

INFORMATION HANDOUT

WATER QUALITY

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
(CENTRAL VALLEY REGION)**

AGREEMENTS

**CALIFORNIA DEPARTMENT OF FISH AND GAME
STREAMBED ALTERATION AGREEMENT**

NOTIFICATION NO.1600-2010-0198-R2

MATERIALS INFORMATION

**AERIALY DEPOSITED LEAD, TRAFFIC STRIPE PAINT
AND NATURALLY OCCURRING ASBESTOS
SITE INVESTIGATION REPORT**



California Regional Water Quality Control Board Central Valley Region

Katherine Hart, Chair



Edmund G. Brown Jr.
Governor

11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114
Phone (916) 464-3291 • FAX (916) 464-4645
<http://www.waterboards.ca.gov/centralvalley>

Linda S. Adams
Acting Secretary for
Environmental Protection

11 February 2011

Michael Cane
California Department of Transportation
703 B Street
Marysville, CA 95901

CLEAN WATER ACT §401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION FOR DISCHARGE OF DREDGED AND/OR FILL MATERIALS FOR THE COLUSA 20 MAINTENANCE PROJECT (WDID#5A06CR00044), COLUSA COUNTY

This Order responds to your 31 December 2010 application submittal for the Water Quality Certification of a wall repair and building project impacting approximately 0.0067 acre of waters of the United States.

WATER QUALITY CERTIFICATION STANDARD CONDITIONS:

1. This Order serves as a Water Quality Certification (Certification) action that is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to §13330 of the California Water Code and §3867 of Title 23 of the California Code of Regulations (23 CCR).
2. This certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to 23 CCR subsection 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. The validity of any non-denial certification action shall be conditioned upon total payment of the full fee required under 23 CCR §3833, unless otherwise stated in writing by the certifying agency.
4. Certification is valid for the duration of the described project. This certification is no longer valid if the project (as currently described) is modified, or coverage under Section 404 of the Clean Water Act has expired.
5. All reports, notices, or other documents required by this Water Quality Certification or requested by the Central Valley Regional Water Quality Control Board (Central Valley Water Board) shall be signed by a person described below or by a duly authorized representative of that person.

California Environmental Protection Agency

- a. For a corporation: by a responsible corporate officer such as (1) a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function; (2) any other person who performs similar policy or decision-making functions for the corporation; or (3) the manager of one or more manufacturing, production, or operating facilities if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor.
 - c. For a municipality, State, federal, or other public agency: by either a principal executive officer or ranking elected official.
6. Any person signing a document under Standard Condition number 5 shall make the following certification, whether written or implied:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

ADDITIONAL TECHNICALLY CONDITIONED CERTIFICATION CONDITIONS:

In addition to the above standard conditions, The California Department of Transportation shall satisfy the following:

1. The California Department of Transportation shall notify the Central Valley Water Board in writing 7 days in advance of the start of any in-water activities.
2. Except for activities permitted by the U.S. Army Corps under §404 of the Clean Water Act, soil, silt, or other organic materials shall not be placed where such materials could pass into surface water or surface water drainage courses.
3. All areas disturbed by project activities shall be protected from washout or erosion.
4. The California Department of Transportation shall maintain a copy of this Certification and supporting documentation (Project Information Sheet) at the Project site during construction for review by site personnel and agencies. All personnel (employees, contractors, and subcontractors) performing work on the proposed project shall be adequately informed and trained regarding the conditions of this Certification.
5. An effective combination of erosion and sediment control Best Management Practices (BMPs) must be implemented and adequately working during all phases of construction.
6. All temporarily affected areas will be restored to pre-construction contours and conditions upon completion of construction activities.

7. The California Department of Transportation shall perform surface water sampling: 1) When performing any in-water work; 2) In the event that project activities result in any materials reaching surface waters or; 3) When any activities result in the creation of a visible plume in surface waters. The following monitoring shall be conducted immediately upstream out of the influence of the project and 300 feet downstream of the active work area. Sampling results shall be submitted to this office within two weeks of initiation of sampling and every two weeks thereafter. The sampling frequency may be modified for certain projects with written permission from the Central Valley Water Board.

Parameter	Unit	Type of Sample	Frequency of Sample
Turbidity	NTU	Grab	Every 4 hours during in water work
Settleable Material	ml/l	Grab	Same as above.
Visible construction related pollutants	Observations	Visible Inspections	Continuous throughout the construction period

8. Activities shall not cause turbidity increases in surface water to exceed:
- (a) where natural turbidity is less than 1 Nephelometric Turbidity Units (NTUs), controllable factors shall not cause downstream turbidity to exceed 2 NTU;
 - (b) where natural turbidity is between 1 and 5 NTUs, increases shall not exceed 1 NTU;
 - (c) where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent;
 - (d) where natural turbidity is between 50 and 100 NTUs, increases shall not exceed 10 NTUs;
 - (e) where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent.

Except that these limits will be eased during in-water working periods to allow a turbidity increase of 15 NTU over background turbidity as measured in surface waters 300 feet downstream from the working area. In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses will be fully protected. Averaging periods may only be assessed by prior permission of the Central Valley Water Board.

9. Activities shall not cause settleable matter to exceed 0.1 ml/l in surface waters as measured in surface waters 300 feet downstream from the project.
10. The discharge of petroleum products or other excavated materials to surface water is prohibited. Activities shall not cause visible oil, grease, or foam in the work area or downstream. The California Department of Transportation shall notify the Central Valley Water Board immediately of any spill of petroleum products or other organic or earthen materials.

11. The California Department of Transportation shall notify the Central Valley Water Board immediately if the above criteria for turbidity, settleable matter, oil/grease, or foam are exceeded.
12. The California Department of Transportation shall comply with all California Department of Fish and Game 1600 requirements for the project.
13. The use of netting material (e.g., monofilament-based erosion blankets) that could trap aquatic dependent wildlife is prohibited within the Project Area.
14. The California Department of Transportation must obtain coverage under the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board for any project disturbing an area of 1 acre or greater.
15. The Conditions in this water quality certification are based on the information in the attached "Project Information." If the information in the attached Project Information Sheet is modified or the project changes, this water quality certification is no longer valid until amended by the Central Valley Water Board.
16. The mitigation measures specified in the mitigation monitoring and reporting program for the approved Categorical Exemption for the project, as they pertain to biology, hydrology and water quality impacts, are included in this Water Quality Certification, as required by California Public Resource Code Section 21081.6 and CEQA Guidelines, California Code of Regulations Section 15097.
17. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under State law and section 401 (d) of the federal Clean Water Act. The applicability of any State law authorizing remedies, penalties, process, or sanctions for the violation or threatened violation constitutes a limitation necessary to ensure compliance with this Order.
 - a. If the California Department of Transportation or a duly authorized representative of the project fails or refuses to furnish technical or monitoring reports, as required under this Order, or falsifies any information provided in the monitoring reports, the California Department of Transportation is subject to civil, for each day of violation, or criminal liability.
 - b. In response to a suspected violation of any condition of this Order, the Central Valley Water Board may require The California Department of Transportation to furnish, under penalty of perjury, any technical or monitoring reports the Central Valley Water Board deems appropriate, provided that the burden, including cost of the reports, shall be in reasonable relationship to the need for the reports and the benefits to be obtained from the reports.
 - c. The California Department of Transportation shall allow the staff(s) of the Central Valley Water Board, or an authorized representative(s), upon the presentation of credentials and other documents, as may be required by law, to enter the project premises for inspection, including taking photographs and securing copies of project-related records, for the purpose of assuring compliance with this certification and determining the ecological success of the project.

18. The California Department of Transportation shall provide a Notice of Completion (NOC) no later than 30 days after the project completion. The NOC shall demonstrate that that the project has been carried out in accordance with the project's description (and any amendments approved). The NOC shall include a map of the project location(s), including final boundaries of any in situ restoration area(s), if appropriate, and representative pre and post construction photographs. Each photograph shall include a descriptive title, date taken, photographic site, and photographic orientation.

ADDITIONAL STORM WATER QUALITY CONDITIONS:

The California Department of Transportation shall also satisfy the following additional storm water quality conditions:

1. During the construction phase, The California Department of Transportation must employ strategies to minimize erosion and the introduction of pollutants into storm water runoff. These strategies must include the following:
 - (a) the Storm Water Pollution Prevention Plan (SWPPP) must be prepared during the project planning and design phases and implemented, as appropriate, before construction;
 - (b) an effective combination of erosion and sediment control Best Management Practices (BMPs) must be implemented and adequately working prior to the rainy season and during all phases of construction.

REGIONAL WATER QUALITY CONTROL BOARD CONTACT PERSON:

Skyler Anderson, Environmental Scientist
11020 Sun Center Drive #200
Rancho Cordova, California 95670-6114
sanderson@waterboards.ca.gov
(916) 464-4849

WATER QUALITY CERTIFICATION:

I hereby issue an order certifying that any discharge from the California Department of Transportation, Colusa 20 Maintenance Project (WDID# 5A06CR00044) will comply with the applicable provisions of §301 ("Effluent Limitations"), §302 ("Water Quality Related Effluent Limitations"), §303 ("Water Quality Standards and Implementation Plans"), §306 ("National Standards of Performance"), and §307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Resources Control Board Water Quality Order No. 2003-0017 DWQ "Statewide General Waste Discharge Requirements For Dredged Or Fill Discharges That Have Received State Water Quality Certification (General WDRs)".

Except insofar as may be modified by any preceding conditions, all certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in strict compliance with The California Department of Transportation's project description and the attached Project Information Sheet, and (b) compliance with all applicable requirements of the *Water Quality Control Plan for the Sacramento River and San Joaquin River*, Fourth Edition, revised September 2009.


Pamela C. Creedon
Executive Officer

Enclosure: Project Information

cc: See enclosure, page 9

PROJECT INFORMATION

Application Date: 31 December 2010

Applicant: Michael Cane
California Department of Transportation (Caltrans)
703 B Street
Marysville, CA 95901

Project Name: Colusa 20 Maintenance Project

Application Number: WDID#5A06CR00044

Type of Project: Erosion repair

Project Location: Section 32, Township 15 North, Range 4 West, MDB&M. Latitude: 39.1038° and Longitude: -122.3301°

County: Colusa

Receiving Water(s) (hydrologic unit): Salt Creek, Sacramento Hydrologic Basin, Colusa Basin Hydrologic Unit # 520.21, Colusa Trough HSA

Water Body Type: Riparian, Streambed

Designated Beneficial Uses: The *Water Quality Control Plan for the Sacramento River and San Joaquin River*, Fourth Edition, revised September 2009 (Basin Plan) has designated beneficial uses for surface and ground waters within the region. Beneficial uses that could be impacted by the project include, but are not limited to: Municipal and Domestic Water Supply (MUN); Agricultural Supply (AGR); Industrial Supply (IND); Hydropower Generation (POW); Groundwater Recharge, Water Contact Recreation (REC-1); Non-Contact Water Recreation (REC-2); Warm Freshwater Habitat (WARM); Cold Freshwater Habitat (COLD); and Wildlife Habitat (WILD). A comprehensive and specific list of the Beneficial Uses applicable for the project area can be found at http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/

303(d) List of Water Quality Limited Segments: None

Project Description (purpose/goal): The Colusa 20 Maintenance Project consists of repairing and lengthening an existing gabion wall. Erosion from Salt Creek is undermining the foundation of the wall and causing several gabion baskets to fail. Additionally, sheet flow from the roadway is causing a small erosion slump at the Eastern end of the gabion wall.

Caltrans is proposing to reinforce the foundation by filling voids with shot concrete and stabilize the bank by placing vegetated rock slope protection (RSP) along the foundation of the wall.

The slip-out will be repaired by extending the gabion wall 24-feet in length to the east. Sheet flow from the roadway will be redirected around the wall to an existing drain by extending the paved shoulder to 4-feet in width and installing a dike.

The Colusa 20 Maintenance Project will permanently impact 0.0067 acres of water of the United States.

Preliminary Water Quality Concerns: Construction activities may impact surface waters with increased turbidity and settleable matter.

Proposed Mitigation to Address Concerns: The California Department of Transportation will implement Best Management Practices (BMPs) to control sedimentation and erosion. All temporary affected areas will be restored to pre-construction contours and conditions upon completion of construction activities. The California Department of Transportation will conduct turbidity and settleable matter testing during in-water work, stopping work if the Basin Plan criteria are exceeded or are observed.

Fill/Excavation Area: Approximately 68.8 cubic yards of RSP and 10 cubic yards of concrete will be placed into 0.0067 acres of un-vegetated streambed and 0.0124 acres of riparian area (for a total of 0.0191 acres of fill).

Dredge Volume: None

U.S. Army Corps of Engineers Permit Number: Nationwide Permit # 14

Department of Fish and Game Streambed Alteration Agreement: The California Department of Transportation applied for a Streambed Alteration Agreement on 12 December 2010.

Possible Listed Species: valley elderberry longhorn beetle, California red-legged frog, northern spotted owl.

Status of CEQA Compliance: The Central Valley Water Board concurs that this project meets the Categorical Exemption, under Title 14, Section 15302 of the California Code of Regulations.

Compensatory Mitigation: None Required

Application Fee Provided: Total fees of \$778.00 have been submitted to the Central Valley Water Board as required by 23 CCR §3833b (3) (A) and by 23 CCR §2200(e).

DISTRIBUTION LIST

United States Army Corp of Engineers
Sacramento District Office
Regulatory Section, Room 1480
1325 J Street
Sacramento, CA 95814-2922

United States Fish & Wildlife Service
Sacramento Fish & Wildlife Office
2800 Cottage Way
Sacramento, CA 95825

Jeff Drongesen
Department of Fish and Game
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670

Bill Jennings
CA Sportfishing Protection Alliance
3536 Rainier Avenue
Stockton, CA 95204

(Electronic copy only) Bill Orme
State Water Resources Control Board
401 Certification and Wetlands Unit Chief

(Electronic copy only) Dave Smith
Wetlands Section Chief (W-3)
United States Environmental Protection Agency



North Central Region
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670-4599
916-358-2900
<http://www.dfg.ca.gov>

March 2, 2011

Najed Dakek
California Department of Transportation
703 B Street
Marysville, CA 95901

Subject: Final Lake or Streambed Alteration Agreement
Notification No. 1600-2010-0198-R2
Salt Creek – Colusa 20 Maintenance Project

Dear Mr. Dakek:

Enclosed is the final Streambed Alteration Agreement (“Agreement”) for the Salt Creek – Colusa 20 Maintenance Project. Before the Department of Fish and Game (“Department”) may issue an Agreement, it must comply with the California Environmental Quality Act (“CEQA”). In this case, the Department, acting as a lead agency, determined your project is exempt from CEQA and filed a notice of exemption (“NOE”) on March 2, 2011.

