Sample ID: 0286-P2

Collection Date: 6/8/2011
Matrix: PAINT CHIP

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID: ICP6_110617G	QC Batch: 73630				PrepDate: 6/17/2011	Analyst: IL
Lead	ND	2.0		mg/Kg	1	6/17/2011 03:23 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



**Advanced Technology
Laboratories**

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 118398
Project: 04-0286, S9300-06-162

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-73630	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/17/2011	RunNo: 134134						
Client ID: PBS	Batch ID: 73630	TestNo: EPA 6010B EPA 3050B		Analysis Date: 6/17/2011	SeqNo: 2191493						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.392	1.0									
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Sample ID: LCS-73630	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/17/2011	RunNo: 134134						
Client ID: LCSS	Batch ID: 73630	TestNo: EPA 6010B EPA 3050B		Analysis Date: 6/17/2011	SeqNo: 2191494						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	50.901	1.0	50.00	0.3922	101	80	120				
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Sample ID: 118402-001A-DUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/17/2011	RunNo: 134134						
Client ID: ZZZZZ	Batch ID: 73630	TestNo: EPA 6010B EPA 3050B		Analysis Date: 6/17/2011	SeqNo: 2191504						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	1811.042	2.0						1604	12.1	20	
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Sample ID: 118402-001A-MS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/17/2011	RunNo: 134134						
Client ID: ZZZZZ	Batch ID: 73630	TestNo: EPA 6010B EPA 3050B		Analysis Date: 6/17/2011	SeqNo: 2191505						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

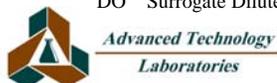
Lead	1532.907	2.0	250.0	1604	-28.4	34	126				S
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Sample ID: 118402-001A-MSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 6/17/2011	RunNo: 134134						
Client ID: ZZZZZ	Batch ID: 73630	TestNo: EPA 6010B EPA 3050B		Analysis Date: 6/17/2011	SeqNo: 2191506						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	1427.310	2.0	250.0	1604	-70.7	34	126	1533	7.13	20	S
------	----------	-----	-------	------	-------	----	-----	------	------	----	---

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference



CLIENT: Geocon Consultants, Inc.
Work Order: 118398
Project: 04-0286, S9300-06-162

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-73851A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: PBS	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196707						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: MB-73843A TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: PBS	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196708						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

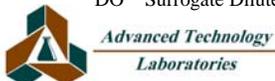
Sample ID: LCS-73851	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: LCSS	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196709						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.061	0.25	1.000	0	106	80	120				

Sample ID: 118427-006A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: ZZZZZ	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196720						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.366	0.25						0.3911	6.74	20	

Sample ID: 118427-006A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: ZZZZZ	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196721						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.168	0.25	2.500	0.3911	111	70	130				

Qualifiers:

- | | | |
|---------------------------------------------------|----------------------------------------|----------------------------------------------------------------|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



CLIENT: Geocon Consultants, Inc.
Work Order: 118398
Project: 04-0286, S9300-06-162

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-73851B	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: PBS	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196722						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.230	0.25									

Sample ID: MB-73843B TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: PBS	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196723						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.211	0.25									

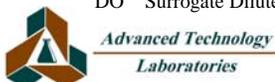
Sample ID: 118427-049A-DUP	SampType: DUP	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: ZZZZZ	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196734						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.539	0.25						0.3855	33.2	20	R

Sample ID: 118427-049A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: ZZZZZ	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196735						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.442	0.25	2.500	0.3855	122	70	130				

Sample ID: 118427-049A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 6/24/2011	RunNo: 134392						
Client ID: ZZZZZ	Batch ID: 73851	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 6/24/2011	SeqNo: 2196736						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.428	0.25	2.500	0.3855	122	70	130	3.442	0.429	20	

Qualifiers:

- | | | |
|---------------------------------------------------|----------------------------------------|----------------------------------------------------------------|
| B Analyte detected in the associated Method Blank | E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | S Spike/Surrogate outside of limits due to matrix interference |
| DO Surrogate Diluted Out | Calculations are based on raw values | |



Diane Galvan

From: David Watts [watts@geoconinc.com]
Sent: Monday, June 13, 2011 1:10 PM
To: Diane Galvan
Cc: Steve Werner
Subject: S9300-06-162

Diane,

For the paint samples you receive today on this job:

- 1) Please run TCLPs on all samples with a TTLC of 1000 ppm or greater.
- 2) Please run WETs on any sample with a TTLC ranging from 50 to 999 ppm.
- 3) Please run TCLPs on any sample that fails WET that also has a TTLC of 100 ppm or greater.

Please run Cr6 on paint samples:

0072-P3
0123-P3
0014-P3
0017L-P3
0215-P2
0044-P3
0137-P3
0023-P3
0019-P3.

Standard TATs.

Thanks.



David Watts, CAC | Sr. 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