Under CEQA, filing a NOE starts a 35-day period within which a party may challenge the filing agency’s approval of the project. You may begin your project before the 35-day period expires if you have obtained all necessary local, state, and federal permits or other authorizations. However, if you elect to do so, it will be at your own risk.

If you have any questions regarding this matter, please contact Tim Nosal, Environmental Scientist at (916) 358-2853 or tnosal@dfg.ca.gov.

Sincerely,

 Kent Smith
Acting Regional Manager

ec: Tim Nosal

tnosal@dfg.ca.gov

CALIFORNIA DEPARTMENT OF FISH AND GAME
NORTH CENTRAL REGION
1701 NIMBUS ROAD, SUITE A
RANCHO CORDOVA, CA 95670



STREAMBED ALTERATION AGREEMENT
NOTIFICATION No. 1600-2010-0198-R2
Salt Creek

CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS)
COLUSA 20 MAINTENANCE PROJECT

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Game (DFG) and Caltrans (Permittee): as represented by Najed Dakak.

RECITALS

WHEREAS, pursuant to Fish and Game Code (FGC) section 1602, Permittee notified DFG on December 31, 2010 that Permittee intends to complete the project described herein.

WHEREAS, pursuant to FGC section 1603, DFG has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, Permittee agrees to complete the project in accordance with the Agreement.

PROJECT LOCATION

The project is located at Salt Creek, in the County of Colusa, State of California; Latitude 39.1038, Longitude -122.3301 or Section 32, Township 15N, Range 4W, U.S. Geological Survey (USGS) map Salt Canyon, Mount Diablo baseline and meridian.

PROJECT DESCRIPTION

The project is limited to repairs to an embankment slipout and a failing gabion wall on State Route 20 in Colusa County. The purpose of this project is to repair and lengthen an existing gabion wall. Erosion from Salt Creek is undermining the foundation of the wall and causing several baskets to fail, additionally sheet flow from the roadway is

causing a small slipout at the Eastern end of the gabion wall. Caltrans is proposing to reinforce the foundation by filling voids with shotcrete and stabilize the bank by placing vegetated RSP along the foundation of the wall with stone toes at points subject to severe erosion. The slipout will be repaired by extending the existing gabion wall 24 feet to the East. Additionally sheet flow from the roadway will be redirected around the wall to an existing overside drain by extending the paved shoulder to four feet and installing a Hot Mix Asphalt (HMA) dike. In order to facilitate traffic flows during construction the Northern section of paved shoulder will be extended to four feet as well. Three trees are growing under and adjacent to the gabion wall and will be removed. The trees are an arroyo willow (*Salix lasiolepis*), a California redbud (*Cercis occidentalis*) and a Fremont's cottonwood (*Populus fremontii*). Cuttings from the removed arroyo willow will be used to vegetate the rock slope protection (RSP).

A detailed project description is provided in the notification materials submitted to DFG. The notification, together with all supporting documents submitted with the notification, *Categorical Exemption/Categorical Exclusion Determination Form* (EA 0F0500), *Avoidance and Minimization Measures* (for this project), *Final Drainage Report for Embankment Slipout Repair in Colusa County* (2010), *Natural Environment Study (Minimal Impacts) – Colusa 20 Maintenance Project* (2010), *Project Description (for this project)*, *Roadway Plans/Roadway Work Plan Set/Water Diversion Plan* (03-0F0500), and *Impacts Mapping for Caltrans Colusa 20 Highway – EA:03-0F050* (2010) are hereby incorporated into this agreement to describe the location, features, avoidance measures and mitigation measures of the proposed project.

PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include: bent-flowered fiddleneck (*Amsinckia lunaris*), American badger (*Taxidea taxus*), western pond-turtle (*Actinemys marmorata*), valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), foothill yellow-legged frog (*Rana boylei*), warm water fish species, amphibians, and other aquatic and terrestrial plant and wildlife species.

The adverse effects the project could have on the fish or wildlife resources identified above include: disturbance from project activity; direct take of terrestrial species; loss of riparian habitat; direct take of fish and other aquatic species; diversion of creek around project site; and temporary de-watering of the watercourse.

MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

1. Administrative Measures

Permittee shall meet each administrative requirement described below.

- 1.1 Documentation at Project Site. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification

materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to DFG personnel, or personnel from another state, federal, or local agency upon request.

- 1.2 Providing Agreement to Persons at Project Site. Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the project at the project site on behalf of Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.
- 1.3 Notification of Conflicting Provisions. Permittee shall notify DFG if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, DFG shall contact Permittee to resolve any conflict.
- 1.4 Project Site Entry. Permittee agrees that DFG personnel may enter the project site to verify compliance with the Agreement. DFG personnel may only enter the project site when it is safe to do so. When appropriate, DFG personnel shall contact the Permittee prior to entering the construction area.
- 1.5 Authorized Work. The notification, together with all supporting documents submitted with the notification, is hereby incorporated into this agreement to describe the location and features of the proposed project. The Permittee agrees that all work shall be done as described in the notification and supporting documents, incorporating all project modifications, wildlife resource protection features, mitigation measures, and provisions as described in this agreement. Where apparent conflicts exist between the notification and the provisions listed in this agreement, the Permittee shall comply with the provisions listed in this agreement. The Permittee further agrees to notify DFG of any modifications made to the project plans submitted to DFG. At the discretion of DFG, this agreement will be amended to accommodate modifications to the project plans submitted to DFG and/or new project activities.

2. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and wildlife resources identified above, Permittee shall implement each measure listed below.

2.1 Establish Environmentally Sensitive Areas

- Sensitive natural resource features occurring outside of the expected construction impact area will be avoided or minimized by designating these features as “environmentally sensitive areas” (ESAs) on project plans and in project specifications.
- ESA information will be shown on contract plans and discussed in the Special

Provisions. ESA provisions may include, but are not limited to, the use of temporary orange fencing to delineate the proposed limit of work in areas adjacent to sensitive resources, or to delineate and exclude sensitive resources from potential construction impacts.

- Contractor encroachment into ESAs will be restricted (including the staging/operation of heavy equipment or casting of excavation materials).
- ESA provisions shall be implemented as a first order of work, and remain in place until all construction activities are complete.

2.2: Pre-Construction Surveys for Special Status Plants

- The proposed maintenance project may result in effects to vegetation communities in which sensitive plant species may occur. Surveys for special status plant species shall be conducted prior to construction of the proposed repair project.
- If special status plant species are detected during pre-construction surveys, the CDFG and/or USFWS shall be consulted after special status plant surveys are complete to ensure that potential impacts are avoided or minimized, and that project activities do not inhibit long-term conservation efforts for the survival of special status plant species.
- Should a special status plant species [as per CEQA sections 15380 and 15125 (c)] be discovered before or during the life of the project, a 25-foot no-operations buffer shall be flagged around the area and the CDFG shall be immediately notified. Consultation with the CDFG and/or USFWS shall ensure that potential impacts are avoided or minimized, and that project activities do not inhibit long-term conservation efforts for the survival of special status plant species.

2.3: Comply with Migratory Bird Treaty Act (MBTA)

- Implementation of the proposed maintenance project would result in the temporary disturbance and permanent loss of wooded and grassland habitat that provides potential breeding and foraging habitat for a number of bird species protected under the MBTA, or classified as California species of special concern, California fully protected species, or breeding raptors. The following measures are recommended to reduce project impacts on bird species:
- Minimize removal of native vegetation by locating staging areas and access routes in previously disturbed areas and establishing Environmentally Sensitive Areas;

2.3a: Restrict Timing of Vegetation Removal

- If feasible, removal of vegetation shall be conducted in the fall and winter (between September 1st and February 14th) after fledging and before the initiation of breeding activities.

2.3b: Pre-Construction Nesting Bird Surveys

- If vegetation removal during migratory bird non-nesting season is

determined unfeasible, then pre-construction bird nest surveys shall be performed in spring to determine the location of nest sites within the proposed project areas.

- If active bird nests are found, Caltrans shall consult with USFWS regarding appropriate action to comply with the Migratory Bird Treaty Act of 1918, and with CDFG to comply with provisions of the Fish and Game Code of California.
- If a lapse in project related work of fifteen (15) days or longer occurs, another survey and, if required, consultation with USFWS and CDFG will be required before the work can be reinitiated.

2.4: Minimize Disturbance to Jurisdictional Waters

- All waters adjacent to the construction zone that will not be impacted as a result of the project construction will be designated as ESAs, and shall be fenced and signed to assure no inadvertent damage to these resources will occur.
- Disruption of the streambeds and adjacent riparian corridors will be minimized and vegetation removal shall be limited to the absolute minimum amount required for construction.

2.5: Conduct in water work during the Low/No flow period

- All in-stream activities will be conducted during the low/no flow period from summer to early fall (June 21st – October 14th).

2.6: Containment Measures / Best Management Practices

- Caltrans Standard Specifications require the contractor to submit a Storm Water Pollution Prevention Plan (SWPPP). This plan must meet the standards and objectives to minimize water pollution impacts set forth in section 7-1.01G of Caltrans Standard Specifications. These standards/objectives are at times referred to as Best Management Practices (BMPs).
- Measures will be employed to prevent any construction material, debris, or petroleum products associated with equipment from entering surface waters. BMPs for erosion control will be implemented and in place prior to, during, and after construction in order to prevent silt, sediment, backfill, or petroleum products from entering surface waters.
- The SWPPP must also be in compliance with the goals and restrictions identified in the State Water Quality Control Board's Basin Plan for the project area.

2.7: Noxious Weed Prevention

- Remove mud, dirt, and plant parts from project equipment before moving equipment into a project area. Revegetate disturbed soil in a manner that optimizes plant establishment for that specific site.

- Revegetation may include topsoil replacement, planting, seeding, fertilization, liming, and weed-free mulching as necessary.
- Only native seed material shall be used; seed, hay and straw used in erosion control applications shall be certified weed-free or weed-seed free.

2.8: Biologist Monitor During in Stream Work

- A qualified biologist must be present for all of the in-stream work.
- The biologist will be ensuring that no adverse impacts occur to sensitive species that may be present within the ESL. These species include the western pond turtle and the foothill yellow-legged frog.
- If individuals of either of these species are present in the intended work area the biologist will be responsible for the relocation of the animal into an adjacent area of the stream that will not be impacted.

2.9: Work Window Within 100' of Valley Elderberry Longhorn Beetle Habitat

- No project related work, including staging and storage of materials, will be conducted within 100' of Valley Elderberry Longhorn Beetle habitat from March 15th to June 15th.

3. Compensatory Measures

To compensate for adverse impacts to fish and wildlife resources identified above that cannot be avoided or minimized, Permittee shall implement each measure listed below.

- 3.1 Site Restoration. All exposed/disturbed areas and access points within the stream zone left barren of vegetation as a result of the construction activities shall be restored using locally native grass seeds, locally native grass plugs and/or a mix of quick growing sterile non-native grass with locally native grass seeds. Seeded areas shall be covered with broadcast straw and/or jute netted (monofilament erosion blankets are not authorized).

4. Reporting Measures

Permittee shall meet each reporting requirement described below.

- 4.1 The Permittee shall notify DFG within two working days of beginning work within the stream zone of Salt Creek. Notification shall be submitted as instructed in Contact Information section below. Email notification is preferred.
- 4.2 Upon completion of the project activities described in this agreement, the work area within the stream zone shall be digitally photographed. Photographs shall be submitted to DFG within two days of completion. Photographs and project

commencement notification shall be submitted as instructed in Contact Information section below. Email submittal is preferred.

CONTACT INFORMATION

Any communication that Permittee or DFG submits to the other shall be in writing and any communication or documentation shall be delivered to the address below by U.S. mail, fax, or email, or to such other address as Permittee or DFG specifies by written notice to the other.

To Permittee:

Najed Dakak
California Department of Transportation
703 B Street
(530) 741-5457

cc:

Michael Cane
California Department of Transportation
703 B Street
(530) 741-4579
michael_cane@dot.ca.gov

To DFG:

Department of Fish and Game
North Central Region
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670
Attn: Lake and Streambed Alteration Program – Tim Nosal
Notification #1600-2010-0198-R2

Fax: 916-358-2912
Email: tnosal@dfg.ca.gov

LIABILITY

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute DFG's endorsement of, or require Permittee to proceed with the project. The decision to proceed with the project is Permittee's alone.

SUSPENSION AND REVOCATION

DFG may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before DFG suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before DFG suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused DFG to issue the notice.

ENFORCEMENT

Nothing in the Agreement precludes DFG from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects DFG's enforcement authority or that of its enforcement personnel.

OTHER LEGAL OBLIGATIONS

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 et seq. (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

AMENDMENT

DFG may amend the Agreement at any time during its term if DFG determines the amendment is necessary to protect an existing fish or wildlife resource.

Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by DFG and Permittee. To request an amendment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

TRANSFER AND ASSIGNMENT

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective, unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter DFG approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the minor amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

EXTENSIONS

In accordance with FGC section 1605(b), Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, Permittee shall submit to DFG a completed DFG "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). DFG shall process the extension request in accordance with FGC 1605(b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (Fish & G. Code, § 1605, subd. (f)).

EFFECTIVE DATE

The Agreement becomes effective on the date of DFG's signature, which shall be: 1) after Permittee's signature; 2) after DFG complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at http://www.dfg.ca.gov/habcon/ceqa/ceqa_changes.html.

TERM

This Agreement shall expire on December 31, 2015 unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee's behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

AUTHORIZATION

This Agreement authorizes only the project described herein. If Permittee begins or completes a project different from the project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify DFG in accordance with FGC section 1602.

CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

FOR CALIFORNIA DEPARTMENT OF TRANSPORTATION



Najed Dakak
Project Manager



Date

FOR DEPARTMENT OF FISH AND GAME

J. M. Bronger

W Kent Smith
Regional Manager

3/2/11
Date

Prepared by: Tim Nosal
Environmental Scientist



**AERIALY DEPOSITED LEAD,
TRAFFIC STRIPE PAINT
AND NATURALLY OCCURRING ASBESTOS
SITE INVESTIGATION REPORT**

**State Route 20 Post Mile 10.7
Colusa County, California**

PREPARED FOR:

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



PREPARED BY:

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



**GEOCON PROJECT NO. S9300-06-149
TASK ORDER NO. 149, EA 03-0F0500**

JANUARY 2011



Project No. S9300-06-149
January 21, 2011

Mr. Rajive Chadha
California Department of Transportation - District 3
Environmental Engineering Office
P.O. Box 911
Marysville, California 95901

Subject: STATE ROUTE 20 POST MILE 10.7
COLUSA COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, TASK ORDER NO. 149, EA 03-0F0500
AERIALY DEPOSITED LEAD, TRAFFIC STRIPE PAINT AND
NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

Dear Mr. Chadha:

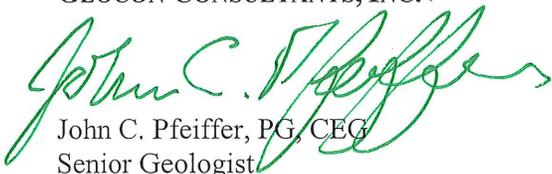
In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order No. 149, and Expense Authorization 03-0F0500, we have performed environmental engineering services at the project site. The site consists of State Route 20 in Colusa County, California, near approximate Post Mile 10.7. The accompanying report summarizes the services performed including the excavation of 23 direct-push borings and seven near-surface locations for the collection of soil samples for aerially deposited lead and/or naturally occurring asbestos analyses, and traffic stripe paint sampling.

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

Sincerely,

GEOCON CONSULTANTS, INC. .


John C. Pfeiffer, PG, CEG
Senior Geologist


John E. Juhrend, PE, CEG
Project Manager



(3 + 5 CDS) Addressee

TABLE OF CONTENTS

AERIALY DEPOSITED LEAD, TRAFFIC STRIPE PAINT AND NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT Page

1.0	INTRODUCTION.....	1
1.1	Project Description and Proposed Improvements	1
1.2	General Objectives	1
2.0	BACKGROUND.....	1
2.1	Potential Lead Soil Impacts	1
2.2	Hazardous Waste Determination Criteria	1
2.3	Naturally Occurring Asbestos	2
3.0	SCOPE OF SERVICES	3
3.1	Pre-field Activities	3
3.2	Field Activities	3
4.0	INVESTIGATIVE METHODS	4
4.1	ADL Soil Sampling Procedures	4
4.2	Paint Sampling Procedures	4
4.3	NOA Investigation	4
4.4	Traffic Control	5
4.5	Quality Assurance/Quality Control Procedures	5
4.6	Laboratory Analyses	5
4.6.1	ADL and Paint Samples	5
4.6.2	NOA Samples	5
4.6.3	Laboratory QA/QC Procedures.....	5
5.0	FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS	6
5.1	Geologic Map Review	6
5.2	Field Observations	6
5.3	ADL Soil Analytical Results.....	6
5.4	Paint Sample Analytical Results	6
5.5	NOA Results	7
5.6	Laboratory Quality Assurance/Quality Control (QA/QC).....	7
6.0	CONCLUSIONS AND RECOMMENDATIONS.....	8
6.1	ADL Soil Waste Classification/Disposal	8
6.1.1	Lead Worker Protection	8
6.2	Traffic Stripe Paint Waste Classification/Disposal	8
6.3	Naturally Occurring Asbestos	8
6.3.1	Asbestos Worker Protection.....	9
7.0	REPORT LIMITATIONS.....	11

FIGURES

1. Vicinity Map
2. Site Plan

TABLES

1. Summary of Soil Boring Coordinates and Lead Analytical Results
2. Summary of Traffic Stripe Paint Sample Analytical Results
3. Summary of NOA Analytical Results

APPENDIX

- A. Laboratory Reports and Chain-of-custody Documentation

AERIALY DEPOSITED LEAD, TRAFFIC STRIPE PAINT, AND NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Aerially Deposited Lead (ADL), Traffic Stripe Paint, and Naturally Occurring Asbestos (NOA) Site Investigation Report was prepared under California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order (TO) No. 149, and Expense Authorization (EA) 03-0F0500.

1.1 Project Description and Proposed Improvements

The project areas consist of the unpaved shoulder of westbound (WB) and eastbound (EB) State Route 20 (SR-20) near approximate Post Mile (PM) 10.7 (the Site) in Colusa County, California. The approximate project location is depicted on the attached Vicinity Map, Figure 1. Caltrans proposes roadway improvements including erosion repair near PM 10.7. The project limits and proposed improvements are depicted on the attached Site Plan, Figure 2.

1.2 General Objectives

The purpose of the scope of services outlined in TO No. 149 was to evaluate the Site for potential impacts due to ADL from motor vehicle exhaust in the surface and near-surface soils and the presence of NOA derived from ultramafic rock. The investigative results will be used by Caltrans to inform the construction contractors if ADL- or NOA-impacted soils are present within the project boundaries for construction worker health and safety, soil reuse evaluation and waste management/disposal purposes.

2.0 BACKGROUND

Regulatory criteria to classify a waste as “California hazardous” for handling and disposal purposes are contained in the California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 11, Article 3, § 66261.24. Criteria to classify a waste as “Resource, Conservation, and Recovery Act (RCRA) hazardous” are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

2.1 Potential Lead Soil Impacts

Ongoing testing by Caltrans has indicated that ADL exists along major freeway routes due to emissions from vehicles powered by leaded gasoline.

2.2 Hazardous Waste Determination Criteria

For waste containing metals, the waste is classified as California hazardous when: 1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the soluble metal content exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste may have the potential of exceeding the STLC when the waste’s total metal content is greater than or equal to ten times the respective STLC value, since the

WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the soluble metal content exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP). The TTLC value for lead is 1,000 milligrams per kilogram (mg/kg). The STLC and TCLP values for lead are both 5.0 milligrams per liter (mg/l).

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

The Department of Toxic Substances Control (DTSC) regulates and interprets hazardous waste laws in California. DTSC generally considers excavated or transported materials that exhibit “hazardous waste” characteristics to be a “waste” requiring proper management, treatment and disposal. Soil that contains lead above hazardous waste thresholds and is left in-place would not be necessarily classified by DTSC as a “waste.” The DTSC has provided site-specific determinations that “movement of wastes within an area of contamination does not constitute "land disposal" and, thus, does not trigger hazardous waste disposal requirements.” Therefore, lead-impacted soil that is scarified in-place, moisture-conditioned, and recompacted during roadway improvement activities might not be considered a “waste.” DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of lead-impacted soil.

2.3 Naturally Occurring Asbestos

The California Air Resources Board (CARB) has mitigation practices for construction, grading, quarrying and surface mining operations that may disturb natural occurrences of asbestos as outlined in Title 17 California Code of Regulations (CCR), Section 93105. NOA potentially possesses a health hazard when it becomes an airborne particulate. Mitigation practices can reduce the risk of exposure to asbestos-containing dust. The primary mitigation practice used for controlling exposure to potentially asbestos-containing dust is the implementation of engineering controls including wetting the materials being disturbed. If engineering controls do not adequately control exposure to potentially asbestos-containing dust, the use of personal protective equipment including wearing air purifying respirators with High Efficiency Particulate Air (HEPA) filters is required during construction activities. Dust control methods similar to those in Title 17 CCR, Section 93105 are outlined in Title 17 CCR, Section 93106 for airborne asbestos in road surfacing applications. Using surfacing material with 0.25% or

more asbestos material is not permitted and wetting of the material or the application of a surface sealant is recommended to minimize disturbance of the asbestos material. Onsite reuse or disposal of NOA-containing materials is allowed by 17 CCR 93106 and 17 CCR 93105 if it is buried under at least 3 inches of material that contains less than 0.25% NOA.

3.0 SCOPE OF SERVICES

The scope of services requested by Caltrans in TO No. 149 included the collection of soil samples for analysis to determine lead and asbestos content, collection of traffic stripe paint for lead analysis, and the preparation of this report.

3.1 Pre-field Activities

- Retained the services of Advanced Technologies Laboratories (ATL), a Caltrans-approved and California-certified analytical laboratory, to perform the chemical analyses of soil and paint samples.
- Retained the services of EMSL Inc., a Caltrans-approved analytical laboratory, to perform the asbestos analyses of soil samples.
- Reviewed documents pertaining to the geologic setting of the site vicinity.

3.2 Field Activities

On November 29, 2010, we advanced 20 direct-push borings (WB1 through WB10 and EB11 through EB20) to an approximate sampling depth of 5.0 feet along the WB and EB shoulders of SR-20. Soil samples were collected at depth intervals of 0.0 to 0.5 foot, 0.5 to 1.5 feet, 1.5 to 2.5 feet, 2.5 to 4.0 feet and 4.0 to 5.0 feet. Three direct-push borings (SS21 through SS23) were advanced to an approximate maximum sampling depth of 8.5 feet at the erosion repair area on the EB shoulder of SR-20. Seven surface soil samples (SS24 through SS30) were also collected in the erosion repair area, from the slope below the EB shoulder of SR-20 (north bank of Salt Creek). Soil samples were collected from borings SS21 through SS23 at depth intervals of 0.5 to 1.5 feet, 1.5 to 2.5 feet, 2.5 to 3.5 feet, 3.5 to 4.5 feet, 4.5 to 5.5 feet, 5.5 to 6.5 feet and 6.5 to 7.5 feet. Near-surface soil samples SS24 through SS30 were collected from the embankment slope approximately 1.0 foot, 1.5 feet, 3.0 feet, 4.0 feet and/or 5.0 feet below highway shoulder surface level. Following sample collection, the borings were backfilled with the excess soil cuttings. Details of the field activities are presented in the following sections.

The sample locations were selected in the field by the Geocon Field Supervisor and Caltrans Quality Assurance Manager.

We also collected one yellow traffic stripe paint sample (PC1) at the Caltrans-designated sampling location.

4.0 INVESTIGATIVE METHODS

4.1 ADL Soil Sampling Procedures

A total of 125 soil samples were collected from 23 borings and seven surface locations excavated at the Site. Soil samples obtained from the borings were collected in cellulose thermoplastic (acetate) liners driven by the direct-push rig. The acetate liners were cut to separate the sample by depth, then the sample from a particular interval was opened and the soil sample was transferred to a Ziploc[®] re-sealable plastic bag. Soil samples collected at surface locations were transferred directly into Ziploc[®] re-sealable plastic bags using a Nitrile-gloved hand. The soil samples were field-homogenized within the sample bags and subsequently labeled, placed in an ice chest, and delivered to ATL for analytical testing under chain-of-custody (COC) documentation.

The locations of the borings except the erosion repair area borings were determined using a differential global positioning system (GPS) capable of providing a horizontal position with an error of no more than 3.3 feet. The latitude and longitude of the borings are presented in Table 1. The approximate soil boring locations are depicted on Figure 2.

4.2 Paint Sampling Procedures

The traffic stripe paint sample was collected using a hammer to break a chip off the traffic stripe paint. The paint sample was placed in a Ziploc[®] re-sealable plastic bag, subsequently labeled, and delivered to ATL under standard COC documentation.

4.3 NOA Investigation

Prior to the field sampling activities, we reviewed the following documents pertaining to the geologic setting of the Site:

- *2010 Geologic Map of California*, California Geological Survey, Geologic Data Map No. 2, accessed via the world-wide web at <http://www.quake.ca.gov/gmaps/GMC/stategeologicmap.html>, November 2010.
- Geologic Map of California, Ukiah Sheet, California Department of Natural Resources, Division of Mines, 1960.

During the field investigation, we conducted a reconnaissance assessment of the exposed soil and rock types present within the project area. Nine soil samples (EB17-1.5, EB18-1.5, EB19-0.5, EB20-0.5, SS21-1.5, SS22-0.5, SS23-0.5, SS24-1.0 and SS25-3.0) collected from the EB shoulder of SR-20 and the erosion repair area were split and the second sample was placed in a labeled Ziploc[®] re-sealable plastic bag and delivered to EMSL for asbestos analysis under COC protocol.

4.4 Traffic Control

Traffic control during the fieldwork was provided by a Caltrans traffic control crew with signage, cones, and flagmen, as well as the Caltrans QA Manager's vehicle and flashing lights.

4.5 Quality Assurance/Quality Control Procedures

QA/QC procedures were performed during the field exploration activities. These procedures included the decontamination of sampling equipment before each sample was collected and providing COC documentation for each sample submitted to the laboratories. The soil sampling equipment was cleansed between each boring by washing the equipment with an Alconox[®] solution followed by a double rinse with deionized water. The decontamination water was discharged to the ground surface within the Caltrans right-of-way, away from the roadway and storm drain inlets.

4.6 Laboratory Analyses

Prior to submitting the samples to the laboratories, the COC documentation was reviewed for accuracy and completeness. Copies of the laboratory reports and COC documentation are presented in Appendix A.

4.6.1 ADL and Paint Samples

Eighty-six soil samples and one yellow traffic stripe paint sample collected from the Site were submitted to ATL for total lead analysis following United States Environmental Protection Agency (EPA) Test Method 6010B. Per Caltrans' request, soil samples collected from depth intervals of 2.5 to 4.0 feet and 4.0 to 5.0 feet from borings WB1 through WB10 and EB11 through EB20 were held by the laboratory.

4.6.2 NOA Samples

Nine soil samples collected from roadway fill material and the erosion repair area were submitted to EMSL for asbestos fiber analysis under six- to ten-day turn-around-time. EMSL analyzed the samples for asbestos using polarized light microscopy (PLM) by CARB Method 435 (CARB 435). The CARB 435 preparation includes milling the sample to a -200 mesh size which also homogenizes the sample. The analytical sensitivity of the PLM analysis was 0.25% by area.

4.6.3 Laboratory QA/QC Procedures

QA/QC procedures were performed by ATL as applicable for each method of analysis with specificity for each analyte listed in the test method's QA/QC. QA/QC measures for the various metals analyses included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.

- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever was more frequent, with the spike made at ten times the detection limit or at the analyte level.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Geologic Map Review

The project area is located within upper Cretaceous marine sedimentary rocks (sandstone, shale, and conglomerate) of the Great Valley sequence. These rocks and associated alluvium and colluvium are unlikely to contain NOA. The closest mapped geologic materials that potentially contain NOA are ultramafic rocks located approximately six miles west of the Site. The drainage that runs next to the Site – Salt Creek – does not have contact with the mapped areas of ultramafic rocks, so alluvium transported to the site vicinity by Salt Creek is unlikely to be a source of NOA-bearing rocks. The ultramafic rocks mapped west of the Site are in a different watershed (Bear Creek, which drains south to Cache Creek).

5.2 Field Observations

The soils encountered during the advancement of borings were generally composed of fill and weathered bedrock materials. Fill consisted of brown silty sand with gravel. Gravel within the fill material was noted to consist primarily of volcanic and meta-sedimentary rock. Clasts of serpentine were observed as a minor component (less than 10%) of fill in the upper 2 feet of boring EB18, in the gabions immediately west of the erosion repair area, and as apparent surface “float” on the slope of the erosion repair area. Weathered bedrock at the Site is sandstone and shale of the Great Valley sequence.

5.3 ADL Soil Analytical Results

Total lead was detected in 82 of the 86 soil samples analyzed at concentrations ranging from 5.1 to 98 mg/kg. Six of the 86 soil samples had total lead concentrations greater than 50 mg/kg (ten times the STLC value for lead of 5.0 mg/l).

WET soluble lead was detected in each of the six soil samples analyzed at concentrations ranging from 0.38 to 2.7 mg/l, less than the STLC value for lead of 5.0 mg/l.

A summary of the ADL soil sample analytical results are presented in Table 1.

5.4 Paint Sample Analytical Results

Total lead was reported for yellow traffic stripe paint sample PC1 at 400 mg/kg. WET soluble lead was reported for PC1 at 2.0 mg/l, less than the STLC value for lead of 5.0 mg/l.

The analytical results of the paint sample are summarized on Table 2.

5.5 NOA Results

Nine soil samples were analyzed by EMSL for asbestos by the PLM method using the CARB 435 sample preparation method. Two of the nine samples analyzed were reported to contain less than 0.25% chrysotile asbestos. The seven remaining samples were reported as none detected for asbestos. The analytical laboratory reported each of the samples as 100% non-fibrous.

A summary of the NOA analytical results are presented in Table 3.

5.6 Laboratory Quality Assurance/Quality Control (QA/QC)

The ATL laboratory QA/QC reports show acceptable surrogate recoveries and non-detect results for the method blanks. The ATL Case Narrative stated that RPD for duplicate (DUP) is outside criteria for several samples; however, the laboratory control sample (LCS) validated the analytical batch. The report showed acceptable recoveries and relative percent differences for the matrix spikes and matrix spike duplicates. Based on this limited data review, no additional qualifications of the ATL data are necessary, and the data are of sufficient quality for the purposes of this report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 ADL Soil Waste Classification/Disposal

Soil materials excavated to a maximum sampling depth of 2.5 feet along the WB and EB shoulders of SR-20 near PM 10.7 and soil excavated to a maximum depth of 8.5 feet within the erosion repair area will not require special soil handling and disposal procedures based on lead content and can be reused or disposed of as non-hazardous soil since the reported total lead concentrations are less than 50 mg/kg or the WET soluble lead concentrations are less than the STLC value for lead of 5.0 mg/l.

6.1.1 Lead Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific Lead Compliance Plan (CCR Title 8, Section 1532.1, the "Lead in Construction" standard) to minimize worker exposure to lead-containing soil at the PM 10.7 project area. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of lead-containing soil.

6.2 Traffic Stripe Paint Waste Classification/Disposal

The yellow traffic stripe paint was sampled per Caltrans' request since it may be removed from the underlying asphalt concrete by grinding or sand blasting, which would create a paint waste stream. The analytical result of the traffic stripe paint will be used by Caltrans to provide contractors with preliminary analytical data of the traffic stripe paint.

Yellow traffic stripe paint sample PC1 had a total lead concentration less than the TTLC value for lead of 1,000 mg/l and a WET soluble lead concentration less than the STLC value for lead of 5.0 mg/l. Thus, the yellow traffic stripe paint represented by sample PC1 will not require disposal as a California hazardous waste.

6.3 Naturally Occurring Asbestos

Geologic conditions observed at the Site are consistent with the mapped geology of the area, consisting of sandstone and shale bedrock overlain by colluvium and alluvium of similar composition. Serpentine was observed, however, as a component of fill material in part of the project area. Specifically, serpentine was observed on the south side of SR-20 (EB shoulder) in the erosion repair area and in shallow fill material in boring EB18, east of the erosion repair area.

NOA is a State of California regulated substance, and may be present in serpentine. However, NOA was only detected (below the CARB regulatory limit of 0.25%) in two of the nine samples analyzed. Since serpentine was observed at the Site but NOA was not reported at an average level exceeding the CARB regulatory limit of 0.25%, material removed from the Site that is provided to another party

requires asbestos content notification. Material excavated on the Site may be reused onsite or in the Caltrans right-of-way without restriction (including surface applications) as it contains less than 0.25% asbestos.

Based on the presence of serpentine and the potential for NOA within the project area, Caltrans requires that the contractor(s) prepare and implement an Asbestos Dust Mitigation Plan (ADMP) that describes measures that will be taken to control the potential release of asbestos-containing dust from the Site as a result of onsite construction excavation activities. Asbestos dust control activities to be implemented shall be in compliance with the following:

- CCR Section 93105 – Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations (ATCM 93105);
- CCR Section 93106 – Asbestos Airborne Toxic Control Measure for Surfacing Applications (ATCM 93106); and
- Colusa County Air Pollution Control District guidelines.

6.3.1 Asbestos Worker Protection

Caltrans requires that the contractor(s) prepare a project-specific Asbestos Compliance Plan (CCR Title 8, Section 1529, the “Asbestos in Construction” standard) to minimize potential worker exposure to asbestos-containing materials at the project area. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of asbestos-containing soil.

Construction/maintenance activities involving potentially asbestos-containing materials may fall under regulatory jurisdiction of the California Division of the Occupational Safety and Health Administration (Cal-OSHA) under CCR Title 8 Section 5208. Mitigation measures during construction/maintenance activities should be utilized to minimize potential releases of NOA to air (dust control) and surface waters (stormwater discharge).

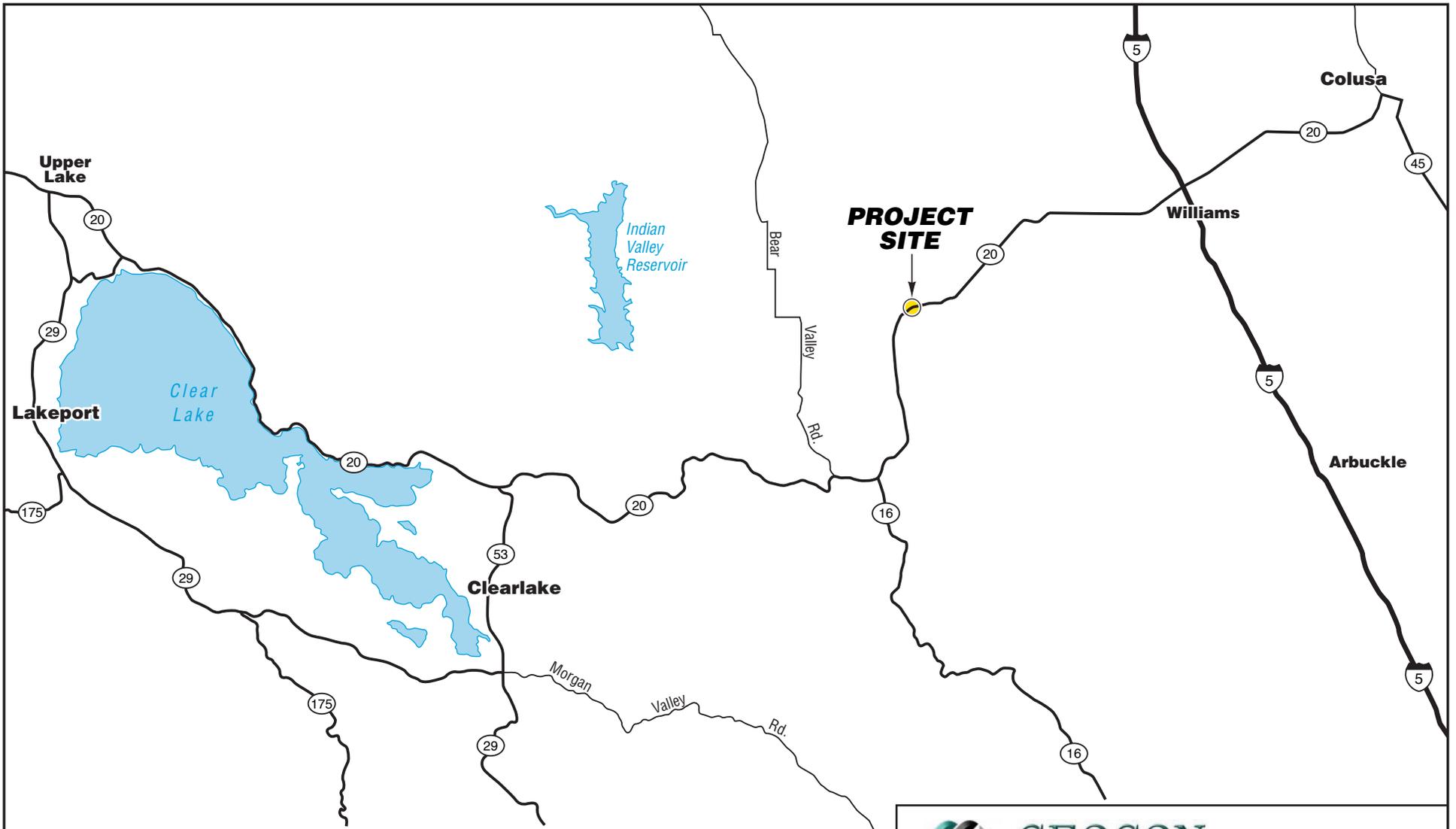
Currently, regulatory exposure limits and health hazard data are not available for NOA in soils. Federal regulations governing asbestos define it as the asbestiform variety of the amphibole minerals actinolite, amosite, anthophyllite, crocidolite, and tremolite, and the asbestiform variety of serpentine, chrysotile. Asbestos fibers occurring in industrial materials are considered by the National Institute for Occupational Safety and Health as potential occupational carcinogens. Prudence is recommended, therefore, in dealing with soils potentially containing NOA. Engineering controls, such as wet methods for dust suppression, should be utilized to minimize aerial dispersion of NOA fibers in planned work areas during excavation and construction activities. Under Title 8 Section 5208 of the CCR, disturbance of asbestos-containing materials requires wet working methods and possible respiratory

protection and air monitoring. The CARB has established protocols outlined in Title 17, Section 93105 for the implementation of worker health, safety and monitoring plans for excavation, grading and transport of NOA-containing soils. The excavation contractor should consult Title 17, Section 93105 and contact Cal-OSHA to establish the appropriate regulatory protocol and actions necessary for excavation and/or disturbance of asbestos-containing soils.

7.0 REPORT LIMITATIONS

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. We 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.



GEOCON
CONSULTANTS, INC.

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

State Route 20 PM 10.7

Colusa County,
California

VICINITY MAP

GEOCON Proj. No. S9300-06-149

Task Order No. 149

January 2011

Figure 1



LEGEND:

- WB1** ⊗ Approximate Boring Location
- PC1** ▲ Approximate Paint Chip Sample Location
- ⬡ Samples SS24 – SS30 Collected from the Erosion Repair Area



 **GEOCON**
CONSULTANTS, INC.
3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

State Route 20 PM 10.7		
Colusa County, California		SITE PLAN
GEOCON Proj. No. S9300-06-149		
Task Order No. 149	January 2011	Figure 2

TABLE 1
 SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
 EA 03-0F0500
 STATE ROUTE 20 POST MILE 10.7
 COLUSA COUNTY, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)
STATE ROUTE 20 WESTBOUND					
WB1-0.0	11/29/2010	39.103981011	-122.329113308	8.9	---
WB1-0.5	11/29/2010			30	---
WB1-1.5	11/29/2010			12	---
WB2-0.0	11/29/2010	39.103957681	-122.329239624	12	---
WB2-0.5	11/29/2010			47	---
WB2-1.5	11/29/2010			8.2	---
WB3-0.0	11/29/2010	39.103944290	-122.329378001	14	---
WB3-0.5	11/29/2010			37	---
WB3-1.5	11/29/2010			18	---
WB4-0.0	11/29/2010	39.103911270	-122.329431811	6.6	---
WB4-0.5	11/29/2010			35	---
WB4-1.5	11/29/2010			7.6	---
WB5-0.0	11/29/2010	39.103927116	-122.329502458	11	---
WB5-0.5	11/29/2010			32	---
WB5-1.5	11/29/2010			13	---
WB6-0.0	11/29/2010	39.103882382	-122.329630770	15	---
WB6-0.5	11/29/2010			61	2.4
WB6-1.5	11/29/2010			8.5	---
WB7-0.0	11/29/2010	39.103874137	-122.329734256	7.1	---
WB7-0.5	11/29/2010			98	2.1
WB7-1.5	11/29/2010			37	---
WB8-0.0	11/29/2010	39.103869970	-122.329820517	12	---
WB8-0.5	11/29/2010			28	---
WB8-1.5	11/29/2010			36	---
WB9-0.0	11/29/2010	39.103861627	-122.329936308	11	---
WB9-0.5	11/29/2010			50	2.7
WB9-1.5	11/29/2010			40	---
WB10-0.0	11/29/2010	39.103804834	-122.330181347	13	---
WB10-0.5	11/29/2010			79	2.5
WB10-1.5	11/29/2010			63	1.6

TABLE I
 SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
 EA 03-0F0500
 STATE ROUTE 20 POST MILE 10.7
 COLUSA COUNTY, CALIFORNIA

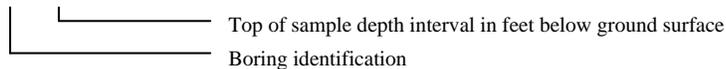
BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)
STATE ROUTE 20 EASTBOUND					
EB11-0.0	11/29/2010	39.103654751	-122.330395043	7.4	---
EB11-0.5	11/29/2010			7.8	---
EB11-1.5	11/29/2010			12	---
EB12-0.0	11/29/2010	39.103647271	-122.330366358	7.9	---
EB12-0.5	11/29/2010			22	---
EB12-1.5	11/29/2010			9.2	---
EB13-0.0	11/29/2010	39.103683115	-122.330247094	10	---
EB13-0.5	11/29/2010			<5.0	---
EB13-1.5	11/29/2010			<5.0	---
EB14-0.0	11/29/2010	39.103701203	-122.330175383	6.9	---
EB14-0.5	11/29/2010			5.1	---
EB14-1.5	11/29/2010			<5.0	---
EB15-0.0	11/29/2010	39.103699014	-122.330133864	16	---
EB15-0.5	11/29/2010			5.8	---
EB15-1.5	11/29/2010			5.3	---
EB16-0.0	11/29/2010	39.103716916	-122.330053248	13	---
EB16-0.5	11/29/2010			5.2	---
EB16-1.5	11/29/2010			19	---
EB17-0.0	11/29/2010	39.103718663	-122.329854861	6.8	---
EB17-0.5	11/29/2010			26	---
EB17-1.5	11/29/2010			6.9	---
EB18-0.0	11/29/2010	39.103783012	-122.329782895	7.6	---
EB18-0.5	11/29/2010			40	---
EB18-1.5	11/29/2010			6.5	---
EB19-0.0	11/29/2010	39.103738462	-122.329661493	12	---
EB19-0.5	11/29/2010			29	---
EB19-1.5	11/29/2010			6.9	---
EB20-0.0	11/29/2010	39.103824839	-122.329539521	23	---
EB20-0.5	11/29/2010			33	---
EB20-1.5	11/29/2010			<5.0	---
STATE ROUTE 20 - EROSION REPAIR AREA					
SS21-0.5	11/29/2010	NA	NA	19	---
SS21-1.5	11/29/2010			11	---
SS21-2.5	11/29/2010			6.2	---
SS21-3.5	11/29/2010			5.3	---
SS21-4.5	11/29/2010			6.4	---
SS21-5.5	11/29/2010			5.2	---

TABLE I
 SUMMARY OF SOIL BORING COORDINATES AND LEAD ANALYTICAL RESULTS
 EA 03-0F0500
 STATE ROUTE 20 POST MILE 10.7
 COLUSA COUNTY, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)
STATE ROUTE 20 - EROSION REPAIR AREA					
SS22-0.5	11/29/2010	NA	NA	12	---
SS22-1.5	11/29/2010			6.4	---
SS22-2.5	11/29/2010			5.4	---
SS22-3.5	11/29/2010			7.0	---
SS22-4.5	11/29/2010			6.7	---
SS22-5.5	11/29/2010			6.1	---
SS22-6.5	11/29/2010			6.7	---
SS23-0.5	11/29/2010	NA	NA	7.0	---
SS23-1.5	11/29/2010			8.1	---
SS23-2.5	11/29/2010			7.8	---
SS23-4.5	11/29/2010			5.2	---
SS23-5.5	11/29/2010			5.1	---
SS23-6.5	11/29/2010			6.7	---
SS24-1.0	11/29/2010	NA	NA	16	---
SS25-3.0	11/29/2010	NA	NA	20	---
SS26-5.0	11/29/2010	NA	NA	14	---
SS27-1.0	11/29/2010	NA	NA	67	0.38
SS28-3.0	11/29/2010	NA	NA	8.9	---
SS29-1.5	11/29/2010	NA	NA	19	---
SS30-4.0	11/29/2010	NA	NA	7.0	---

Notes:

WB1-0.0



WET = Waste Extraction Test by EPA Test Method 7420

mg/kg = Milligrams per kilogram

mg/l = Milligrams per liter

< = Less than the laboratory reporting limit

--- = Not analyzed

NA = GPS data not available

TABLE 2
SUMMARY OF TRAFFIC PAINT SAMPLE ANALYTICAL RESULTS
EA 03-0F0500
STATE ROUTE 20 POST MILE 10.7
COLUSA COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DATE	PAINT COLOR	TOTAL LEAD (mg/kg)	WET LEAD (mg/l)
PC1	11/29/2010	Yellow	400	2.0

Notes:

WET = Waste Extraction Test by EPA Test Method 7420

mg/kg = Milligrams per kilogram

mg/l = Milligrams per liter

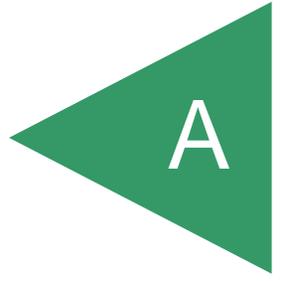
TABLE 3
SUMMARY OF NOA ANALYTICAL RESULTS
EA 03-0F0500
STATE ROUTE 20 POST MILE 10.7
COLUSA COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
EB17-1.5-NOA	11/29/2010	PLM	ND	None Reported
EB18-1.5-NOA	11/29/2010	PLM	<0.25	Chrysotile
EB19-0.5-NOA	11/29/2010	PLM	ND	None Reported
EB20-0.5-NOA	11/29/2010	PLM	ND	None Reported
SS21-1.5-NOA	11/29/2010	PLM	ND	None Reported
SS22-0.5-NOA	11/29/2010	PLM	ND	None Reported
SS23-0.5-NOA	11/29/2010	PLM	<0.25	Chrysotile
SS24-1.0-NOA	11/29/2010	PLM	ND	None Reported
SS25-3.0-NOA	11/29/2010	PLM	ND	None Reported

Notes: PLM = Polarized Light Microscopy
NOA = Naturally occurring asbestos
ND = Not detected
< = Less than the laboratory reporting limit

APPENDIX

A



December 08, 2010



Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196

Workorder No.: 114959

RE: Colusa 20 ADL, S9300-06-149

Attention: Rebecca Silva

Enclosed are the results for sample(s) received on December 01, 2010 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: Colusa 20 ADL, S9300-06-149
Lab Order: 114959

CASE NARRATIVE

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 114959-016ADUP, 114959-032ADUP, 114959-065ADUP, 114959-097ADUP, 114959-100ADUP, 114959-110ADUP and 114959-120ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	114959
Project:	Colusa 20 ADL, S9300-06-149	Date Received	12/1/2010 8:34:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
114959-001A	WB1-0.0	8.9	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-002A	WB1-0.5	30	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-003A	WB1-1.5	12	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-006A	WB2-0.0	12	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-007A	WB2-0.5	47	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-008A	WB2-1.5	8.2	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-011A	WB3-0.0	14	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-012A	WB3-0.5	37	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-013A	WB3-1.5	18	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-016A	WB4-0.0	6.6	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-017A	WB4-0.5	35	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-018A	WB4-1.5	7.6	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-021A	WB5-0.0	11	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-022A	WB5-0.5	32	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-023A	WB5-1.5	13	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-026A	WB6-0.0	15	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-027A	WB6-0.5	61	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-028A	WB6-1.5	8.5	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010

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	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	114959
Project:	Colusa 20 ADL, S9300-06-149	Date Received	12/1/2010 8:34:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
114959-031A	WB7-0.0	7.1	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-032A	WB7-0.5	98	mg/Kg	68570	5.0	1	11/29/2010	12/6/2010
114959-033A	WB7-1.5	37	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-035A	WB8-0.0	12	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-036A	WB8-0.5	28	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-037A	WB8-1.5	36	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-040A	WB9-0.0	11	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-041A	WB9-0.5	50	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-042A	WB9-1.5	40	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-045A	WB10-0.0	13	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-046A	WB10-0.5	79	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-047A	WB10-1.5	63	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-050A	EB11-0.0	7.4	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-051A	EB11-0.5	7.8	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-052A	EB11-1.5	12	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-055A	EB12-0.0	7.9	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-056A	EB12-0.5	22	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-057A	EB12-1.5	9.2	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010

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	



**LEAD BY ICP
EPA 6010B**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	114959
Project:	Colusa 20 ADL, S9300-06-149	Date Received	12/1/2010 8:34:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
114959-060A	EB13-0.0	10	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-061A	EB13-0.5	ND	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-062A	EB13-1.5	ND	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-065A	EB14-0.0	6.9	mg/Kg	68571	5.0	1	11/29/2010	12/6/2010
114959-066A	EB14-0.5	5.1	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-067A	EB14-1.5	ND	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-070A	EB15-0.0	16	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-071A	EB15-0.5	5.8	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-072A	EB15-1.5	5.3	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-075A	EB16-0.0	13	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-076A	EB16-0.5	5.2	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-077A	EB16-1.5	19	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-080A	EB17-0.0	6.8	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-081A	EB17-0.5	26	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-082A	EB17-1.5	6.9	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-085A	EB18-0.0	7.6	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-086A	EB18-0.5	40	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-087A	EB18-1.5	6.5	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010

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	



ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	114959
Project:	Colusa 20 ADL, S9300-06-149	Date Received	12/1/2010 8:34:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
114959-090A	EB19-0.0	12	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-091A	EB19-0.5	29	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-092A	EB19-1.5	6.9	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-095A	EB20-0.0	23	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-096A	EB20-0.5	33	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-097A	EB20-1.5	ND	mg/Kg	68572	5.0	1	11/29/2010	12/6/2010
114959-101A	SS21-0.5	19	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-102A	SS21-1.5	11	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-103A	SS21-2.5	6.2	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-104A	SS21-3.5	5.3	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-105A	SS21-4.5	6.4	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-106A	SS21-5.5	5.2	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-107A	SS22-0.5	12	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-108A	SS22-1.5	6.4	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-109A	SS22-2.5	5.4	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-110A	SS22-3.5	7.0	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-111A	SS22-4.5	6.7	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-112A	SS22-5.5	6.1	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010

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	



ANALYTICAL RESULTS

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Consultants, Inc.	Lab Order:	114959
Project:	Colusa 20 ADL, S9300-06-149	Date Received	12/1/2010 8:34:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
114959-113A	SS22-6.5	6.7	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-114A	SS23-0.5	7.0	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-115A	SS23-1.5	8.1	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-116A	SS23-2.5	7.8	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-117A	SS23-4.5	5.2	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-118A	SS23-5.5	5.1	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-119A	SS23-6.5	6.7	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-120A	SS24-1.0	16	mg/Kg	68573	5.0	1	11/29/2010	12/6/2010
114959-121A	SS25-3.0	20	mg/Kg	68574	5.0	1	11/29/2010	12/6/2010
114959-122A	SS26-5.0	14	mg/Kg	68574	5.0	1	11/29/2010	12/6/2010
114959-123A	SS27-1.0	67	mg/Kg	68574	5.0	1	11/29/2010	12/6/2010
114959-124A	SS28-3.0	8.9	mg/Kg	68574	5.0	1	11/29/2010	12/6/2010
114959-125A	SS29-1.5	19	mg/Kg	68574	5.0	1	11/29/2010	12/6/2010
114959-126A	SS30-4.0	7.0	mg/Kg	68574	5.0	1	11/29/2010	12/6/2010

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

ANALYTICAL RESULTS
 Print Date: 08-Dec-10

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	PC1
Lab Order:	114959	Collection Date:	11/29/2010
Project:	Colusa 20 ADL, S9300-06-149	Matrix:	PAINT
Lab ID:	114959-100A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B		EPA 6010B			
RunID: ICP10_101207D	QC Batch: 68688			PrepDate: 12/7/2010		Analyst: SRB
Lead	400	2.0		mg/Kg	1	12/7/2010 05:02 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		



CLIENT: Geocon Consultants, Inc.
Work Order: 114959
Project: Colusa 20 ADL, S9300-06-149

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: MB-68688	SampType: MBLK	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/7/2010	RunNo: 127483						
Client ID: PBS	Batch ID: 68688	TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/7/2010	SeqNo: 2059382						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.0

Sample ID: LCS-68688	SampType: LCS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/7/2010	RunNo: 127483						
Client ID: LCSS	Batch ID: 68688	TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/7/2010	SeqNo: 2059383						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 48.905 1.0 50.00 0 97.8 80 120

Sample ID: 114959-100A-DUP	SampType: DUP	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/7/2010	RunNo: 127483						
Client ID: PC1	Batch ID: 68688	TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/7/2010	SeqNo: 2059385						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 525.996 2.0 399.8 27.3 20 R

Sample ID: 115041-001A-MS	SampType: MS	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/7/2010	RunNo: 127483						
Client ID: ZZZZZ	Batch ID: 68688	TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/7/2010	SeqNo: 2059387						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

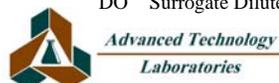
Lead 112.083 1.0 125.0 11.26 80.7 34 126

Sample ID: 115041-001A-MSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 12/7/2010	RunNo: 127483						
Client ID: ZZZZZ	Batch ID: 68688	TestNo: EPA 6010B EPA 3050B		Analysis Date: 12/7/2010	SeqNo: 2059388						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 117.599 1.0 125.0 11.26 85.1 34 126 112.1 4.80 20

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: 114959
Project: Colusa 20 ADL, S9300-06-149

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-68570A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127438						
Client ID: PBS	Batch ID: 68570	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057816						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.449	5.0									

Sample ID: LCS-68570	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127438						
Client ID: LCSS	Batch ID: 68570	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057817						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	268.254	5.0	250.0	0.4494	107	80	120				

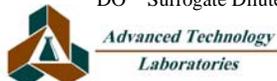
Sample ID: 114959-016A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127438						
Client ID: WB4-0.0	Batch ID: 68570	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057828						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.334	5.0						6.643	21.8	20	R

Sample ID: 114959-016A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127438						
Client ID: WB4-0.0	Batch ID: 68570	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057829						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	227.599	5.0	250.0	6.643	88.4	34	126				

Sample ID: MB-68570B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127438						
Client ID: PBS	Batch ID: 68570	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057830						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

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: 114959
Project: Colusa 20 ADL, S9300-06-149

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

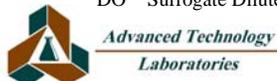
Sample ID: 114959-032A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127438						
Client ID: WB7-0.5	Batch ID: 68570	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057841						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	67.883	5.0						97.54	35.9	20	R

Sample ID: 114959-032A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127438						
Client ID: WB7-0.5	Batch ID: 68570	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057842						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	260.156	5.0	250.0	97.54	65.0	34	126				

Sample ID: 114959-032A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127438						
Client ID: WB7-0.5	Batch ID: 68570	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057843						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	268.209	5.0	250.0	97.54	68.3	34	126	260.2	3.05	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 | |



CLIENT: Geocon Consultants, Inc.
Work Order: 114959
Project: Colusa 20 ADL, S9300-06-149

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

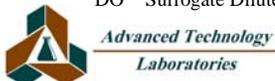
Sample ID: 114959-065A-DUP		SampType: DUP		TestCode: 6010_SPB		Units: mg/Kg		Prep Date: 12/2/2010		RunNo: 127441	
Client ID: EB14-0.0		Batch ID: 68571		TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/6/2010		SeqNo: 2057898			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.526	5.0						6.875	32.3	20	R

Sample ID: 114959-065A-MS		SampType: MS		TestCode: 6010_SPB		Units: mg/Kg		Prep Date: 12/2/2010		RunNo: 127441	
Client ID: EB14-0.0		Batch ID: 68571		TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/6/2010		SeqNo: 2057899			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	235.902	5.0	250.0	6.875	91.6	34	126				

Sample ID: 114959-065A-MSD		SampType: MSD		TestCode: 6010_SPB		Units: mg/Kg		Prep Date: 12/2/2010		RunNo: 127441	
Client ID: EB14-0.0		Batch ID: 68571		TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/6/2010		SeqNo: 2057900			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	197.402	5.0	250.0	6.875	76.2	34	126	235.9	17.8	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 | |



CLIENT: Geocon Consultants, Inc.
Work Order: 114959
Project: Colusa 20 ADL, S9300-06-149

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

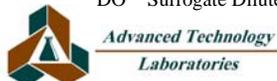
Sample ID: 114959-097A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127442						
Client ID: EB20-1.5	Batch ID: 68572	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057926						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.821	5.0						4.952	81.9	20	R

Sample ID: 114959-097A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127442						
Client ID: EB20-1.5	Batch ID: 68572	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057927						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	176.716	5.0	250.0	4.952	68.7	34	126				

Sample ID: 114959-097A-MSD	SampType: MSD	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127442						
Client ID: EB20-1.5	Batch ID: 68572	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057928						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	185.612	5.0	250.0	4.952	72.3	34	126	176.7	4.91	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 | |



CLIENT: Geocon Consultants, Inc.
Work Order: 114959
Project: Colusa 20 ADL, S9300-06-149

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-68573A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127443						
Client ID: PBS	Batch ID: 68573	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057929						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 5.0

Sample ID: LCS-68573	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127443						
Client ID: LCSS	Batch ID: 68573	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057930						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 259.398 5.0 250.0 0 104 80 120

Sample ID: 114959-110A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127443						
Client ID: SS22-3.5	Batch ID: 68573	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057941						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 5.069 5.0 7.022 32.3 20 R

Sample ID: 114959-110A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127443						
Client ID: SS22-3.5	Batch ID: 68573	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057942						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

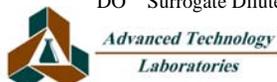
Lead 197.173 5.0 250.0 7.022 76.1 34 126

Sample ID: MB-68573B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 12/2/2010	RunNo: 127443						
Client ID: PBS	Batch ID: 68573	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 12/6/2010	SeqNo: 2057943						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 5.0

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: 114959
Project: Colusa 20 ADL, S9300-06-149

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

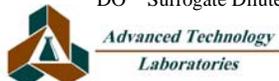
Sample ID: 114959-120A-DUP		SampType: DUP		TestCode: 6010_SPB		Units: mg/Kg		Prep Date: 12/2/2010		RunNo: 127443	
Client ID: SS24-1.0		Batch ID: 68573		TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/6/2010		SeqNo: 2057953			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	55.154	5.0						15.93	110	20	R

Sample ID: 114959-120A-MS		SampType: MS		TestCode: 6010_SPB		Units: mg/Kg		Prep Date: 12/2/2010		RunNo: 127443	
Client ID: SS24-1.0		Batch ID: 68573		TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/6/2010		SeqNo: 2057954			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	218.576	5.0	250.0	15.93	81.1	34	126				

Sample ID: 114959-120A-MSD		SampType: MSD		TestCode: 6010_SPB		Units: mg/Kg		Prep Date: 12/2/2010		RunNo: 127443	
Client ID: SS24-1.0		Batch ID: 68573		TestNo: EPA 6010B EPA 3050M		Analysis Date: 12/6/2010		SeqNo: 2057955			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	224.592	5.0	250.0	15.93	83.5	34	126	218.6	2.71	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 | |



3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

CHAIN OF CUSTODY RECORD

Pg. 2 of 13

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>	FOR LABORATORY USE ONLY			
	P.O. #: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	

Client: GEOCON Consultants, Inc Attention: Rebecca Silva	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
---	--	--

Project Name: Colusa 20 ADL	Project #: S9300-06-149	Sampler: (Printed Name) John Pfeiffer (Signature) <i>[Signature]</i>
Relinquished by: (Signature and Printed Name) <i>[Signature]</i> John Pfeiffer	Date: 11/29/10	Time: 1900
Received by: (Signature and Printed Name) <i>[Signature]</i> Geon Storage	Date: 11/29/10	Time: 1900
Relinquished by: (Signature and Printed Name) <i>[Signature]</i> Geon Storage / R. Silva	Date: 11/30/10	Time: 1100
Received by: (Signature and Printed Name) <i>[Signature]</i> OnTrac	Date: 11/30/10	Time: 1600
Relinquished by: (Signature and Printed Name) <i>[Signature]</i>	Date: 12/1/10	Time: 830

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <i>[Signature]</i> R. Silva 11/20/10 Print Name Date <i>[Signature]</i> Signature	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)
---	--	---	--

Sample/Records - Archival & Disposal
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.

Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description				SPECIFY APPROPRIATE MATRIX										PRESERVATION	REMARKS						
	Batch #	Lab No.	Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8200B (Volatiles)	8270C (BVA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	Total lead (6010B)	SOIL	WATER			GROUND WATER	WASTEWATER	CARBON	TAT #	Type	
	1149501	11	WB3-0.0	11/29/10	0958								X	X							5 day	1	baggie	
		12	WB3-0.5		0959								X											
		13	WB3-1.5		1000								X											
		14	WB3-2.5		1001								X											
		15	WB3-4.0		1002								X											
		16	WB4-0.0		1005								X											
		17	WB4-0.5		1006								X											
		18	WB4-1.5		1007								X											
		19	WB4-2.5		1008								X											
		20	WB4-4.0		1009								X											

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: A = Overnight ≤ 24 hrs	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
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY																																																																																																																																																																																																																																																																																														
		P.O. #: _____ Logged By: _____ Date: _____		Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>																																																																																																																																																																																																																																																																																										
Client: GEOCON Consultants, Inc Attention: Rebecca Silva			Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742			Tel: 916.852.9118 Fax: 916.852.9132																																																																																																																																																																																																																																																																																										
Project Name: Colusa 20 ADL		Project #: S9300-06-149		Sampler: (Printed Name) John Pfeiffer		(Signature) <i>John Pfeiffer</i>																																																																																																																																																																																																																																																																																										
Relinquished by: (Signature and Printed Name) <i>John Pfeiffer</i>		Date: 11/29/10		Time: 1900		Received by: (Signature and Printed Name) <i>Kevin Storage</i>																																																																																																																																																																																																																																																																																										
Relinquished by: (Signature and Printed Name) <i>Kevin Storage / RSilva</i>		Date: 11/30/10		Time: 1900		Received by: (Signature and Printed Name) <i>ENTAC</i>																																																																																																																																																																																																																																																																																										
Relinquished by: (Signature and Printed Name) <i>Mary Oly</i>		Date: 12/1/10		Time: 834		Received by: (Signature and Printed Name) _____																																																																																																																																																																																																																																																																																										
I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <i>RSilva</i> 11/30/10		Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)																																																																																																																																																																																																																																																																																										
Sample/Records - Archival & Disposal 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. Storage Fees (applies when storage is requested): ■ Sample :\$2.00 / sample /mo (after 45 days) ■ Records: \$1 /ATL workorder /mo (after 1 year)				Circle or Add Analysis(es) Requested 8081A (Pesticides) 8082 (PCB) 8280B (Volatiles) 8270C (BNA) 8010B (Total Metal) 8015B (GRO) / 8020 (BTEX) 8015B (DRO) 8021 (BTEX) TITLE 22 / CAM 17 (6010 / 7000) Total lead (6010B) HELP		SPECIFY APPROPRIATE MATRIX SOIL WATER GROUND WATER WASTEWATER CARBON																																																																																																																																																																																																																																																																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ITEM</th> <th colspan="2">LAB USE ONLY:</th> <th colspan="3">Sample Description</th> <th rowspan="2">8081A (Pesticides)</th> <th rowspan="2">8082 (PCB)</th> <th rowspan="2">8280B (Volatiles)</th> <th rowspan="2">8270C (BNA)</th> <th rowspan="2">8010B (Total Metal)</th> <th rowspan="2">8015B (GRO) / 8020 (BTEX)</th> <th rowspan="2">8015B (DRO)</th> <th rowspan="2">8021 (BTEX)</th> <th rowspan="2">TITLE 22 / CAM 17 (6010 / 7000)</th> <th rowspan="2">Total lead (6010B)</th> <th rowspan="2">SOIL</th> <th rowspan="2">WATER</th> <th rowspan="2">GROUND WATER</th> <th rowspan="2">WASTEWATER</th> <th rowspan="2">CARBON</th> <th colspan="2">Container(s)</th> <th rowspan="2">PRESERVATION</th> <th rowspan="2">REMARKS</th> </tr> <tr> <th>Batch #:</th> <th>Lab No.</th> <th>Sample ID / Location</th> <th>Date</th> <th>Time</th> <th>TAT #</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td></td> <td>114959-21</td> <td></td> <td>WB5-0.0</td> <td>11/29/10</td> <td>1015</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>baggie</td><td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>WB5-0.5</td> <td></td> <td>1016</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>WB5-1.5</td> <td></td> <td>1017</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>WB5-2.5</td> <td></td> <td>1018</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>WB5-4.0</td> <td></td> <td>1019</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>WB6-0.0</td> <td></td> <td>1032</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>WB6-0.5</td> <td></td> <td>1033</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>WB6-1.5</td> <td></td> <td>1034</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>WB6-2.5</td> <td></td> <td>1035</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>WB6-4.0</td> <td></td> <td>1036</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>				ITEM	LAB USE ONLY:		Sample Description			8081A (Pesticides)	8082 (PCB)	8280B (Volatiles)	8270C (BNA)	8010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Total lead (6010B)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	Container(s)		PRESERVATION	REMARKS	Batch #:	Lab No.	Sample ID / Location	Date	Time	TAT #	Type		114959-21		WB5-0.0	11/29/10	1015										X	X						1	baggie					WB5-0.5		1016										X													WB5-1.5		1017										X													WB5-2.5		1018										X													WB5-4.0		1019										X													WB6-0.0		1032										X													WB6-0.5		1033										X													WB6-1.5		1034										X													WB6-2.5		1035										X													WB6-4.0		1036										X										TAT: A = Overnight ≤ 24 hrs 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
ITEM	LAB USE ONLY:		Sample Description			8081A (Pesticides)	8082 (PCB)	8280B (Volatiles)	8270C (BNA)																8010B (Total Metal)	8015B (GRO) / 8020 (BTEX)			8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Total lead (6010B)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	Container(s)		PRESERVATION	REMARKS																																																																																																																																																																																																																																																							
	Batch #:	Lab No.	Sample ID / Location	Date	Time					TAT #	Type																																																																																																																																																																																																																																																																																					
	114959-21		WB5-0.0	11/29/10	1015										X	X						1	baggie																																																																																																																																																																																																																																																																									
			WB5-0.5		1016										X																																																																																																																																																																																																																																																																																	
			WB5-1.5		1017										X																																																																																																																																																																																																																																																																																	
			WB5-2.5		1018										X																																																																																																																																																																																																																																																																																	
			WB5-4.0		1019										X																																																																																																																																																																																																																																																																																	
			WB6-0.0		1032										X																																																																																																																																																																																																																																																																																	
			WB6-0.5		1033										X																																																																																																																																																																																																																																																																																	
			WB6-1.5		1034										X																																																																																																																																																																																																																																																																																	
			WB6-2.5		1035										X																																																																																																																																																																																																																																																																																	
			WB6-4.0		1036										X																																																																																																																																																																																																																																																																																	
■ TAT starts 8AM the following day if samples received after 3 PM				Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal																																																																																																																																																																																																																																																																																												

CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>	FOR LABORATORY USE ONLY			
	P.O. #: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	

Client: GEOCON Consultants, Inc Attention: Rebecca Silva	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
---	--	--

Project Name: Colusa 20 ADL	Project #: S9300-06-149	Sampler: (Printed Name) John Pfeiffer (Signature) <i>John Pfeiffer</i>
Relinquished by: (Signature and Printed Name) <i>John Pfeiffer</i>	Date: 11/29/10	Time: 1900
Received by: (Signature and Printed Name) <i>Georan Stange</i>	Date: 11/29/10	Time: 1900
Relinquished by: (Signature and Printed Name) <i>Georan Stange / R Silva</i>	Date: 11/30/10	Time: 1400
Received by: (Signature and Printed Name) <i>ATAC</i>	Date: 11/30/10	Time: 1400
Relinquished by: (Signature and Printed Name) <i>Mary</i>	Date: 12/1/10	Time: 834

I hereby authorize ATL to perform the work indicated below: Project Mgr/Submitter: <i>Rebecca Silva</i> Print Name: <i>Rebecca Silva</i> Signature: <i>Rebecca Silva</i> Date: 11/30/10	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)
---	---	--	---

Sample/Records - Archival & Disposal
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.

Storage Fees (applies when storage is requested):

- Sample: \$2.00 / sample /mo (after 45 days)
- Records: \$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				PRESERVATION	QA/QC
	SOIL	WATER	GROUND WATER	WASTEWATER		
8081A (Pesticides)					PRESERVATION RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB Logcode _____ OTHER _____ REMARKS _____	RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB Logcode _____ OTHER _____ REMARKS _____
8082 (PCB)						
8200B (Volatiles)						
8270C (BNA)						
8010B (Total Metal)						
8015B (GRO) / 8020 (BTEX)						
8015B (DRO)						
8021 (BTEX)						
TITLE 22 / CAM 17 (6010 / 7000)						
Total lead (6010B)						

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample ID / Location	Date	Time	
	114995-	31	WB7-0.0	11/29/10	1042	
		32	WB7-0.5		1043	
		33	WB7-1.5		1044	
		34	WB7-2.5		1045	
		35	WB8-0-0		1058	
		36	WB8-0.5		1059	
		37	WB8-1.5		1100	
		38	WB8-2.5		1101	
		39	WB8-4.0		1102	
		40	WB9-0-0		1107	

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: A = Overnight ≤ 24 hrs	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
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>	FOR LABORATORY USE ONLY			
	P.O. #: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	

Client: GEOCON Consultants, Inc	Address: 3160 Gold Valley Drive, Suite 800	Tel: 916.852.9118
Attention: Rebecca Silva	City: Rancho Cordova State: CA Zip Code: 95742	Fax: 916.852.9132

Project Name: Colusa 20 ADL	Project #: S9300-06-149	Sampler: (Printed Name) John Zeiffer	(Signature) <i>John Zeiffer</i>
Relinquished by: (Signature and Printed Name) <i>John Zeiffer</i>	Date: 11/29/10	Time: 1900	Received by: (Signature and Printed Name) <i>Beccan Storage</i>
Relinquished by: (Signature and Printed Name) <i>Beccan Storage</i>	Date: 11/30/10	Time: 1100	Received by: (Signature and Printed Name) <i>OnTrac</i>
Relinquished by: (Signature and Printed Name) <i>Mary</i>	Date: 12/1/10	Time: 834	Received by: (Signature and Printed Name) <i>Mary</i>

I hereby authorize ATL to perform the work indicated below: Project Mgr./Submitter: <i>Rebecca Silva</i>	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)
---	---	--	---

Sample/Records - Archival & Disposal					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.					Circle or Add Analysis(es) Requested										RTNE CT <input checked="" type="checkbox"/>	SWRCB Logcode										
Storage Fees (applies when storage is requested): ■ Sample: \$2.00 / sample /mo (after 45 days) ■ Records: \$1 /ATL workorder /mo (after 1 year)					Container(s)												OTHER _____									
ITEM	LAB USE ONLY:		Sample Description												TAT #	Type	REMARKS									
	Batch #:	Lab No.	Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)				Total lead (6010B)	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON			
	114959	51	EB11-0.5	11/29/10	1140									X	X							5-day	1	baggie		
		52	EB11-1.5		1141									X									X			
		53	EB11-2.5		1142									X									X			
		54	EB11-4.0		1143									X									X			
		55	EB12-0.0		1155									X									X			
		56	EB12-0.5		1157									X									X			
		57	EB12-1.5		1158									X									X			
		58	EB12-2.5		1159									X									X			
		59	EB12-4.0		1200									X									X			
		60	EB13-0.0		1208									X									X			

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: A = Overnight ≤ 24 hrs 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
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

CHAIN OF CUSTODY RECORD

Pg. 7 of 13

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>		FOR LABORATORY USE ONLY					
		P.O. #: _____		Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	
Client: GEOCON Consultants, Inc Attention: Rebecca Silva			Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742			Tel: 916.852.9118 Fax: 916.852.9132	
Project Name: Colusa 20 ADL		Project #: S9300-06-149		Sampler: (Printed Name) <i>John Pfeiffer</i>		(Signature) <i>John Pfeiffer</i>	
Relinquished by: (Signature and Printed Name) <i>John Pfeiffer</i>		Date: 11/29/10		Time: 1900		Received by: (Signature and Printed Name) <i>Beccan Stage</i>	
Relinquished by: (Signature and Printed Name) <i>Beccan Stage</i>		Date: 11/30/10		Time: 1600		Received by: (Signature and Printed Name) <i>NTAC</i>	
Relinquished by: (Signature and Printed Name) <i>Mary</i>		Date: 12/1/10		Time: 834		Received by: (Signature and Printed Name) <i>Mary</i>	
I hereby authorize ATL to perform the work indicated below: Project Mgr./Submitter: <i>R Silva</i>		Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)	
<p>Sample/Records - Archival & Disposal</p> <p>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.</p> <p>Storage Fees (applies when storage is requested):</p> <ul style="list-style-type: none"> Sample: \$2.00 / sample /mo (after 45 days) Records: \$1 /ATL workorder /mo (after 1 year) 				<p>Circle or Add Analysis(es) Requested</p> <p style="color: blue; font-size: 2em; text-align: center;">HOLD</p>		<p style="text-align: center;">SPECIFY APPROPRIATE MATRIX</p> <p>SOIL WATER GROUND WATER WASTEWATER CARBON</p>	
<p>LAB USE ONLY:</p> <p>Batch #: _____</p> <p>Lab No. _____</p>		<p>Sample Description</p> <p>Sample ID / Location _____ Date _____ Time _____</p>		<p>8081A (Pesticides) 8082 (PCB) 8200B (Volatiles) 8270C (BNA) 8010B (Total Metal) 8015B (GRO) / 8020 (BTEX) 8021 (BTEX) TITLE 22 / CAM 17 (6010 / 7000) Total lead (6010B)</p>		<p>Container(s) # Type</p>	
<p>11499-61</p>		<p>EB13-0.5</p>		<p>11/29/10 1209</p>		<p>5 day 1 baggie</p>	
<p>62</p>		<p>EB13-1.5</p>		<p>1210</p>		<p>X</p>	
<p>63</p>		<p>EB13-2.5</p>		<p>1211</p>		<p>X</p>	
<p>64</p>		<p>EB13-4.0</p>		<p>1212</p>		<p>X</p>	
<p>65</p>		<p>EB14-0.0</p>		<p>1222</p>		<p>X</p>	
<p>66</p>		<p>EB14-0.5</p>		<p>1223</p>		<p>X</p>	
<p>67</p>		<p>EB14-1.5</p>		<p>1224</p>		<p>X</p>	
<p>68</p>		<p>EB14-2.5</p>		<p>1225</p>		<p>X</p>	
<p>69</p>		<p>EB14-4.0</p>		<p>1226</p>		<p>X</p>	
<p>70</p>		<p>EB15-0.0</p>		<p>1235</p>		<p>X</p>	
<p>■ TAT starts 8AM the following day if samples received after 3 PM</p>		<p>TAT: A = Overnight ≤ 24 hrs</p>		<p>B = Emergency Next Workday</p>		<p>C = Critical 2 Workdays</p>	
						<p>D = Urgent 3 Workdays</p>	
						<p>E = Routine 7 Workdays</p>	
<p>Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal</p>						<p>Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃</p>	

CHAIN OF CUSTODY RECORD

pg. 8 of 13



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (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 type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC 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 Attention: Rebecca Silva	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
---	--	--

Project Name: Colusa 20 ADL	Project #: S9300-06-149	Sampler: (Printed Name) <i>John Pfeiffer</i>	(Signature) <i>John Pfeiffer</i>
Relinquished by: (Signature and Printed Name) <i>John Pfeiffer</i>	Date: <i>11/29/10</i>	Time: <i>1900</i>	Received by: (Signature and Printed Name) <i>Georan Stange</i>
Relinquished by: (Signature and Printed Name) <i>Georan Stange</i>	Date: <i>11/30/10</i>	Time: <i>1400</i>	Received by: (Signature and Printed Name) <i>ONTRAC</i>
Relinquished by: (Signature and Printed Name) <i>Mary</i>	Date: _____	Time: _____	Received by: (Signature and Printed Name) _____

I hereby authorize ATL to perform the work indicated below: Project Mgr (Submitter): <i>R Silva</i> <i>11/30/10</i>	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)
--	--	---	--

Sample/Records - Archival & Disposal
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.

Storage Fees (applies when storage is requested):

- Sample: \$2.00 / sample /mo (after 45 days)
- Records: \$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX										PRESERVATION	QA/QC		
	8091A (Pesticides)	8092 (PCB)	8280B (Volatiles)	8270C (BVA)	8010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	8021 (BTEX)	8021 (BTEX)			8021 (BTEX)	TAT #

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample ID / Location	Date	Time	
	114959-71		EB15-0.5	11/29/10	1236	
	72		EB15-1.5		1237	
	73		EB15-2.5		1238	
	74		EB15-4.0		1239	
	75		EB16-0.0		1246	
	76		EB16-0.5		1242	
	77		EB16-1.5		1248	
	78		EB16-2.5		1249	
	79		EB16-4.0		1250	
	80		EB17-0.0		1258	

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: A = <input type="checkbox"/> Overnight ≤ 24 hrs B = <input type="checkbox"/> Emergency Next Workday C = <input type="checkbox"/> Critical 2 Workdays D = <input type="checkbox"/> Urgent 3 Workdays E = <input type="checkbox"/> 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
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

CHAIN OF CUSTODY RECORD

pg. 9 of 13



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (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 type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
---------------	---	---

Client: GEOCON Consultants, Inc Attention: Rebecca Silva	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
---	--	--

Project Name: Colusa 20 ADL	Project #: S9300-06-149	Sampler: (Printed Name) John Pfeiffer	(Signature) <i>John Pfeiffer</i>
-----------------------------	-------------------------	--	----------------------------------

Relinquished by: (Signature and Printed Name) <i>John Pfeiffer</i>	Date: 11/29/10	Time: 1900	Received by: (Signature and Printed Name) <i>Gecon Storage</i>	Date: 11/29/10	Time: 1900
--	----------------	------------	--	----------------	------------

Relinquished by: (Signature and Printed Name) <i>Gecon Storage</i>	Date: 11/30/10	Time: 1400	Received by: (Signature and Printed Name) <i>ONTAC</i>	Date: 11/30/10	Time: 1400
--	----------------	------------	--	----------------	------------

Relinquished by: (Signature and Printed Name) _____	Date: _____	Time: _____	Received by: (Signature and Printed Name) <i>Mary</i>	Date: 12/1/10	Time: 839
---	-------------	-------------	---	---------------	-----------

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <i>R Silva</i> 11/29/10 Print Name Date 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: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)
--	--	---	---

Sample/Records - Archival & Disposal
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.

Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX										CONTAINER(S)	PRESERVATION	QA/QC			
	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Total lead (6010B)	SOIL				WATER	GROUND WATER	WASTEWATER

ITEM	LAB USE ONLY:		Sample Description			
	Batch #	Lab No.	Sample ID / Location	Date	Time	
	114959-81		EB17-0.5	11/29/10	1259	
		82	EB17-1.5		1300	
		83	EB17-2.5		1301	
		84	EB17-4.0		1302	
		85	EB18-0-0		1311	
		86	EB18-0-0.5		1312	
		87	EB18-1.5		1311	
		88	EB18-2.5		1313	
		89	EB18-4.0		1314	
		90	EB19-0-0		1325	

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: A = Overnight ≤ 24 hrs	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
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD

pg 10 of 13

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>	FOR LABORATORY USE ONLY			
	P.O. #: _____	Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	

Client: GEOCON Consultants, Inc Attention: Rebecca Silva	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
---	--	--

Project Name: Colusa 20 ADL	Project #: S9300-06-149	Sampler: (Printed Name) <u>John Pfeiffer</u>	(Signature) <u>John Pfeiffer</u>
Relinquished by: (Signature and Printed Name) <u>[Signature]</u>	Date: <u>11/29/10</u>	Time: <u>1900</u>	Received by: (Signature and Printed Name) <u>Beccan Storage</u>
Relinquished by: (Signature and Printed Name) <u>[Signature]</u>	Date: <u>11/30/10</u>	Time: <u>1600</u>	Received by: (Signature and Printed Name) <u>[Signature]</u>
Relinquished by: (Signature and Printed Name) <u>[Signature]</u>	Date: <u>12/1/10</u>	Time: <u>834</u>	Received by: (Signature and Printed Name) <u>[Signature]</u>

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <u>[Signature]</u> <u>11/30/10</u>	Send Report To: Attn: _____ Co: <u>SAME AS ABOVE</u> Address: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: <u>SAME AS ABOVE</u> Address: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: <u>Caltrans billing per 03A1368</u> <u>Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)</u>
--	---	--	---

Sample/Records - Archival & Disposal
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.

Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description				SPECIFY APPROPRIATE MATRIX										PRESERVATION	REMARKS							
	Batch #	Lab No.	Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BVA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Total lead (6010B)	SOIL			WATER	GROUND WATER	WASTEWATER	CARBON	PAINT	Container(s)	OTHER
	114959	91	EB19-0.5	11/29/10	1325									X	X							5-day	1	baggie	
		92	EB19-1.5		1327									X											
		93	EB19-2.5		1328									X											
		94	EB19-4.0		1329									X											
		95	EB20-0.0		1335									X											
		96	EB20-0.5		1336									X											
		97	EB20-1.5		1337									X											
		98	EB20-2.5		1338									X											
		99	EB20-4.0		1339									X											
		100	PC1	11/29/10	0945									X											

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: A = Overnight ≤ 24 hrs	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
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD

Pg. 1 of 13



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (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 type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC 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: 3160 Gold Valley Drive, Suite 800	Tel: 916.852.9118
Attention: Rebecca Silva	City: Rancho Cordova State: CA Zip Code: 95742	Fax: 916.852.9132

Project Name: Colusa 20 ADL	Project #: S9300-06-149	Sampler: (Printed Name) John Pfeiffer (Signature) <i>John Pfeiffer</i>
Relinquished by: (Signature and Printed Name) <i>John Pfeiffer</i>	Date: 11/29/10	Time: 11:00
Received by: (Signature and Printed Name) <i>Gecon Storage</i>	Date: 11/29/10	Time: 11:00
Relinquished by: (Signature and Printed Name) <i>Gecon Storage</i>	Date: 11/30/10	Time: 11:00
Received by: (Signature and Printed Name) <i>MTAC</i>	Date: 11/30/10	Time: 11:00
Relinquished by: (Signature and Printed Name) <i>Mary</i>	Date: 12/1/10	Time: 8:34

I hereby authorize ATL to perform the work indicated below: Project Mgr / Submitter: <i>R Silva</i> 11/30/10	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)
---	---	--	---

Sample/Records - Archival & Disposal
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.

Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description				SPECIFY APPROPRIATE MATRIX										PRESERVATION	REMARKS						
	Batch #	Lab No.	Sample ID / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8280B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8021 (DRO)	TITLE 22 / CAM 11 (6010 / 7000)	Total lead (6010B)	SOIL	WATER			GROUND WATER	WASTEWATER	CARBON	TAT #	Type	
	114959-101	5521-0.5		11/29/10	1245								X	X							5 Day	1	baggie	
	102	5521-1.5			1441								X											
	103	5521-2.5			1442								X											
	104	5521-3.5			1444								X											
	105	5521-4.5			1445								X											
	106	5521-5.5			1446								X											
	107	5522-0.5			1515								X											
	108	5522-1.5			1516								X											
	109	5522-2.5			1517								X											
	110	5522-3.5			1518								X											

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: A = <input type="checkbox"/> Overnight ≤ 24 hrs B = <input type="checkbox"/> Emergency Next Workday C = <input type="checkbox"/> Critical 2 Workdays D = <input type="checkbox"/> Urgent 3 Workdays E = <input type="checkbox"/> 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
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

CHAIN OF CUSTODY RECORD

Pg. 12 of 13



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90755

Tel: (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 type="checkbox"/> Other: _____	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC 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 Attention: Rebecca Silva	Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742	Tel: 916.852.9118 Fax: 916.852.9132
---	--	--

Project Name: Colusa 20 ADL	Project #: S9300-06-149	Sampler: (Printed Name) John Pfeiffer (Signature) <i>John Pfeiffer</i>
-----------------------------	-------------------------	---

Relinquished by: (Signature and Printed Name) <i>John Pfeiffer</i>	Date: 11/23/10	Time: 1900	Received by: (Signature and Printed Name) <i>Geocon Storage</i>	Date: 11/23/10	Time: 1900
Relinquished by: (Signature and Printed Name) <i>Geocon Storage</i>	Date: 11/30/10	Time: 1100	Received by: (Signature and Printed Name) <i>INTAC</i>	Date: 11/30/10	Time: 1100
Relinquished by: (Signature and Printed Name) _____	Date: _____	Time: _____	Received by: (Signature and Printed Name) _____	Date: 12/1/10	Time: 834

I hereby authorize ATL to perform the work indicated below: Project Mgr./Submitter: <i>R. Silva</i> 11/30/10 Print Name: <i>Rebecca</i> Signature: _____	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)
---	---	--	---

Sample/Records - Archival & Disposal
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.

Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX										PRESERVATION	Q A / Q C				
	8081A (Pesticides)	8082 (PCB)	8280B (Volatiles)	8270C (BVA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO) / 8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Total lead (6010B)	SOIL			WATER	GROUND WATER	WASTEWATER	CARBON

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample ID / Location	Date	Time	
	114957	111	SS22-4.5	11/23/10	1519	
		112	SS22-5.5		1520	
		113	SS22-8.5		1521	
		114	SS23-0.5		1535	
		115	SS23-1.5		1536	
		116	SS23-2.5		1537	
		117	SS23-4.5		1540	
		118	SS23-5.5		1541	
		119	SS23-6.5		1542	
		120	SS24-1.0		1552	

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: A = Overnight ≤ 24 hrs 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
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

CHAIN OF CUSTODY RECORD

Pg. 13 of 13

 <p>Advanced Technology Laboratories</p> <p>3275 Walnut Avenue Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040</p>	FOR LABORATORY USE ONLY			
	P.O. #: _____	Method of Transport: Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	Sample Condition Upon Receipt: 1. CHILLED Y <input type="checkbox"/> N <input 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 INTAC Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	

Client: GEOCON Consultants, Inc	Address: 3160 Gold Valley Drive, Suite 800	Tel: 916.852.9118
Attention: Rebecca Silva	City: Rancho Cordova State: CA Zip Code: 95742	Fax: 916.852.9132

Project Name: Colusa 20 ADL	Project #: S9300-06-149	Sampler: (Printed Name) John Pfeiffer (Signature) <i>John Pfeiffer</i>
Relinquished by: (Signature and Printed Name) <i>John Pfeiffer</i>	Date: 11/29/10	Time: 1900
Received by: (Signature and Printed Name) <i>Geora Stage</i>	Date: 11/29/10	Time: 1900
Relinquished by: (Signature and Printed Name) <i>Geora Stage & R. Silva</i>	Date: 11/30/10	Time: 1100
Received by: (Signature and Printed Name) <i>ONTAC</i>	Date: 11/30/10	Time: 1100
Relinquished by: (Signature and Printed Name) <i>Mary</i>	Date: 12/1/10	Time: 834

I hereby authorize ATL to perform the work indicated below: Project Mgr (Submitter): <i>R. Silva</i> 11/30/10	Send Report To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: SAME AS ABOVE Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: Caltrans billing per 03A1368 Please copy Kari Cook on the results and include an excel file. Thank you. (cook@geoconinc.com)
--	---	--	---

Sample/Records - Archival & Disposal
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.

Storage Fees (applies when storage is requested):
 ■ Sample: \$2.00 / sample /mo (after 45 days)
 ■ Records: \$1 /ATL workorder /mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description				SPECIFY APPROPRIATE MATRIX										PRESERVATION	QA/QC							
	Batch #	Lab No.	Sample ID / Location	Date	Time	8091A (Pesticides)	8082 (PCB)	8280B (Volatile)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	Total lead (6010B)	SOIL			WATER	GROUND WATER	WASTEWATER	CARBON	Container(s)	OTHER	REMARKS
	114959-121		SS25-3.0	11/29/10	1555									X	X							5-day	1	baggie	
	122		SS26-5.0		1557									X											
	123		SS27-1.0		1600									X											
	124		SS28-3.0		1602									X											
	125		SS29-1.5		1604									X											
	126		SS30-4.0		1606									X											

■ TAT starts 8AM the following day if samples received after 3 PM	TAT: A = <input type="checkbox"/> Overnight ≤ 24 hrs B = <input type="checkbox"/> Emergency Next Workday C = <input type="checkbox"/> Critical 2 Workdays D = <input type="checkbox"/> Urgent 3 Workdays E = <input type="checkbox"/> 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
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

December 16, 2010



Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
TEL: (916) 852-9118
FAX: (916) 852-9132

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196

Workorder No.: 114959

RE: Colusa 20 ADL, S9300-06-149

Attention: Rebecca Silva

Enclosed are the results for sample(s) received on December 01, 2010 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.

This is an addendum report. Please incorporate with documentation previously submitted.

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,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



**LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420**

ANALYTICAL RESULTS

CLIENT:	Geocon Consultants, Inc.	Lab Order:	114959
Project:	Colusa 20 ADL, S9300-06-149	Date Received	12/1/2010 8:34:00 AM
Project No:		Matrix:	Soil
Analyte:	Lead	Analyst:	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
114959-027A	WB6-0.5	2.4	mg/L	68896	0.25	1	11/29/2010	12/16/2010
114959-032A	WB7-0.5	2.1	mg/L	68896	0.25	1	11/29/2010	12/16/2010
114959-041A	WB9-0.5	2.7	mg/L	68896	0.25	1	11/29/2010	12/16/2010
114959-046A	WB10-0.5	2.5	mg/L	68896	0.25	1	11/29/2010	12/16/2010
114959-047A	WB10-1.5	1.6	mg/L	68896	0.25	1	11/29/2010	12/16/2010
114959-123A	SS27-1.0	0.38	mg/L	68896	0.25	1	11/29/2010	12/16/2010

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	



CLIENT: Geocon Consultants, Inc.
Work Order: 114959
Project: Colusa 20 ADL, S9300-06-149

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-68896A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2010	RunNo: 127831						
Client ID: PBS	Batch ID: 68896	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2010	SeqNo: 2067378						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.25

Sample ID: LCS-68896	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2010	RunNo: 127831						
Client ID: LCSS	Batch ID: 68896	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2010	SeqNo: 2067379						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 4.799 0.25 5.000 0 96.0 80 120

Sample ID: 115165-004A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2010	RunNo: 127831						
Client ID: ZZZZZ	Batch ID: 68896	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2010	SeqNo: 2067386						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 0.301 0.25 0.2612 14.2 20

Sample ID: 115165-004A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2010	RunNo: 127831						
Client ID: ZZZZZ	Batch ID: 68896	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2010	SeqNo: 2067388						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

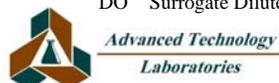
Lead 5.236 0.25 5.000 0.2612 99.5 80 120

Sample ID: 115165-004A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/14/2010	RunNo: 127831						
Client ID: ZZZZZ	Batch ID: 68896	TestNo: WET/ EPA 74 WET		Analysis Date: 12/16/2010	SeqNo: 2067389						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 5.311 0.25 5.000 0.2612 101 80 120 5.236 1.41 20

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



Diane Galvan

From: Rebecca Silva [silva@geoconinc.com]
Sent: Friday, December 10, 2010 8:14 AM
To: Diane Galvan
Cc: 'Gemma Reblando'
Subject: RE: Results/EDD - Colusa 20 ADL (114959)

Hi Diane - Please analyze the six soil samples (not the paint sample) with total lead equal to or greater than 50 mg/kg for WET lead on 5-day TAT.

Thanks,
Rebecca

December 28, 2010



Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196

TEL: (916) 852-9118
FAX: (916) 852-9132

Workorder No.: 114959

RE: Colusa 20 ADL, S9300-06-149

Attention: Rebecca Silva

Enclosed are the results for sample(s) received on December 01, 2010 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.

This is an addendum report. Please incorporate with documentation previously submitted.

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,


Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.



Advanced Technology Laboratories

ANALYTICAL RESULTS
Print Date: 28-Dec-10

CLIENT:	Geocon Consultants, Inc.	Client Sample ID:	PC1
Lab Order:	114959	Collection Date:	11/29/2010
Project:	Colusa 20 ADL, S9300-06-149	Matrix:	PAINT
Lab ID:	114959-100A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (STLC)						
	WET		WET/ EPA 7420			
RunID: AA2_101223B	QC Batch: 69102			PrepDate: 12/21/2010		Analyst: VV
Lead	2.0	0.25		mg/L	1	12/23/2010 10:31 AM

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		



CLIENT: Geocon Consultants, Inc.
Work Order: 114959
Project: Colusa 20 ADL, S9300-06-149

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-69102A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/21/2010	RunNo: 128091						
Client ID: PBS	Batch ID: 69102	TestNo: WET/ EPA 74 WET		Analysis Date: 12/23/2010	SeqNo: 2073212						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-69102	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/21/2010	RunNo: 128091						
Client ID: LCSS	Batch ID: 69102	TestNo: WET/ EPA 74 WET		Analysis Date: 12/23/2010	SeqNo: 2073213						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.090	0.25	5.000	0	102	80	120				

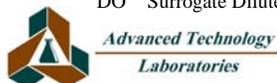
Sample ID: 114338-008A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/21/2010	RunNo: 128091						
Client ID: ZZZZZ	Batch ID: 69102	TestNo: WET/ EPA 74 WET		Analysis Date: 12/23/2010	SeqNo: 2073215						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.896	0.50						10.57	3.07	20	

Sample ID: 114338-008A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/21/2010	RunNo: 128091						
Client ID: ZZZZZ	Batch ID: 69102	TestNo: WET/ EPA 74 WET		Analysis Date: 12/23/2010	SeqNo: 2073216						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15.140	0.50	5.000	10.57	91.5	80	120				

Sample ID: 114338-008A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 12/21/2010	RunNo: 128091						
Client ID: ZZZZZ	Batch ID: 69102	TestNo: WET/ EPA 74 WET		Analysis Date: 12/23/2010	SeqNo: 2073217						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15.326	0.50	5.000	10.57	95.2	80	120	15.14	1.22	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: Rebecca Silva [silva@geoconinc.com]
Sent: Monday, December 20, 2010 11:25 AM
To: Diane Galvan
Cc: 'Gemma Reblando'
Subject: RE: Results/EDD - Colusa 20 ADL (114959)

Hi Diane - Please analyze paint chip sample PC1 for WET lead on standard TAT.

Thanks, Rebecca



EMSL Analytical, Inc

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

Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **John Pfeiffer**
Geocon Consultants
3160 Gold Valley Drive
Suite 800
Rancho Cordova, CA 95742

Customer ID: GECN80
Customer PO: 03A1368
Received: 12/03/10 11:00 AM
EMSL Order: 091010527

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **03A1368**
S9300-06-149

EMSL Proj:
Analysis Date: 12/8/2010

Test Report: PLM Analysis of Bulk Samples for Asbestos via EPA 600/R-93/116 Method with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
EB17-1.5-NOA 091010527-0001		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
EB18-1.5-NOA 091010527-0002		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
EB19-0.5-NOA 091010527-0003		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
EB20-0.5-NOA 091010527-0004		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS21-1.5-NOA 091010527-0005		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS22-0.5-NOA 091010527-0006		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS23-0.5-NOA 091010527-0007		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
SS24-1.0-NOA 091010527-0008		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
SS25-3.0-NOA 091010527-0009		Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Initial report from 12/09/2010 08:26:07

Analyst(s)
Adam C. Fink (9)


Baojia Ke, Laboratory Manager
or other approved signatory

This report relates only to the samples listed above and may not be reproduced except in full, without EMSL's written approval. 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. EMSL is not responsible for sample collection activities or method limitations. Some samples may contain asbestos fibers below the resolution limit of PLM. EMSL recommends that samples reported as none detected or less than the limit of detection undergo additional analysis via TEM. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc 2235 Polvorosa Ave , Suite 230, San Leandro CA



Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

091010527

Sacramento CA
 Suite 160
 4640 Northgate Blvd.
 Sacramento CA 95834
 PHONE: (916) 921-8251
 FAX: (916) 921-8253

Company: Geocon Consultants, Inc.		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 3160 Gold Valley Drive, Suite 800		Third Party Billing requires written authorization from third party	
City/State/Zip: Rancho Cordova, CA 95742			
Report To (Name): John Pfeiffer		Fax: 916-852-9132	
Telephone: 916-852-9118		Email Address: pfeiffer@geoconinc.com	
Project Name/Number: S9300-06-149 <i>Contract # 03A1368</i>			
Please Provide Results:		Purchase Order:	State Samples Taken: CA

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 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 checked="" 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"/>
--	--	---

Check For Positive Stop - Clearly Identify Homogenous Group

Samplers Name: *John Pfeiffer* Samplers Signature: *John Pfeiffer*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
<i>EB17-1.5-NOA</i>			<i>11/29/10 1300</i>
<i>EB18-1.5-NOA</i>			<i>11/29/10 1312</i>
<i>EB19-0.5-NOA</i>			<i>11/29/10 1327</i>
<i>EB20-0.5-NOA</i>			<i>11/29/10 1336</i>
<i>SS21-1.5-NOA</i>			<i>11/29/10 1441</i>
<i>SS22-0.5-NOA</i>			<i>11/29/10 1515</i>
<i>SS23-0.5-NOA</i>			<i>11/29/10 1535</i>
<i>SS24-1.0-NOA</i>			<i>11/29/10 1552</i>

Client Sample # (s): _____ Total # of Samples: *9*

Relinquished (Client): *John Pfeiffer* Date: *12/2/10* Time: *2:00*

Received (Lab): _____ Date: *12-3-10* Time: *11am upg*

Comments/Special Instructions:

