

INFORMATION HANDOUT

For Contract No. 06-0N9604

At 06-Ker-204-5.4/6.7

Identified by

Project ID 0612000026

PERMITS

California Department of Fish and Wildlife

Stream Alteration Agreement No. 2005-0097-R4
1602 Agreement 2005-0097-R4(Extended)

MATERIALS INFORMATION

Asbestos Survey Report

Alternative Flared Terminal System



**DISTRICT 6 ENVIRONMENTAL
1602 AGREEMENT 2005-0097-R4 (Extended)
MAINTENANCE NOTIFICATION
VERIFICATION REQUEST FORM (VRF)**

 ORIGINAL REQUEST

 REVISION NO. _____

Current fee per Location is \$122.75

Number of Locations: 2 **Total fee due: \$245.50**

Date of Request

January 28, 2015

Name of Requestor: Primavera Parker

Phone Number: (559) 445-5502

Cost Center: EA 06-0N960

Cell Number/ Pager:

Maintenance Region: Fresno District 06

E-Mail: primavera.parker@dot.ca.gov

Project Start Date: August 2015

Project End Date: August 2016

Location of Work (County/Route/Postmile): Kern/ SR 204/ PM 5.61 and PM 5.90

Name of Stream: Kern River and Calloway Canal

Nearest landmark, crossroad or other identifier: PM 5.61/Bridge No.50-0033
and PM 5.90/Bridge No. 50-0209

Latitude/Longitude (in Degrees and Minutes)

Calloway Canal 35.397214/-119.033062, Kern River 35.395368/-119.030573,

Maintenance Activities

Type of Work

- Sediment Removal (Amount of material to remove below obvious flow line (cubic yards))
- Sediment will be removed with Vactor
- Equipment can work off bank
- Equipment must work from within stream channel
- Hand removal of vegetation
- Tree Thinning
- Tree Removal (By Hand)
- Vegetation removal will include removal of roots
- Herbicide to stump
- Minor Bridge work (cleaning, painting etc.)
- Repair of damaged RSP
- Work will occur in live channel
- Other:

Routine Work Requiring Variance

- Work will occur outside RMA Dates
- Access to be created down to waterway
- Other:

Equipment

- Chainsaw/Clippers
- Backhoe/ grade-all
- Excavator
- Vactor
- Other: Scaffolding equipment

Description of Proposed Maintenance Work

Caltrans is proposing to clean and paint at 2 bridge locations (PM 5.61 @ Kern River and PM 5.90 @ Calloway Canal) in Kern County on State Route 204. This work will require scaffolding to be placed under the 2 bridge structures, which will be done by accessing the channel below the bridge. Equipment will need to be down in the 2 waterways in order to put up and remove scaffolding. The waterways will be dry during set up and removal. No trees and vegetation will be removed.

Once the scaffolding is in place, all the painting and cleaning work can be done from the bridge without access to the channel. All materials will be fully contained.

Section 2: Biological Information

Area Biologist: Primavera Parker
 Phone: 559-445-5502
 E-Mail: primavera.parker@dot.ca.gov

Field Review Conducted By: Angela Gallardo and Primavera Parker

Date of Biological Field Review: May 2013 and December 2014

Need CESA/FESA Consultation/ Species:

Known Sensitive Resources:

Restrictions on Work:

Habitat Classification: Riparian habitat at the Kern River. The Calloway and Stine Canals are irrigation canals.

Comments: The work area will be completely sealed to contain all sand blasted materials and/or water from pressure washing and removed paint. All sand blasting materials, waste water and paint residues will be captured in small barrels from the containment system and disposed of at an appropriate off-site location.

- Routine Work 10 day Notice
 Urgent – minimum 2 day notice (describe urgency below)
 Emergency – work to begin immediately (describe emergency below)

Comments:

Section 3: CDFW Approval

In accordance with Section II of the Agreement between the California Department of Fish and Wildlife (CDFW) and the California Department of Transportation (Caltrans) for Routine Maintenance in waterways within/adjacent to State Right of Way for the purposes of protecting and maintaining the state highway system. Caltrans hereby notifies CDFW of its intent to perform routine maintenance work within a waterway covered in the Agreement.

CDFW Contact Information

Name: **Laura Peterson-Diaz**

Phone Number: **(559)243-4014 x225**

E-Mail: **laura.peterson-diaz@wildlife.ca.gov**

Date Submitted to CDFW by Caltrans: **1-29-15**

Date CDFW Responded to Caltrans: **1-30-15**

PDF Signature will be place below if approved:

Laura Peterson-Diaz

Notice of Concurrence

Work can begin as scheduled

Work can begin immediately

Notice of concurrence with conditions (See CDFW comments below)

Work can begin as scheduled

Work can begin immediately

Notice of non-concurrence with comments (See CDFW Comments below)

Comments: Due to the prolonged schedule of the project a new general biological survey will need to be done prior to entering the channel each time (both set up and removal) and at each location.

All access to the channel will be done when the channel is naturally dry. Work from bridge deck may be done when water is flowing below since all materials shall be fully contained.



DEPARTMENT OF FISH AND GAME

<http://www.dfg.ca.gov>

Central Region
1234 East Shaw Avenue
Fresno, CA 93710
(559) 243-4005



September 10, 2008

Zachary Parker
District 6
2015 East Shields Avenue, Suite 100
Fresno, California 93726

Subject: Stream Alteration Agreement No. 2005-0097-R4
Routine Maintenance Activities in Streams, Rivers, Ponds, Lakes, or Reservoirs –
Madera, Fresno, Kings, Tulare, and Kern Counties

Dear Mr. Parker:

The Department of Fish and Game (Department) has determined that your Project described in Stream Alteration Agreement No. 2005-0097-R4 is exempt from the California Environmental Quality Act (CEQA), and will file a Notice of Exemption for your Project. The Notice of Exemption will be filed with the Office of Planning and Research, in accordance with CEQA.

Your copy of the signed agreement is enclosed. This completes the Department's agreement process. You may proceed with your Project according to the terms and provisions of your Stream Alteration Agreement if you have obtained all other permits required by local, other State, and Federal agencies. The Department's determination that your Project is exempt from CEQA may be legally challenged within 35 days following the filing of the Notice of Exemption. As a result, you may wish, but are not required, to delay commencement of your Project until after the 35-day period expires.

If you have any questions regarding this matter, please contact Laura Peterson-Diaz, Environmental Scientist, at the above letterhead address or by telephone at (559) 243-4014, extension 225. Thank you for your cooperation.

Sincerely,

Andrew G. Gordus, PhD

for W. E. Loudermilk
Regional Manager

Enclosure

AGREEMENT



**Stream Alteration Agreement–Routine Maintenance
California Fish and Game Code Section 1602
Stream Alteration Agreement No. 2005-0097-R4
California Department of Transportation District 6
Routine Maintenance Activities in Streams,
Rivers, Ponds, Lakes, or Reservoirs -
Madera, Fresno, Kings, Tulare, and Kern Counties**

Parties: **California Department of Fish and Game**
Central Region
1234 East Shaw Avenue
Fresno, California 93710

California Department of Transportation
Mr. Zachary Parker
District 6
2015 East Shields Avenue, Suite 100
Fresno, California 93726

1 **PURPOSE:**

2
3 This Stream Alteration Agreement–Routine Maintenance is by and between the
4 **California Department of Fish and Game**, herein after called the "Department", and
5 the **California Department of Transportation**, hereinafter called "Caltrans", for the
6 purpose of delineating and defining routine maintenance activities within streams and
7 ponds in Madera, Fresno, Kings, Tulare, and Kern counties of Caltrans' District 6. This
8 Stream Alteration Agreement–Routine Maintenance identifies general and site-specific
9 provisions and restrictions on Caltrans activities, to prevent any substantial adverse
10 impacts to fish and wildlife resources while permitting required maintenance work to
11 proceed.

12
13 **WHEREAS:**

14
15 The California Department of Transportation (referred to as "Caltrans") on July 27,
16 2005, notified ("Notification" No. 2005-0097-R4) the Department of Fish and Game
17 (Department) of their intent to divert or obstruct the natural flow of, or change the bed or
18 banks of, or use materials from various streams, rivers, ponds, lakes, or reservoirs in
19 Madera, Fresno, Kings, Tulare, and Kern counties, waters over which the Department
20 asserts jurisdiction pursuant to Division 2, Chapter 6 of the California Fish and Game
21 Code.

Agreement No. 2005-0097-R4
Department of Transportation District 6
Routine Maintenance Activities in Streams and Ponds-
Madera, Fresno, Kings Tulare, and Kern Counties

1 1. Section 1601 of the Fish and Game Code (FGC§) allows the Department to
2 propose reasonable modifications to certain maintenance and construction projects as
3 would allow for the protection and continuance of existing fish and wildlife resources
4 that may be substantially adversely affected by that maintenance activity.

5
6 2. With regard to any Project that involves routine maintenance and operation of
7 water supply, drainage, flood control, or waste treatment and disposal facilities, notice
8 to, and agreement with, the Department is not required subsequent to the initial
9 notification agreement, unless the work as described in the agreement is substantially
10 changed or conditions affecting fish and wildlife resources change, and the resources
11 are adversely affected by the activity conducted under the agreement.

12
13 3. It is essential that Caltrans perform routine maintenance within miscellaneous
14 streams and lakes in Caltrans' District 6 to maintain the designed capacity of the
15 channel(s), to protect the State Highway System, and to prevent loss of life and
16 property.

17
18 4. Consistent with the policies of FGC§ 1600 et seq., the protection and conservation
19 of the fish and wildlife resources of California are of utmost public interest, and fish and
20 wildlife conservation is a proper responsibility of the State.

21
22 5. In order to avoid future conflicts, it is mutually beneficial to delineate and define
23 routine maintenance, to establish procedures to expedite maintenance activities, and to
24 provide for the protection and continuance of the existing fish or wildlife resources
25 during such maintenance activities.

26
27 6. This Stream Alteration Agreement–Routine Maintenance is not intended to affect
28 Caltrans right under FGC§ 1601 (f) to undertake emergency work necessary to protect
29 life or property.

30
31 **NOW THEREFORE, IT IS AGREED THAT:**

32
33 1. The receipt of this document ("Agreement"), by Caltrans, satisfies the
34 Department's requirement to notify Caltrans of the existence of an existing fish and
35 wildlife resource that may be substantially adversely affected by the Project that is
36 described in the Notification.

37
38 2. The contents of this Agreement constitute the Department's proposals as to
39 measures necessary to protect fish and wildlife resources, and satisfy the Department's
40 requirement to submit these proposals to Caltrans.

41
42 3. The signature of Caltrans' representative on this Agreement constitutes Caltrans'
43 commitment to incorporate the Department's proposals into the Project that is described
44 in the Notification.

Agreement No. 2005-0097-R4
Department of Transportation District 6
Routine Maintenance Activities in Streams and Ponds-
Madera, Fresno, Kings, Tulare, and Kern Counties

1 4. This Agreement does not exempt Caltrans from complying with all other applicable
2 local, State and Federal law, or other legal obligations.

3
4 5. This Agreement, alone, does not constitute or imply the approval or endorsement
5 of a Project, or of specific Project features, by the Department of Fish and Game,
6 beyond the Department's limited scope of responsibility, established by Code Sections
7 1600 et seq. This Agreement does not therefore assure concurrence, by the
8 Department, with the issuance of permits from this or any other agency. Independent
9 review and recommendations shall be provided by the Department as appropriate on
10 those maintenance projects where local, State or Federal permits or environmental
11 reports are required.

12
13 6. This Agreement does not authorize the "take" as defined by Fish and Game Code
14 Section 86 as (hunt, pursue, catch, capture, kill, or attempt to do so) of State-listed
15 threatened or endangered species. If Caltrans, in the performance of the agreed work,
16 discovers the presence of a listed species in the Project work area, work shall stop
17 immediately. Caltrans shall not resume activities authorized by this Agreement until
18 such time as valid "take" permits are obtained from the Department pursuant to Fish
19 and Game Code Section 2081(b) and additional California Environmental Quality Act
20 (CEQA) analysis is complete.

21
22 7. To the extent that the Provisions of this Agreement provide for the diversion of
23 water, they are agreed to with the understanding that Caltrans possesses the legal right
24 to so divert such water.

25
26 8. To the extent that the Provisions of this Agreement provide for activities that
27 require Caltrans to trespass on another owner's property, they are agreed to with the
28 understanding that Caltrans possesses the legal right to so trespass.

29
30 9. To the extent that the Provisions of this Agreement provide for activities that are
31 subject to the authority of other public agencies, said activities are agreed to with the
32 understanding that all appropriate permits and authorizations shall be obtained prior to
33 commencing agreed activities.

34
35 10. All Provisions of this Agreement remain in force throughout the term of the
36 Agreement. Any Provision of the Agreement may be amended at any time, provided
37 such amendment is agreed to in writing by both parties. Mutually approved
38 amendments become part of the original Agreement and are subject to all previously
39 negotiated Provisions. The Agreement may be terminated by either party, subject to
40 30 days written notification.

41
42 11. Caltrans shall provide a copy of the Agreement to the Project supervisors and all
43 contractors and subcontractors. Copies of the Agreement shall be available at work
44 sites during all periods of active work and shall be presented to Department personnel
45 upon demand.

1 12. Caltrans agrees to provide the Department access to the Project site at any time to
2 ensure compliance with the terms, conditions, and Provisions of this Agreement.

3
4 13. Caltrans and any contractor or subcontractor, working on activities covered by this
5 Agreement, are jointly and separately liable for compliance with the Provisions of this
6 Agreement. Any violation of the Provisions of this Agreement is cause to stop all work
7 immediately until the problem is reconciled. Failure to comply with the Provisions and
8 requirements of this Agreement may result in prosecution.

9
10 14. Caltrans assumes responsibility for the restoration of any fish and wildlife habitat
11 which may be impaired or damaged either directly or, incidental to the Project, as a
12 result of failure to properly implement or complete the mitigation features of this
13 Agreement, or from activities which were not included in the Caltrans' Notification.

14
15 15. It is understood that the Department enters into this Agreement for purposes of
16 establishing protective features for fish and wildlife, in the event that a Project is
17 implemented. The decision to proceed with each Maintenance Project is the sole
18 responsibility of Caltrans, and is not required by this Agreement. It is agreed that all
19 liability and/or incurred costs, related to or arising out of Caltrans' Project and the fish
20 and wildlife protective conditions of this Agreement, remain the sole responsibility of
21 Caltrans. Caltrans agrees to hold harmless and defend the Department of Fish and
22 Game against any related claim made by any party or parties for personal injury or
23 other damage.

24
25 16. The terms, conditions, and Provisions contained herein constitute the limit of
26 activities agreed to and resolved by this Agreement. The signing of this Agreement
27 does not imply that Caltrans is precluded from doing other activities at the site.
28 However, activities not specifically agreed to and resolved by this Agreement are
29 subject to separate notification pursuant to Fish and Game Code Sections 1600 et seq.

30
31 **California Environmental Quality Act (CEQA) Compliance:** In approving this
32 Agreement, the Department is independently required to assess the applicability of
33 CEQA. The features of this Agreement shall be considered as part of the overall
34 Project description. Caltrans' concurrence signature on this Agreement serves as
35 confirmation to the Department that the activities that shall be conducted under the
36 terms of this Agreement are consistent with the Project described in Notification
37 No. 2005-0097-R4. Caltrans submitted a Categorical Exemption signed June 5, 2007.

38
39 **Project Location:** The work authorized by this Agreement will occur in Madera,
40 Fresno, Kings, Tulare, and Kern counties. A list of all possible bridges and culverts
41 within these counties where work might occur was submitted with the notification.
42 Caltrans shall submit a Maintenance Notification Verification Request Form (VRF)
43 Exhibit 1 before work begins at any of these locations. The VRF shall include a map of
44 the location and photos when possible as well as a description of the work to be done
45 at that location.

Agreement No. 2005-0097-R4
Department of Transportation District 6
Routine Maintenance Activities in Streams and Ponds-
Madera, Fresno, Kings, Tulare, and Kern Counties

1 **Project Description:** Caltrans' Notification includes Fish and Game Notification Form
2 FG2023 and lists of the bridges and culverts on State routes in District 6. The
3 Notification comprises Caltrans' Project description, and it is used as the basis for
4 establishing the protective Provisions that are included in this Agreement. Any changes
5 or additions to the Project as described in the Notification shall require additional
6 consultation and protective Provisions. The Department's concurrence with Caltrans'
7 CEQA Determination is based upon Caltrans' commitment to full implementation of the
8 Provisions of this Agreement. Caltrans has proposed the following scope of work. The
9 bulleted items comprise the activities authorized by this Agreement.

10
11 • Removal of Debris or Obstructions: Caltrans may clear existing facilities of trash,
12 rubbish, flood-deposited woody debris, beaver dams, and material in clear danger
13 of falling into the channel to the extent that these obstructions significantly reduce
14 channel capacity, impede storm flow, accelerate erosion and/or cause damage to
15 man-made structures. These activities shall be conducted only when streams are
16 dry or outside of the active channel, with the exception of flood-deposited woody
17 debris immediately following a storm event, which may be removed while water is
18 present.

19
20 • Removal of Silt, Sand, or Sediment: Caltrans may clear existing facilities of silt,
21 sand, or sediment which reduces or obstructs flow. This agreement does not
22 authorize Caltrans to remove silt, sand, sediment, or other material beyond a
23 facilities current design flow or beyond 50 feet from the facility. These activities
24 shall be conducted only when streams are dry.

25
26 • Vegetation Control: Caltrans may control herbaceous vegetation in a facility that
27 restricts normal flow under or through it, except that Caltrans may not remove
28 trees greater than four (4) inches in diameter at breast height (DBH) without prior
29 approval from the Department. Vegetation removal shall be limited to 50 feet from
30 the existing facility to facilitate stream flow. These activities shall be conducted
31 only when streams are dry, or outside of the active channel.

32
33 • Minor Repair of Existing Facilities: Caltrans may make minor repairs to existing
34 facilities in dry stream channels; including flap gates and water control structures,
35 provided that bank stability is not degraded.

36
37 • Rip Rap Replenishment: Caltrans may replenish damaged rip rap with clean rock
38 within the existing footprint of previously rip rapped areas provided the stream is
39 dry and, with prior Department approval, old rip rap that may have fallen into the
40 channel is removed. Placement shall be done without heavy equipment entering
41 the streambed or channel. If the replacement requires any vegetation removal,
42 prior written approval from the Department is required.

- 1 • Culverts: Caltrans may maintain or replace culverts in stream channels associated
2 with roadways and install energy dissipaters, headwalls, and wingwalls on existing
3 culverts. Larger culverts may be installed provided the new culvert will not expand
4 of the use of the roadway where the culvert is being replaced. These activities
5 shall be conducted only when streams are dry.
6
- 7 • Test Boring: Caltrans may obtain core samples and conduct other minor
8 geotechnical sampling, for the purpose of determining bridge foundation stability or
9 for cultural investigations provided such work does not cause an adverse impact to
10 fish and wildlife resources. These activities shall be conducted only when streams
11 are dry, or outside of the active channel.
12

13 The specific type and extent of work to be done, specifications (if applicable), biological
14 resources in the vicinity and date work is scheduled shall be submitted with Caltrans'
15 Maintenance Notification VRF.
16

17 **Plant and Animal Species of Concern:** This Agreement is intended to specify
18 measures to avoid adverse impacts to the fish and wildlife resources that occupy the
19 waterways where maintenance work will occur and the adjacent areas. Species that
20 could potentially be impacted are birds, mammals, reptiles, amphibians, invertebrates,
21 and plants that comprise the local ecosystem. Departmental files and Caltrans' records
22 contain lists of species that could occur in the Project vicinity.
23

24 PROVISIONS:

25 General

26
27
28 1. The Notification, together with all supporting documents, including the
29 Maintenance Notification VRF's (Exhibit 1), is hereby incorporated into this Agreement
30 to describe the location and features of the proposed maintenance projects. Caltrans
31 agrees that all work shall be done as described in the Notification and supporting
32 documents, incorporating all wildlife resource protection features, mitigation measures,
33 and provisions as described in this Agreement.
34

35 2. Two (2) weeks prior to beginning work, Caltrans shall submit a Maintenance
36 Notification VRF, to the Department (fax to Laura Peterson-Diaz, Environmental
37 Scientist, at (559) 243-4020 or e-mail to lpdiaz@dfg.ca.gov). Upon receipt of a VRF,
38 the Department shall determine if the maintenance work may proceed as scheduled,
39 and that it meets the required avoidance measures and limited scope of projects
40 allowed in this agreement, or may not be executed under the Maintenance Agreement
41 and requires separate 1602 notification and CEQA analysis. Caltrans shall also notify
42 the Department upon the completion of the maintenance activities.
43

44 3. Projects with a footprint larger than 2,000 square feet or any Project over 50 feet in
45 length, or adjacent projects that total over 50 feet in length within three (3) years shall

1 require consultation with the Department, and will require a separate 1602 notification
2 and CEQA analysis.

3
4 4. Before the start of maintenance activities covered under this Agreement, Caltrans
5 shall provide training and a copy of this Programmatic Stream Maintenance Agreement
6 to all contractors, subcontractors and Caltrans Project supervisors. All workers shall
7 have received training from Caltrans' staff, or approved alternate trainer, on the content
8 of this Agreement, the resources at stake, and the legal consequences of non-
9 compliance.

10
11 5. Copies of this Programmatic Stream Maintenance Agreement shall be available at
12 the Project site during all periods of active work and must be presented to the
13 Department personnel upon demand.

14
15 6. Agreed activities within the bed, bank or channel may commence after the
16 Department has given its concurrence to the VRF. This Agreement shall remain in
17 effect for five (5) years beginning on the date signed by the Department.

18
19 Flagging/Fencing

20
21 7. The upstream and downstream limits of the work areas, access routes, and all
22 Environmentally Sensitive Area (ESA) boundaries shall be identified with brightly
23 colored flagging. All other areas within the riparian corridor shall be avoided. The work
24 area limits shall not extend beyond Caltrans' Right of Way (ROW) and/or temporary
25 easements, and shall be confined to the minimal area needed to accomplish the
26 proposed work. Flagging shall be maintained in good repair.

27
28 Wildlife

29
30 8. A Caltrans biologist shall review all maintenance activities and shall issue a
31 standard Caltrans report for subject maintenance. The biologist shall conduct any
32 general wildlife surveys needed to confirm that there will not be any adverse impacts to
33 fish and wildlife resources due to the maintenance work. Caltrans shall forward this
34 clearance to the Department as part of the VRF.

35
36 9. Maintenance activities that may disturb avian nesting habitat or will take place
37 during the February 15 through September 1 nesting season, shall only be approved
38 after a qualified Caltrans biologist conducts surveys for actively nesting birds. Survey
39 results shall be sent to the Department for review if nesting activity is evident, work may
40 not proceed without written approval from the Department. Evidence of nest building,
41 egg laying or chick rearing may cause work delays until nesting activities have finished.

42
43 10. Swallows – Caltrans shall avoid work on structures when it would disturb nesting
44 swallows (February 15 - September 1). If such a condition cannot be met, then prior to
45 February 1, of each year, Caltrans shall remove all existing nests which would be

1 destroyed by the maintenance activities. Caltrans shall continue to discourage new
2 nest building in places where they would be disturbed, using methods developed in
3 consultation with the Caltrans District biologist and the Department. Nest removal and
4 hazing must be repeated at least weekly until construction begins, or until a swallow
5 exclusion device (netting with visual warning for the birds to prevent entanglement) is
6 installed. Swallows may be allowed to nest on portions of the structure where conflicts
7 during maintenance activities are not anticipated.

8
9 11. Access/egress and disposal site locations shall be selected in areas that do not
10 have animal burrows or provide habitat for listed/sensitive species.

11
12 12. All work shall be completed during daylight hours.

13
14 13. If any wildlife is encountered during the course of routine maintenance work, said
15 wildlife shall be allowed to freely leave the area unharmed.

16
17 Listed/Sensitive Species (Including both plant and animal species)

18
19 14. Areas in Caltrans District 6 have been identified as areas that are potentially
20 inhabited by State- or Federal-listed/sensitive species. This Stream Alteration
21 Agreement-Routine Maintenance does not allow for the "take," or "incidental take," of
22 any State- or Federal-listed threatened or endangered species, Fully Protected
23 Species, or California Species of Special Concern. Liability for any "take," or "incidental
24 take," of such listed/sensitive species remains the responsibility of Caltrans for the
25 duration of maintenance activities. Any "take" of such listed/sensitive species may
26 result in prosecution and shall nullify this Stream Alteration Agreement-Routine
27 Maintenance.

28
29 15. In areas that may support State- or Federal-listed/sensitive species, a qualified
30 Caltrans biologist shall conduct Department and United States Fish and Wildlife Service
31 (USFWS) approved surveys for appropriate potential rare, threatened, and endangered
32 species. Caltrans shall not begin work until the Department concurs with the biologist's
33 determination that maintenance activities will avoid impacts to any listed species. If any
34 State- or Federal-listed Threatened or Endangered species are found within the
35 proposed work area or could be impacted by the work proposed, a new Agreement will
36 be necessary, a new CEQA analysis will need to be conducted, and a 2081(b)
37 Incidental Take Permit may be required.

38
39 16. A qualified biologist shall be present during any maintenance activities in areas
40 where State- or Federal-listed, threatened and or endangered species are known to be
41 present to ensure no impacts occur to the species. This environmental monitor shall
42 have the authority to suspend maintenance activities that may result in "take" of a
43 State- or Federal-listed species.

1 Vegetation

2
3 17. Vegetation removal shall be completed by hand where possible and practical. Use
4 of heavy equipment or chemicals shall not be allowed without written permission from
5 the Department. The disturbance or removal of vegetation within the agreed work area
6 shall not exceed the minimum necessary to complete operations and ensure proper
7 operation of the culvert, structure, seep or pond. Precautions shall be taken to avoid
8 any damage to non-target vegetation by people or equipment. Where appropriate,
9 roots and stumps shall be left intact to facilitate regrowth.

10
11 18. No living, native, trees or woody shrubs over four (4) inches DBH or branches
12 greater than three (3) inches shall be removed without prior Department approval.

13
14 19. Elderberry bushes shall only be trimmed or removed in accordance with USFWS
15 protocol and applicable permits.

16
17 20. Caltrans may manually remove non-native vegetation [such as tamarisk, giant
18 reed (*arundo*), tree tobacco, castor bean, pampas grass, eucalyptus, and acacia],
19 including stumps and roots from all jurisdictional areas. Work shall be done outside the
20 bird nesting period (February 15 - August 15) unless surveys are done to determine that
21 no nesting birds will be impacted. Herbicide application will require specific written
22 Department approval in the concurrence to the VRF.

23
24 21. Emergent vegetation in streams and ponds shall be removed only when work area
25 is dry, using the following protocol.

26
27 Ponds and Seeps: Maintenance activities shall be limited to the amount
28 necessary to maintain drainage and storage capacity in their original location and
29 configuration. Only 50 percent of a pond or seep shall be maintained in any one
30 (1) year. Areas cleared shall not be cleared again for a minimum of two (2) years.

31
32 Streams: No native vegetation shall be disturbed on the upper half (1/2) of the
33 bank slope or on the top of the bank, except that Caltrans may prune vegetation
34 (except elderberry bushes unless the USFWS has given approval to do so) to the
35 point where operation of a structure and/or the original line of sight for
36 driveways/roadways entering a State highway is restored to original or safe
37 conditions.

38
39 22. Cleared or trimmed vegetation and woody debris shall be disposed of in a legal
40 manner. With the Department's written approval specific to each incident, fallen trees,
41 tree limbs, and other woody debris may be used as part of a bio-technical bank
42 stabilization technique or used to enhance wildlife habitat.

1 Vehicles

2
3 23. Construction vehicles and equipment required for this Project shall be described in
4 the VFR. Vehicle access to streams and wetlands shall be limited to a predetermined
5 ingress and egress corridor on existing roads. If new access to streams or wetlands is
6 necessary, no more than one (1) vehicle route with a maximum width of 12 feet shall be
7 constructed. Vehicle corridors shall be flagged. No equipment shall be allowed to
8 operate in a stream channel that contains water. All other natural areas adjacent to the
9 work site shall be considered an ESA and shall remain off-limits to vehicles and
10 construction equipment.

11
12 24. Only the bucket of the excavator/backhoe may operate in water covered portions
13 of the stream to remove flood-deposited woody debris. At no time shall the main body
14 of the excavator/backhoe enter water covered portions of the stream or pond.

15
16 Pollution

17
18 25. Caltrans and all contractors and subcontractors shall be subject to the pollution
19 protective and other features of Department of Transportation Standard Specifications
20 Section 7-1.01G and Fish and Game Code Sections 5650 and 12015. In addition, all
21 Project-generated debris, building materials, and rubbish shall be removed from the
22 stream and from areas where such materials could be washed into the stream.

23
24 26. Staging and storage areas for equipment, materials, fuels, lubricants, and solvents
25 shall be located outside of the stream channel and banks. Any equipment or vehicles
26 driven and/or operated within or adjacent to the stream shall be checked and
27 maintained daily to prevent leaks of materials that, if introduced to water, could be
28 deleterious to aquatic life. If a spill should occur, cleanup shall begin immediately. The
29 Department shall be notified as soon as possible by Caltrans and shall be consulted
30 regarding further cleanup procedures. To the extent possible, building materials and
31 construction equipment shall be stored in unvegetated or previously disturbed areas.

32
33 27. Raw cement, concrete or washings thereof, asphalt, paint or other coating
34 material, oil or other petroleum products, or any other substances which could be
35 hazardous to fish or wildlife resulting from Project-related activities, shall be prevented
36 from entering the "Waters of the State" and/or contaminating the soil. Use of sacked
37 concrete, asphalt pieces or asphalt containing pavement grindings on the
38 embankments is prohibited.

39
40 28. For test boring, Caltrans shall have a contingency plan and the appropriate
41 equipment at the Project site to handle the unlikely event of a frac-out during the drilling
42 process. A means of containment and clean-up shall remain on standby throughout the
43 drilling process.

1 Siltation/Erosion

2
3 29. Maintenance activities within the Project area shall be completed when the area is
4 dry.

5
6 30. Caltrans ability to minimize turbidity, siltation, and erosion shall be the subject to
7 conditions of the California Regional Water Quality Control Board Basin Plan.

8
9 31. Removal of living and dead vegetation, sediment, and debris in the defined area
10 shall be performed to the extent necessary to ensure proper operation of the culvert,
11 structure, seep or pond. After living and dead vegetation, sediment, and debris are
12 removed the area topography and drainage patterns shall be return to its designed or
13 natural condition.

14
15 32. Erosion control work includes repair of failed rock, sacked concrete, gabions, rip-
16 rap or other such devices. Maintenance activities shall be confined to the failed section
17 and a maximum of 20 linear feet, up and downstream, of the failed area. Repairs shall
18 not exceed the original specifications.

19
20 33. All disturbed soils shall be stabilized to reduce erosion potential, both during and
21 following construction. Erosion control Best Management Practices (BMP's) shall be
22 applied to all disturbed areas.

23
24 Debris Removal/Spoils

25
26 34. Sand, silt, sediment and emergent vegetation removal shall be limited to the
27 stream bottom and no more than 50 linear feet up or downstream of the structure.
28 Sediment removal shall not be deeper than six inches below the existing culvert apron.

29
30 35. Sand, silt, sediment and emergent vegetation removal shall be limited to periods
31 when the stream channel or pond is dry.

32
33 36. All cleared debris shall be removed from the normal high water areas of stream or
34 channel and shall not be redeposited within the flood plain. Spoil sites shall not be
35 located within a stream or wetland, where spoil could be washed back into a stream, or
36 where it covers aquatic or riparian vegetation.

37
38 Fill

39
40 37. Rock, gravel, and/or other materials shall not be imported into or moved within the
41 stream, except as otherwise addressed in this Agreement. Only on-site materials and
42 clean imported fill shall be used to complete the Project. Placement of materials shall
43 be done without operating heavy equipment in the streambed. Fill length, width, and
44 height dimensions shall not exceed those of the original installation or the original
45 naturally occurring topography, contour, and elevation.

1 38. Fill shall be limited to the minimal amount necessary to accomplish the agreed
2 activities. Clean imported fill shall be stored only on previously disturbed ground, and
3 shall not cover riparian vegetation. Excess fill material shall be moved off-site at Project
4 completion.

5
6 Restoration

7
8 39. Excess material, including construction debris, must be removed from the Project
9 site pursuant to Department of Transportation Standard Specifications Section 7-1.13.

10
11 40. Caltrans shall make the final contour of the site match the adjacent slope of the
12 land and provide the appropriate surface water drainage. All areas subject to
13 temporary ground disturbance, including storage and staging areas, temporary roads,
14 pipeline corridors, etc., shall be recontoured, if necessary, and revegetated to promote
15 restoration of the area.

16
17 41. Caltrans assumes responsibility for the restoration of any fish and wildlife habitat
18 which may be impaired or damaged either directly or incidental to the maintenance
19 activities as a result of failure to properly implement or complete the protective features
20 of this Programmatic Stream Maintenance Agreement, or from activities which were not
21 included in Caltrans notification.

22
23 42. Any alteration of existing channel morphology not addressed in this Programmatic
24 Stream Maintenance Agreement shall be subject to Department approval. Detailed
25 plans shall be submitted to the Department for approval and processing.

26
27 43. Structures and associated materials not designed to withstand high seasonal flows
28 shall be removed to areas above the high water mark before such flows occur.

29
30 **RENEWAL:**

31
32 This 1602 Agreement shall expire five (5) years after the date that it is signed by both
33 Caltrans and the Department. If requested by Caltrans prior to expiration, the
34 Department will review the 1602 and determine at its own discretion, whether to renew
35 the Agreement as is, make minor amendments deemed necessary by the Department
36 or requested by Caltrans, or if significant changes are required, develop a new
37 Agreement.

38
39 **AMENDMENT AND TERMINATION:**

40
41 This Stream Alteration Agreement-Routine Maintenance cannot be amended or
42 modified in any way except by a written agreement duly executed by the Department
43 and Caltrans. Any proposal for amendment or modifications must be delivered for
44 review and approval by the Department. At the discretion of the Department,
45 modifications may be deemed minor, requiring an amendment to this Agreement, or

1 substantial requiring the submission of a new notification application. If the later is the
2 case, this Agreement becomes null and void. Failure to notify the Department of
3 changes or subsequent amendments to this Agreement may result in the Department
4 suspending or canceling this Agreement. If Caltrans gives notice to and obtains the
5 agreement of the Department to maintain additional specific facilities on channels or
6 ponds, any such additional facilities shall be added by written amendment to this
7 Stream Alteration Agreement-Routine Maintenance, and all provisions of this Stream
8 Alteration Agreement-Routine Maintenance shall apply.

9
10 This Stream Alteration Agreement-Routine Maintenance may be terminated by either
11 party. Said termination shall become effective 30 days after the party not initiating the
12 termination has been duly notified in writing. This Stream Alteration Agreement-Routine
13 Maintenance expires five (5) years after being signed. The Stream Alteration
14 Agreement-Routine Maintenance shall be renewed automatically by the Department at
15 the expiration of its term unless the Department determines that there has been a
16 significant change in conditions FGC§ 1601(g).

17
18 The Department reserves the right to suspend and/or revoke this Stream Alteration
19 Agreement-Routine Maintenance if the Department determines that the circumstances
20 warrant. The circumstances that could require a reevaluation include, but are not
21 limited to, the following: a) Failure to comply with the terms/conditions of this Stream
22 Alteration Agreement-Routine Maintenance; b) The information provided by Caltrans in
23 support of the Stream Alteration Agreement-Routine Maintenance is determined by the
24 Department to be incomplete, or inaccurate; c) When new information becomes
25 available to the Department representative(s) that was not known when preparing the
26 original terms/conditions of this Stream Alteration Agreement-Routine Maintenance;
27 and d) The activities as described in the notification/ Stream Alteration Agreement-
28 Routine Maintenance has changed, or conditions affecting fish and wildlife resources
29 change.

30 31 **FEES:**

32
33 California Code of regulations, Title 14 (CCR 14), Section 699.5 establishes fees for
34 projects subject to Fish and Game Code 1601. Fees shall be assessed as described in
35 the Fees for *Lake and Streambed Agreement 1602 Routine Maintenance Activities*
36 (public agencies) if performed under the Stream Alteration Agreement-Routine
37 Maintenance with the Department of Fish and Game. **Fees shall be due annually at**
38 **the end of the fiscal year.**

39
40 Renewal fees shall be based upon the fee schedule (CCR14 699.5(f) that is prevailing
41 at the time of payment. Renewal fees will be charged once every five (5) years,
42 coincident with the Stream Alteration Agreement-Routine Maintenance renewal process
43 described in "Change on Conditions". Amendment fees are based upon 50 percent of
44 the original fee (CCR 14 699 5(g)).

1 **ENTIRE AGREEMENT:**

2
3 This Stream Alteration Agreement-Routine Maintenance, along with the exhibits
4 attached hereto, constitutes the entire agreement and understanding between the
5 Department and Caltrans for routine maintenance activities. This Stream Alteration
6 Agreement-Routine Maintenance supersedes all prior and contemporaneous routine
7 activity agreements, representation, understanding, if any, whether oral or written.
8

9 **OTHER ENVIRONMENTAL LAWS, STATUTES, OR REGULATIONS:**

10
11 This Stream Alteration Agreement-Routine Maintenance does not constitute any form of
12 authorization, permit, biological opinion, or compliance with the requirements and
13 provisions of any other statute, regulation, requirement, or ordinance respecting the
14 protection or conservation of fish and wildlife resources. Those statutes include, but
15 are not limited to, the CEQA, the California Endangered Species Act (CESA), or the
16 Federal Endangered Species Act.

17
18 CEQA Compliance: In approving this Stream Alteration Agreement-Routine
19 Maintenance, the Department is independently required to assess the applicability of
20 CEQA. The features of this Stream Alteration Agreement-Routine Maintenance shall
21 be considered as part of the overall Project description.
22

23 As a CEQA Lead Agency the Department shall be responsible for preparing and
24 circulating the appropriate document (Negative Declaration/Environmental Impact
25 Report) and shall make findings and submit a Notice of Determination to the State
26 Clearinghouse. Alternatively, the Department may determine that the Project, as
27 mitigated by the Provisions of this Stream Alteration Agreement-Routine Maintenance,
28 is Exempt from CEQA, in which case, a Notice of Exemption shall be filed, or the
29 Department, as a CEQA Responsible Agency, shall make findings and submit a Notice
30 of Determination to the State Clearinghouse upon signing this Agreement.
31

32 **MONITORING AND REPORTING PROGRAM (MRP):**

33
34 PURPOSE

35
36 The purpose of the MRP is to ensure that the protective measures required by the
37 Department are properly implemented, and to monitor the effectiveness of those
38 measures.
39

40 OBLIGATIONS OF THE OPERATOR

41
42 Caltrans shall have primary responsibility for monitoring compliance with all protective
43 measures included in this Stream Alteration Agreement-Routine Maintenance.
44 Protective measures must be implemented within the time periods indicated in the
45 Agreement and the program described below. Caltrans' designee shall ensure the
46 implementation of all protective measures of the Stream Alteration Agreement-Routine

1 **CONCURRENCE:**
2
3
4
5

6 **APPROVED BY THE CALIFORNIA DEPARTMENT OF FISH AND GAME**
7
8 on 9/12, 2008.

9
10
11 *for* Andrew G. Gordus, Ph.D.
12 W. E. Loudermilk, Regional Manager
13 Central Region
14
15
16
17

18 **ACKNOWLEDGMENT**

19
20 The undersigned acknowledges receipt of this Agreement and, by signing, accepts and
21 agrees to comply with all terms and conditions contained herein. The undersigned also
22 acknowledges that adequate funding shall be made available to implement the
23 measures required by this Agreement.
24

25
26
27
28
29 By: *goh y z*
30 California Department of Transportation

Date: 9-9-08

1 Maintenance, and shall monitor the effectiveness of these measures.

2
3 Caltrans shall submit the following Reports to the Department:

- 4
- 5 • Two (2) weeks prior to scheduled work - Maintenance Notification VRF (Exhibit 1),
6 including Caltrans biological review and general wildlife surveys for each
7 Maintenance Project.
 - 8
 - 9 • If required by the Department as a condition for concurrence- Surveys results and
10 techniques for birds, fish, and/or threatened and endangered species.
11
 - 12 ➤ At the end of each State fiscal year (July 1) - Annual Report summarizing all
13 maintenance activities, including any problems relating to the protective
14 measures of this Agreement, and before and after photographs of all work
15 areas (if not previously submitted). An Annual Report shall be submitted
16 whether or not maintenance work was conducted in that year.

17
18 In addition to the above monitoring and reporting requirements, the Department
19 requires as part of this MRP that Caltrans:

- 20
- 21 • Immediately notify the Department in writing if monitoring reveals that any of the
22 protective measures were not implemented during the period indicated in this
23 program, or if it anticipates that measures will not be implemented within the time
24 period specified.
 - 25
 - 26 • ~~Immediately notify the Department if any of the protective measures are not~~
27 ~~providing the level of protection that is appropriate for the impact that is occurring,~~
28 ~~and recommendations, if any, for alternative protective measures.~~

29
30 **VERIFICATION OF COMPLIANCE:**

31
32 The Department shall verify compliance with protective measures to ensure the
33 accuracy of Caltrans' monitoring and reporting efforts. The Department may, at its sole
34 discretion, review relevant Project documents maintained by Caltrans, interview
35 Caltrans' employees and agents, inspect the Project area, and take other actions to
36 assess compliance with or effectiveness of protective measures for the Project.

1
2
3
4

Exhibit 1

Maintenance Notification VRF

Agreement No 2005-0097-R4
Department of Transportation District 6
Routine Maintenance Activities in Streams and Ponds-
Madera, Fresno, Kings, Tulare, and Kern Counties



**DISTRICT 6 ENVIRONMENTAL
1602 AGREEMENT
MAINTENANCE NOTIFICATION
VERIFICATION REQUEST FORM (VRF)**

| |
|--|
| <input type="checkbox"/> ORIGINAL REQUEST <input type="checkbox"/> REVISION NO. _____ |
| Date of Request |

| | |
|--|---|
| Name of Requestor: Cost Center (EA): Maintenance Region: | Phone Number: Cell Number/ Pager: E-Mail: |
| Project Start Date: | Project End Date: |

Location of Work (County/Route/Postmile):

Name of Stream:

Nearest landmark, crossroad or other identifier:

Latitude/Longitude (in Degrees and Minutes):

| Maintenance Activities | |
|--|--|
| <p style="text-align: center;"><u>Type of Work</u></p> <input type="checkbox"/> Sediment Removal (Amount of material to remove below obvious flow line <input type="checkbox"/> (cubic yards) <input type="checkbox"/> Sediment will be removed with Vactor <input type="checkbox"/> Equipment can work off bank <input type="checkbox"/> Equipment must work from within stream channel <input type="checkbox"/> Hand removal of vegetation <input type="checkbox"/> Tree Thinning <input type="checkbox"/> Tree Removal (By Hand) <input type="checkbox"/> Vegetation removal will include removal of roots <input type="checkbox"/> Herbicide to stump <input type="checkbox"/> Minor Bridge work (cleaning, painting etc.) <input type="checkbox"/> Repair of damaged RSP <input type="checkbox"/> Work will occur in live channel <input type="checkbox"/> Other: | <p style="text-align: center;"><u>Routine Work Requiring Variance</u></p> <input type="checkbox"/> Work will occur outside RMA Dates <input type="checkbox"/> Access to be created down to waterway <input type="checkbox"/> Other: |
| | <p><u>Equipment</u></p> <input type="checkbox"/> Chainsaw/Clippers <input type="checkbox"/> Backhoe/ grade-all <input type="checkbox"/> Excavator <input type="checkbox"/> Vactor <input type="checkbox"/> Other: Bobcat loader. |

Description of Proposed Maintenance Work

Section 2: Biological Information

Area Biologist:
Phone:
E-Mail:

Field Review Conducted By:
Date(s) of Biological Field Review:
 Need CESA/FESA Consultation/ Species:
 Known Sensitive Resources:
 Restrictions on Work:
Habitat Classification:

Comments:

Routine Work 10 days Notice
 Urgent – minimum 2 day notice (describe urgency below)
 Emergency – work to begin immediately (describe emergency below)
Comments:

Section 3: DFG Approval

In accordance with Provisions 1 and 2 of the Agreement between the California Department of Fish and Game (DFG) and the California Department of Transportation (Caltrans) for Routine Maintenance in waterways within/adjacent to State Right of Way for the purposes of protecting and maintaining the state highway system. Caltrans hereby notifies DFG of its intent to perform routine maintenance work within a waterway covered in the Agreement.

DFG Contact Information
Name: Laura Peterson-Diaz
Phone Number: (559)243-4014 x225
E-Mail: lpdiaz@dfg.ca.gov

Date Submitted to DFG by Caltrans:
Date DFG Responded to Caltrans:

Notice of Concurrence
 Work can begin as scheduled
 Work can begin immediately
 Notice of concurrence with conditions (See DFG comments below)
 Work can begin as scheduled
 Work can begin immediately
 Notice of non-concurrence with comments (See DFG Comments below)

1
2
3
4
5

Exhibit 2, 3, 4, 5, 6, and 7

**Illustrations of Specific Exhibits as Described in the Stream Alteration
Maintenance Agreement**

Agreement No. 2005-0097-R4
Department of Transportation District 6
Routine Maintenance Activities in Streams and Ponds-
Madera, Fresno, Kings, Tulare, and Kern Counties

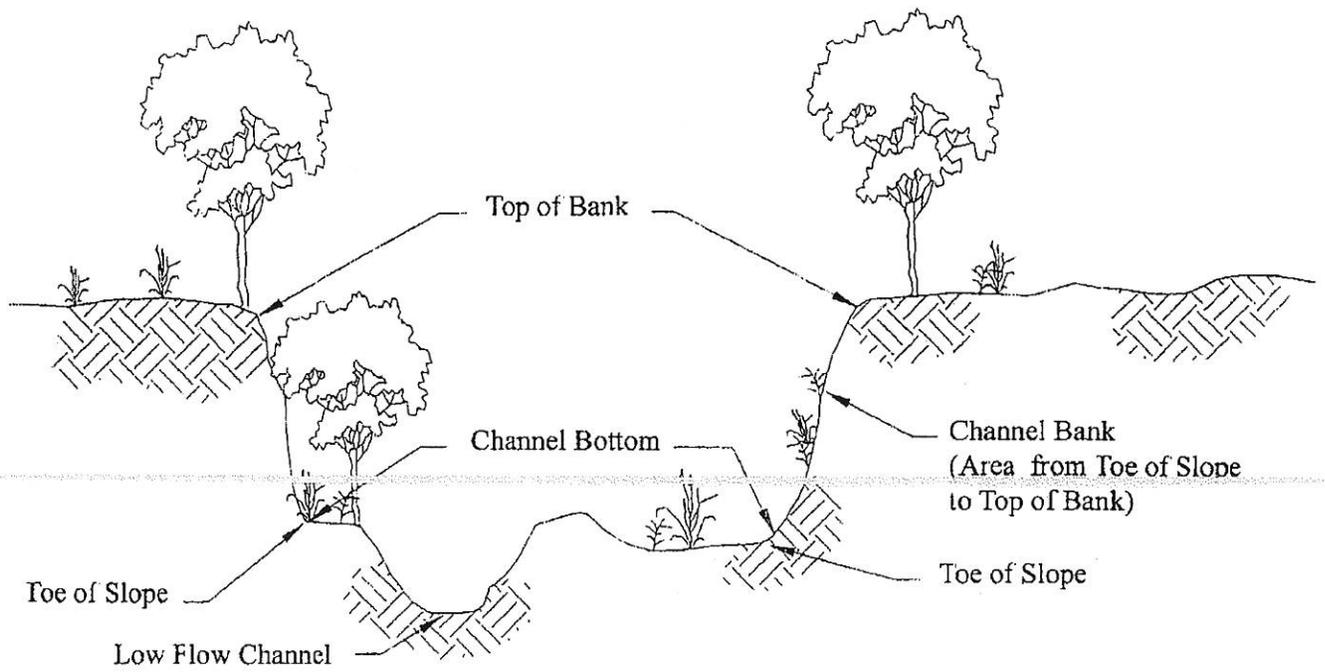


Exhibit 2 : Terms Defining Channel Structure
(Cross-sectional view)

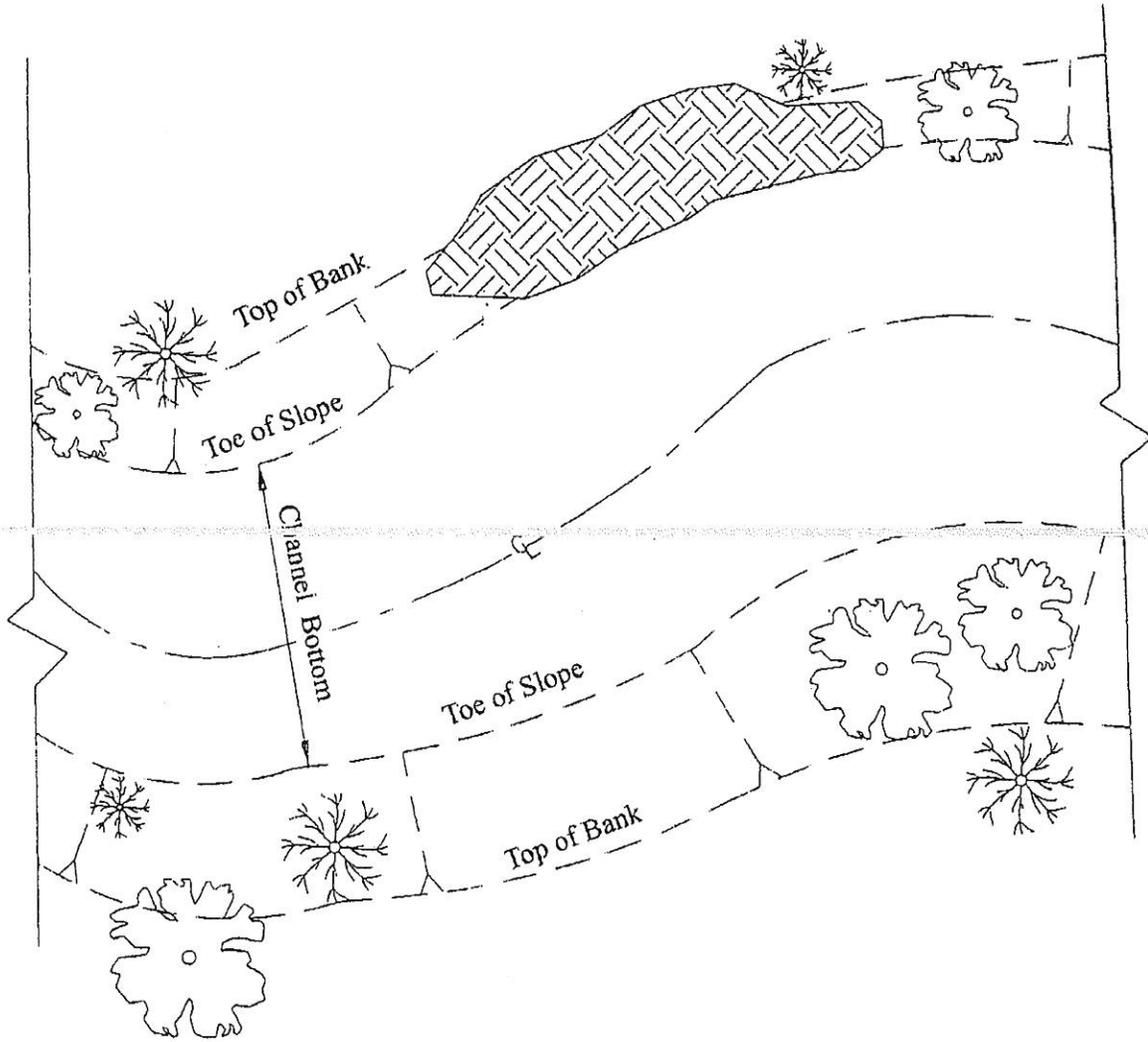


Exhibit 3: Terms Defining Channel Structure (Aerial view)

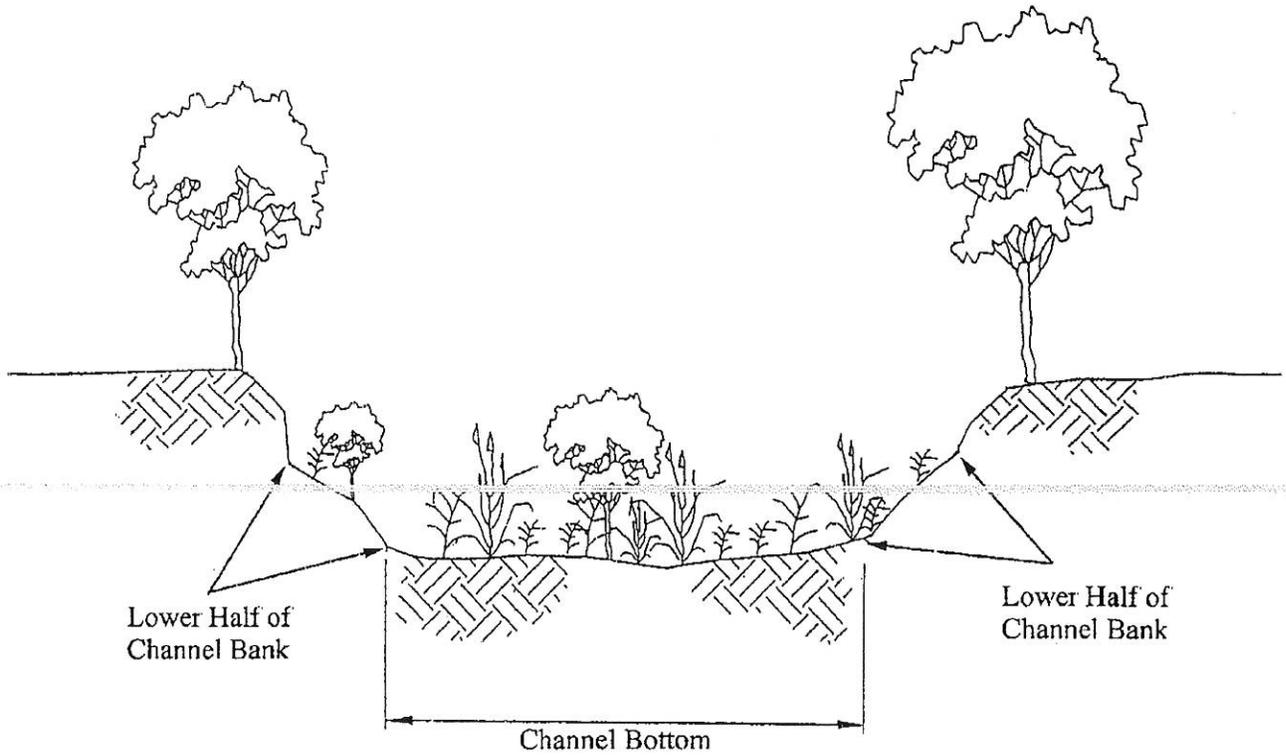


Exhibit 4: Control and Removal of Native Vegetation
Limits of Work are Channel Bottom and Lower Half of Banks

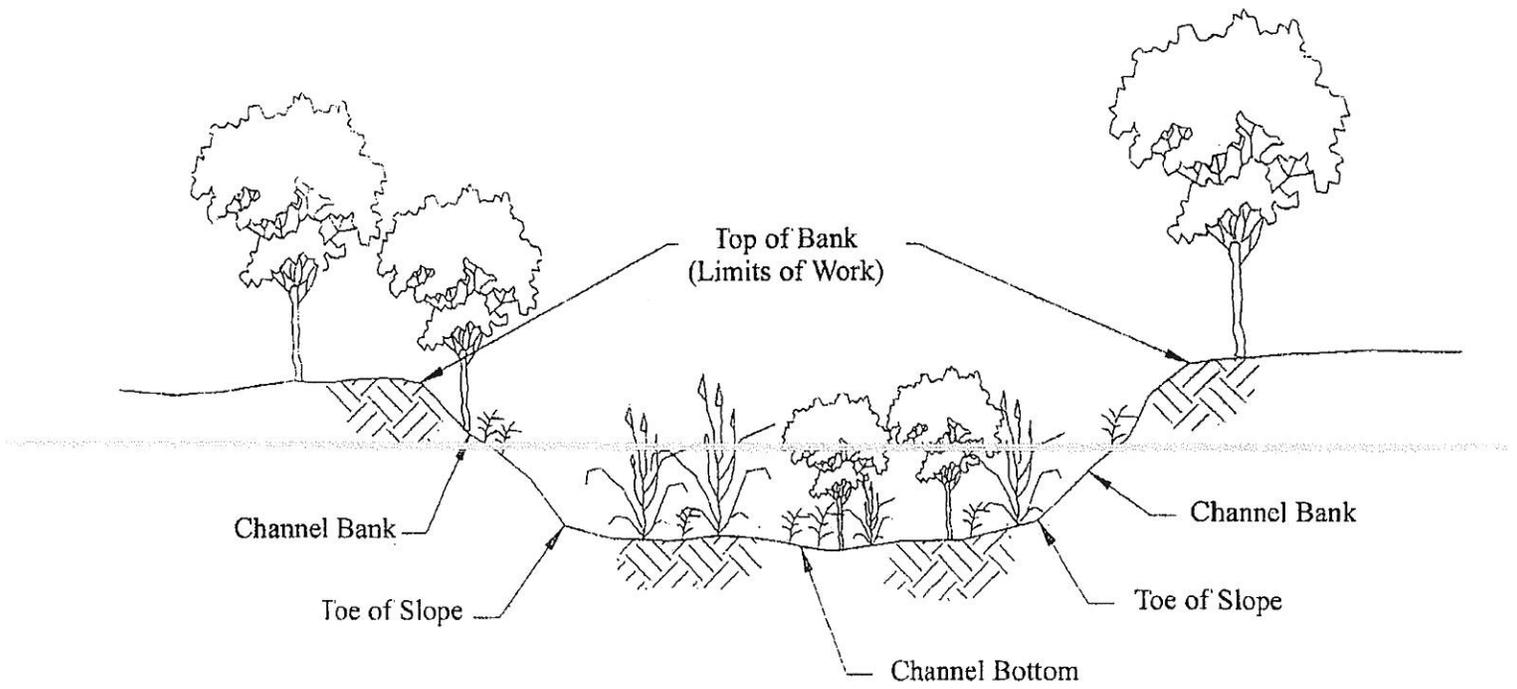


Exhibit 5: Control and Removal of Non-Native Vegetation

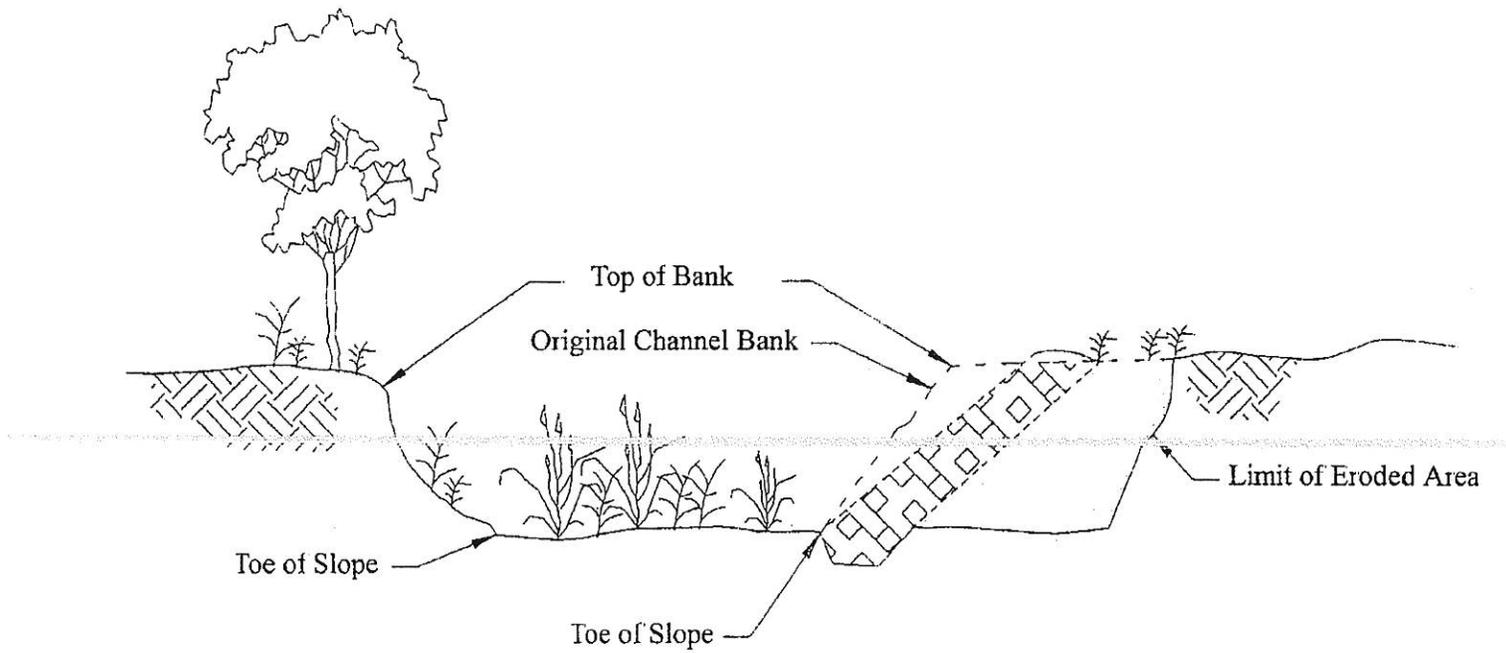


Exhibit 6: Minor Erosion Control Work

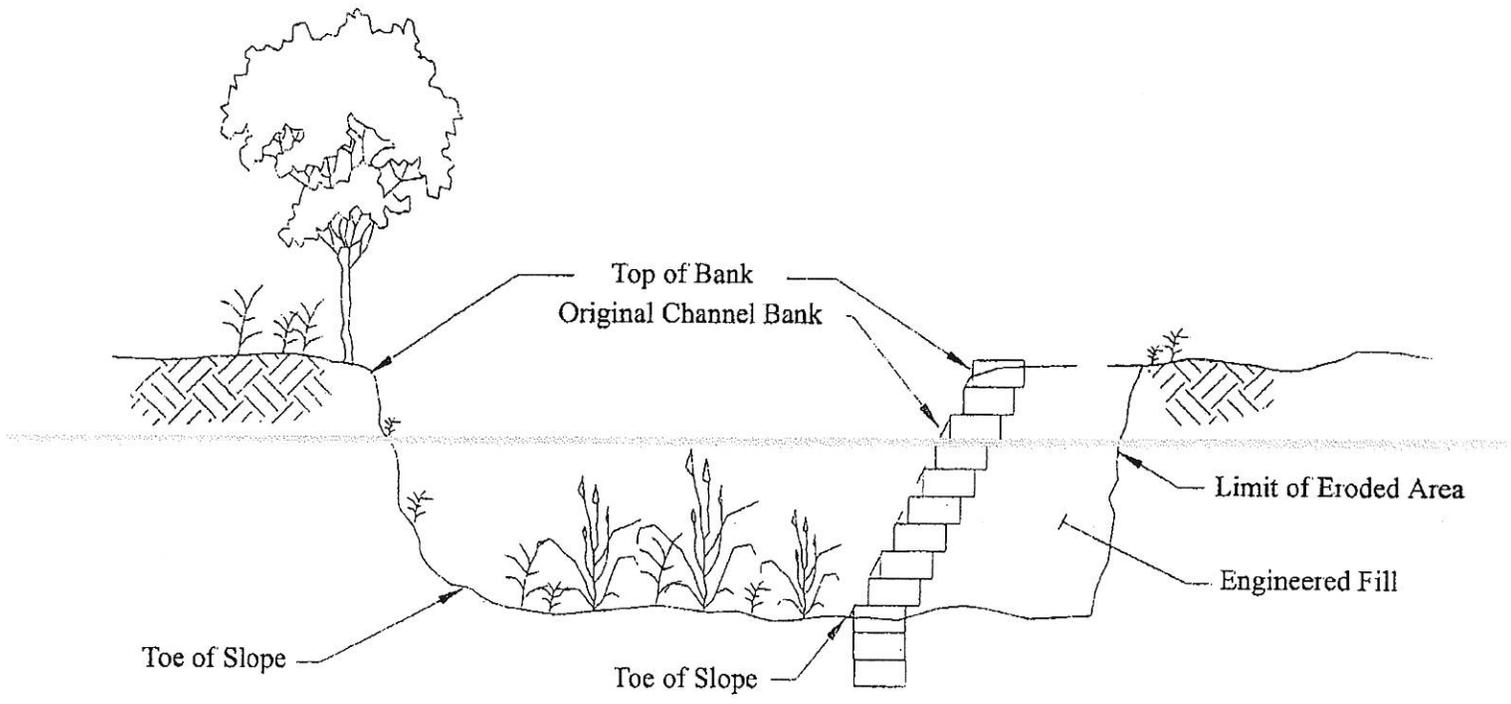
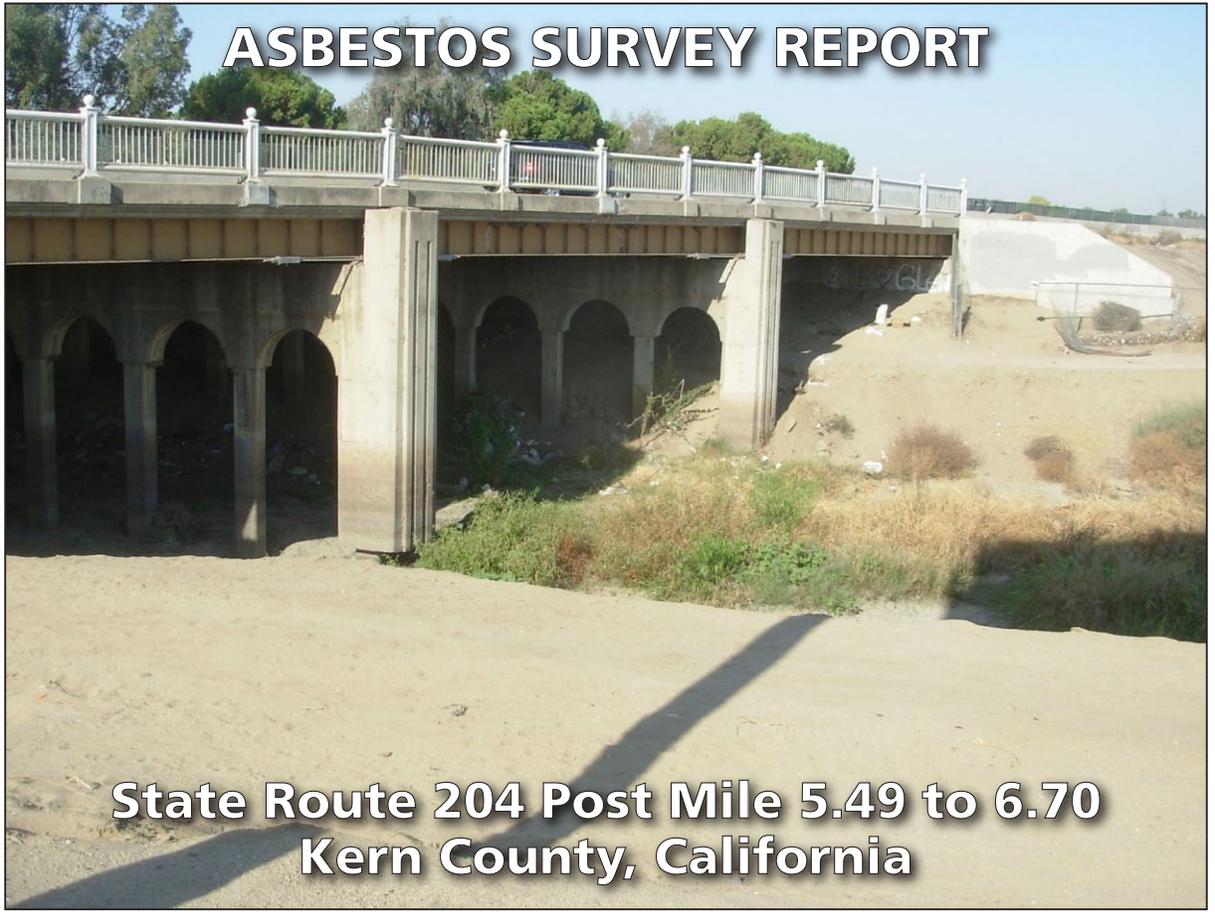


Exhibit 7: Minor Erosion Control Work

ASBESTOS SURVEY REPORT



State Route 204 Post Mile 5.49 to 6.70
Kern County, California

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
ENVIRONMENTAL PLANNING 06/1410
855 M STREET, SUITE 200
FRESNO, CALIFORNIA 93721**



PREPARED BY:

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



**GEOCON PROJECT NO. S9800-01-33
TASK ORDER NO. 33
E-FIS 06-1200-0026-1 (EA 06-0N9601)
CONTRACT NO. 06A1895**

NOVEMBER 2014



Project No. S9800-01-33
November 7, 2014

Shawn Ogletree, Task Order Manager
California Department of Transportation
Environmental Planning 06/1410
855 M St., Suite 200
Fresno, California 93721

Subject: ASBESTOS SURVEY REPORT
STATE ROUTE 204 POST MILE 5.49 TO 6.70
KERN COUNTY, CALIFORNIA
CONTRACT NO. 06A1895, E-FIS 06-1200-0026-1 (EA 06-0N9601)
TASK ORDER NO. 33

Dear Mr. Ogletree:

In accordance with California Department of Transportation (Caltrans) Contract No. 06A1895 and Task Order No. 33, we have performed an asbestos survey of four bridges on Highway 204 in Kern County, California. Our scope of services included surveying the bridges for suspect asbestos-containing materials, collecting bulk samples, and submitting the samples to a laboratory for analysis.

The accompanying report summarizes the services performed and laboratory analysis.

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

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

Sincerely,

GEOCON CONSULTANTS, INC.


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


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



(2 + 2 CDs) Addressee

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FIGURES

1. Vicinity Map
- 2 A-D. Site Plans

PHOTOGRAPHS (1 through 12)

TABLE

1. Summary of Analytical Laboratory Test Results – Asbestos

APPENDIX

- A. Analytical Laboratory Report and Chain-of-custody Documentation

ASBESTOS SURVEY REPORT

1.0 INTRODUCTION

This asbestos survey report was prepared by Geocon Consultants, Inc. under Caltrans Contract No. 06A1895, Task Order No. 33 (TO-33).

1.1 Project Description

The project consists of four bridges (50-0208, 50-0033, 50-0209, and 50-0475) between Post Miles (PM) 5.49 and 6.70 on Highway 204 in Kern County, California. We performed asbestos survey activities at the project location. The project location is depicted on the Vicinity Map, Figure 1, and Site Plans, Figures 2A through D.

1.2 General Objectives

The purpose of the scope of services outlined in TO-33 was to determine the potential presence and quantity of asbestos-containing building materials at the project location prior to various improvements. The information obtained from this investigation will be used by Caltrans for waste profiling, determining California Occupational Safety and Health Administration (Cal/OSHA) applicability, and coordinating asbestos disturbance activities.

2.0 BACKGROUND

2.1 Asbestos

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

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

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

- Friable (can be crumbled, pulverized, or reduced to powder by hand pressure); or
- Category I material that has become friable; or

- Category I material that has been subjected to sanding, grinding, cutting, or abrading; or
- Category II nonfriable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

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

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

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

2.2 Architectural Drawings and Previous Survey Activities

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

3.0 SCOPE OF SERVICES

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2015), performed the asbestos survey at the project location on September 30, 2014.

Suspect ACM were grouped into homogeneous areas with representative samples randomly collected from each. In addition, each potential ACM was evaluated for friability. A total of 34 bulk asbestos samples representing 15 suspect components were collected.

Our procedures for inspection and sampling in accordance with TO-33 are discussed below:

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

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

4.0 INVESTIGATIVE RESULTS

Asbestos was not detected in samples of suspect materials collected during our survey. A summary of the analytical laboratory test results for asbestos is presented on Table 1. Reproductions of the laboratory report and chain-of-custody documentation are presented in Appendix A.

5.0 RECOMMENDATIONS

Since no asbestos was detected in the samples collected during our survey, the Cal/OSHA asbestos standard does not apply for planned activities. In addition, demolition debris would not be considered a California hazardous waste based on asbestos content.

Written notification to the San Joaquin Valley Unified Air Pollution Control District is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not).

6.0 REPORT LIMITATIONS

This asbestos survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos-containing building materials in structures. The survey addressed only the structures identified in Section 1.1. Due to the nature of structure surveys, some asbestos-containing building materials at the project location may not have been identified. Spaces, such as cavities, crawlspaces, voids, and pipe chases, may have been concealed to our investigator. Previous building renovation work may have concealed or covered spaces or materials, or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have

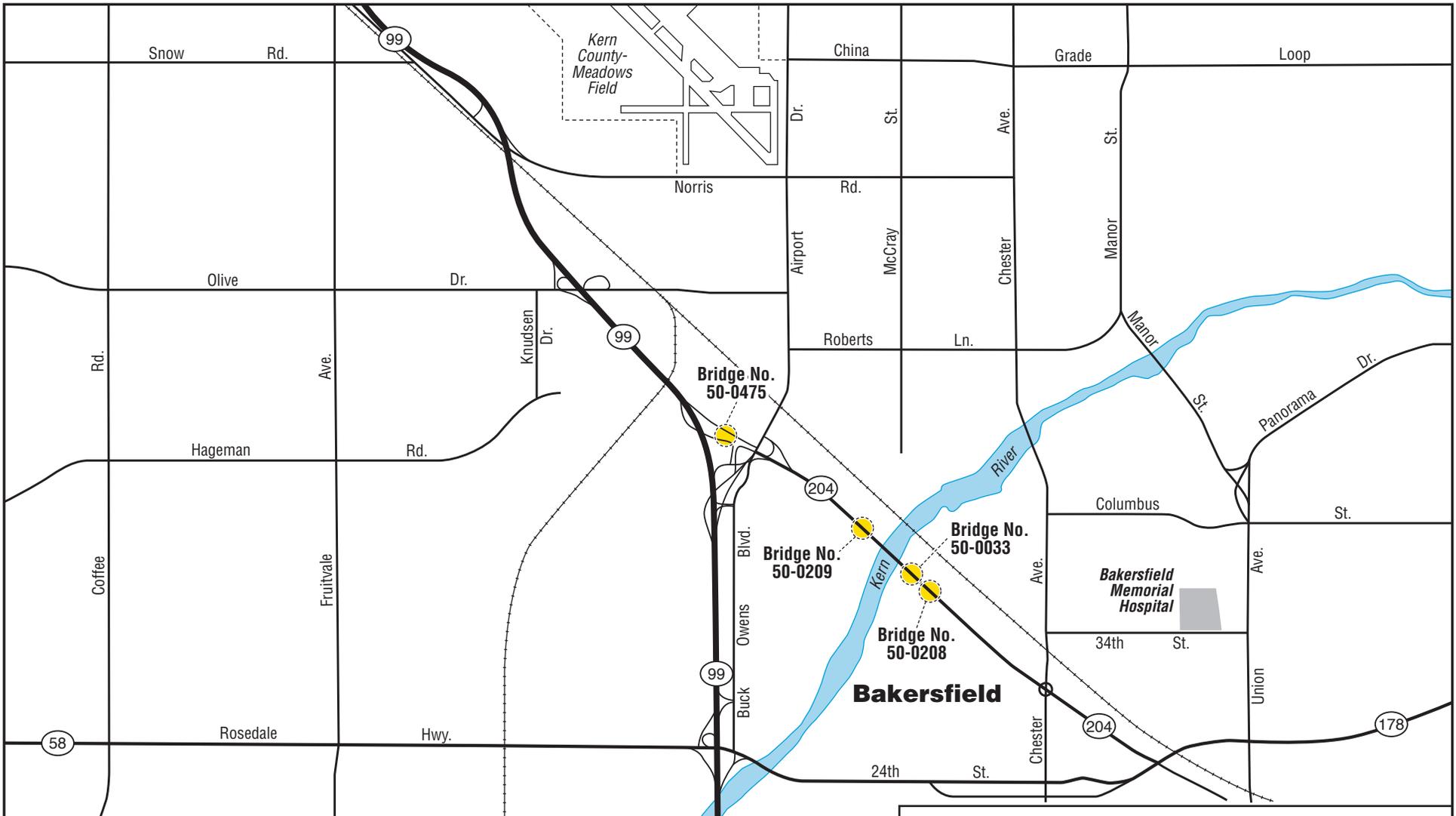
partially replaced asbestos with indistinguishable non-asbestos. Asbestos may exist in areas not accessible or sampled in conjunction with this TO.

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If additional suspect materials are found, they should be treated as hazardous until/unless sampling and analysis indicate otherwise.

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

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

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



GEOCON
CONSULTANTS, INC.

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

State Route 204 Post Mile 5.49 to 6.70

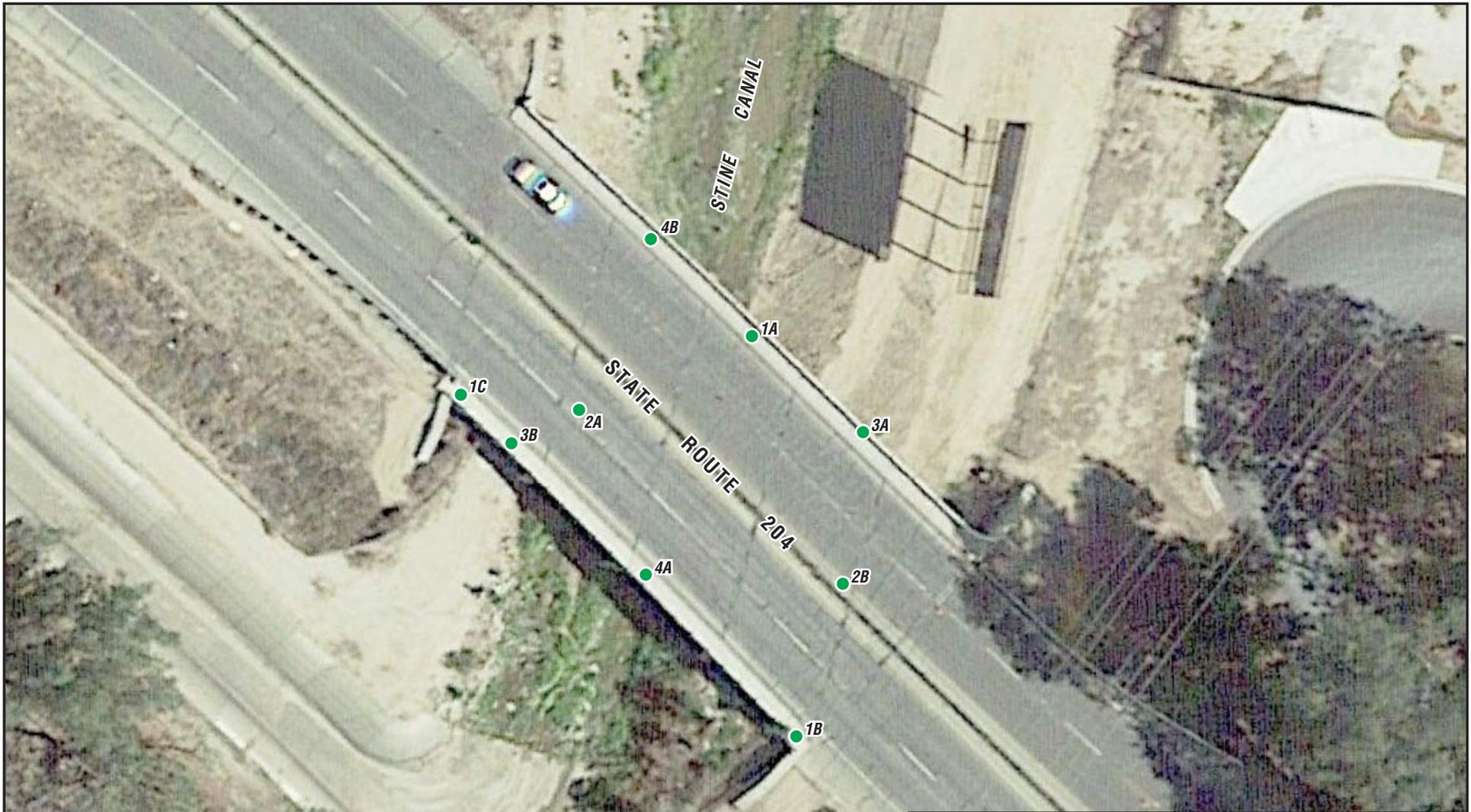
GEOCON Proj. No. S9800-01-33
Task Order No. 33
E-FIS 06-1200-0026-1
EA 06-0N9601
Caltrans Contract 06A1895

VICINITY MAP

November 2014

Figure 1





GEOCON
CONSULTANTS, INC.

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

State Route 204 Post Mile 5.49 to 6.70

GEOCON Proj. No. S9800-01-33
Task Order No. 33
E-FIS 06-1200-0026-1
EA 06-0N9601
Caltrans Contract 06A1895

SITE PLAN
Stine Canal
Br. 50-0208

November 2014

Figure 2A

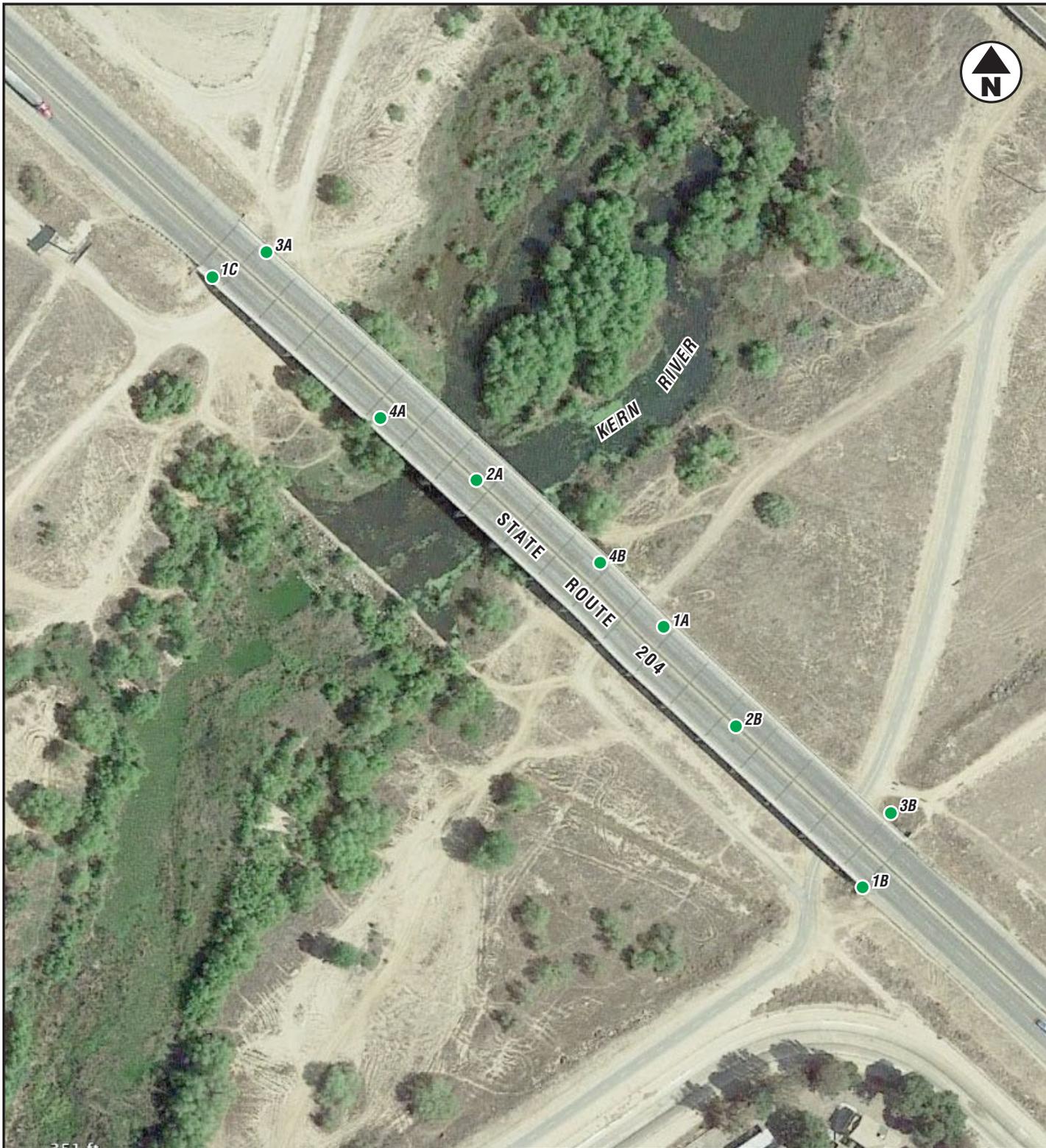


0 40

Scale in Feet

LEGEND:

- Approximate Asbestos Sample Location



LEGEND:

- Approximate Asbestos Sample Location



GEOCON
CONSULTANTS, INC.

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

State Route 204 Post Mile 5.49 to 6.70

GEOCON Proj. No. S9800-01-33
Task Order No. 33
E-FIS 06-1200-0026-1
EA 06-0N9601
Caltrans Contract 06A1895

SITE PLAN
Kern River
Br. 50-0033

November 2014

Figure 2B



LEGEND:

- Approximate Asbestos Sample Location



GEOCON
CONSULTANTS, INC.

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

State Route 204 Post Mile 5.49 to 6.70

GEOCON Proj. No. S9800-01-33
Task Order No. 33
E-FIS 06-1200-0026-1
EA 06-0N9601
Caltrans Contract 06A1895

SITE PLAN
Calloway Canal
Br. 50-0209

November 2014

Figure 2C



LEGEND:

- Approximate Asbestos Sample Location



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

State Route 204 Post Mile 5.49 to 6.70

Kern County,
California

GEOCON Proj. No. S9800-01-33

Task Order No. 33

SITE PLAN
Airport Drive UC
Br. 50-0475

November 2014

Figure 2D



Photo 1 – Stine Canal Bridge (50-0208) at PM 5.49 on Highway 204 in Kern County, California



Photo 2 – Bridge 50-0208 abutment, girders, and columns



Photo 3 – Bridge 50-0208 deck, sidewalk, and barrier systems



GEOCON
CONSULTANTS, INC.

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

PHOTOGRAPHS 1, 2, & 3

State Route 204 Post Mile 5.49 to 6.70

Kern County, California

S9800-01-33

November 2014



Photo 4 – Kern River Bridge (50-0033) at PM 5.61 on Highway 204 in Kern County, California



Photo 5 – Bridge 50-0033 abutment, girders, and pier



Photo 6 – Bridge 50-0033 deck, sidewalk, and barrier systems



GEOCON
CONSULTANTS, INC.

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

PHOTOGRAPHS 4, 5, & 6

State Route 204 Post Mile 5.49 to 6.70

Kern County, California

S9800-01-33

November 2014



Photo 7 – Calloway Canal Bridge (50-0209) at PM 5.90 on Highway 204 in Kern County, California



Photo 8 – Bridge 50-0209 abutment, girders, and columns



Photo 9 – Bridge 50-0209 deck, sidewalk, and barrier systems



GEOCON
CONSULTANTS, INC.

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

PHOTOGRAPHS 7, 8, & 9

State Route 204 Post Mile 5.49 to 6.70

Kern County, California

S9800-01-33

November 2014



Photo 10 – Airport Drive Undercrossing (50-0475) at PM 6.70 on Highway 204 in Kern County, California



Photo 11 – Bridge 50-0475 abutment, span, and expansion joint



Photo 12 – Bridge 50-0475 deck and barrier systems



GEOCON
CONSULTANTS, INC.

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

PHOTOGRAPHS 10, 11, & 12

State Route 204 Post Mile 5.49 to 6.70

Kern County, California

S9800-01-33

November 2014

TABLE 1
SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS - ASBESTOS
STATE ROUTE 204 POST MILE 5.49 TO 6.70
CALTRANS CONTRACT 06A1895, TASK ORDER NO. 33, E-FIS 06-1200-0026-1 (EA 06-0N9601)
KERN COUNTY, CALIFORNIA

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

| Bridge No. | Sample Group No. | Material Description | Approximate Quantity | Friable | Site Photos | Asbestos Content |
|------------|------------------|--------------------------------|----------------------|---------|---------------|------------------|
| 50-0208 | 1 | Concrete | NA | NA | 1 through 3 | ND |
| | 2 | Asphalt | NA | NA | | ND |
| | 3 | Textured paint (girders) | NA | NA | | ND |
| | 4 | Textured paint (barrier rails) | NA | NA | | ND |
| 50-0033 | 1 | Concrete | NA | NA | 4 through 6 | ND |
| | 2 | Asphalt | NA | NA | | ND |
| | 3 | Textured paint (girders) | NA | NA | | ND |
| | 4 | Textured paint (barrier rails) | NA | NA | | ND |
| 50-0209 | 1 | Concrete | NA | NA | 7 through 9 | ND |
| | 2 | Asphalt | NA | NA | | ND |
| | 3 | Textured paint (girders) | NA | NA | | ND |
| | 4 | Textured paint (barrier rails) | NA | NA | | ND |
| 50-0475 | 1 | Concrete | NA | NA | 10 through 12 | ND |
| | 2 | Asphalt | NA | NA | | ND |
| | 3 | Joint fill material | NA | NA | | ND |

Notes:

NA = Not applicable (no asbestos detected)

ND = Not detected

APPENDIX

A



EMSL Analytical, Inc

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

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com>

sanleandrolab@emsl.com

| | |
|-------------|-------------|
| EMSL Order: | 091415156 |
| CustomerID: | GECN21 |
| CustomerPO: | S9800-01-33 |
| ProjectID: | 06A1895 |

Attn: **Dave Watts**
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 10/03/14 9:00 AM
Analysis Date: 10/15/2014
Collected: 9/30/2014

Project: **S9800-01-33 KERN 204**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---|-------------|--|--------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 0208-1A-Concrete <i>091415156-0001</i> | | Gray/Various Non-Fibrous Homogeneous | | 60% Quartz 40% Non-fibrous (other) | None Detected |
| 0208-1B-Concrete <i>091415156-0002</i> | | Gray/Various Non-Fibrous Homogeneous | | 60% Quartz 40% Non-fibrous (other) | None Detected |
| 0208-1C-Concrete <i>091415156-0003</i> | | Gray/Various Non-Fibrous Homogeneous | | 60% Quartz 40% Non-fibrous (other) | None Detected |
| 0208-2A-Asphalt <i>091415156-0004</i> | | Gray/Black Non-Fibrous Homogeneous | | 60% Quartz 30% Matrix 10% Non-fibrous (other) | None Detected |
| 0208-2B-Asphalt <i>091415156-0005</i> | | Gray/Black Non-Fibrous Homogeneous | | 60% Quartz 30% Matrix 10% Non-fibrous (other) | None Detected |
| 0208-3A-Paint <i>091415156-0006</i> | GIRDERS | Brown/Red Non-Fibrous Homogeneous | | 40% Ca Carbonate 60% Non-fibrous (other) | None Detected |
| 0208-3B-Paint <i>091415156-0007</i> | GIRDERS | Brown/Red Non-Fibrous Homogeneous | | 40% Ca Carbonate 60% Non-fibrous (other) | None Detected |
| 0208-4A-Paint <i>091415156-0008</i> | RAILING | White/Red Non-Fibrous Homogeneous | | 40% Ca Carbonate 60% Non-fibrous (other) | None Detected |

Analyst(s)

Sam Evans (34)



Derrick Tanner, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 10/16/2014 11:17:43



EMSL Analytical, Inc

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

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sanleandrolab@emsl.com

| | |
|-------------|-------------|
| EMSL Order: | 091415156 |
| CustomerID: | GECN21 |
| CustomerPO: | S9800-01-33 |
| ProjectID: | 06A1895 |

Attn: **Dave Watts**
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 10/03/14 9:00 AM
Analysis Date: 10/15/2014
Collected: 9/30/2014

Project: **S9800-01-33 KERN 204**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---|-------------|---|--------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 0208-4B-Paint <i>091415156-0009</i> | RAILING | White/Red Non-Fibrous Homogeneous | | 40% Ca Carbonate 60% Non-fibrous (other) | None Detected |
| 0033-1A-Concrete <i>091415156-0010</i> | | Gray/Various Non-Fibrous Homogeneous | | 70% Quartz 30% Non-fibrous (other) | None Detected |
| 0033-1B-Concrete <i>091415156-0011</i> | | Gray/Various Non-Fibrous Homogeneous | | 70% Quartz 30% Non-fibrous (other) | None Detected |
| 0033-1C-Concrete <i>091415156-0012</i> | | Gray/Various Non-Fibrous Homogeneous | | 70% Quartz 30% Non-fibrous (other) | None Detected |
| 0033-2A-Asphalt <i>091415156-0013</i> | | Gray/Black Non-Fibrous Homogeneous | | 50% Quartz 20% Matrix 30% Non-fibrous (other) | None Detected |
| 0033-2B-Asphalt <i>091415156-0014</i> | | Gray/Black Non-Fibrous Homogeneous | | 50% Quartz 20% Matrix 30% Non-fibrous (other) | None Detected |
| 0033-3A-Paint <i>091415156-0015</i> | GIRDERS | Brown/White/Red Non-Fibrous Homogeneous | | 40% Ca Carbonate 60% Non-fibrous (other) | None Detected |
| 0033-3B-Paint <i>091415156-0016</i> | GIRDERS | Brown/Red Non-Fibrous Homogeneous | | 40% Ca Carbonate 60% Non-fibrous (other) | None Detected |

Analyst(s) _____
Sam Evans (34)


Derrick Tanner, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 10/16/2014 11:17:43



EMSL Analytical, Inc

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

Phone/Fax: (510) 895-3675 / (510) 895-3680

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sanleandrolab@emsl.com

| | |
|-------------|-------------|
| EMSL Order: | 091415156 |
| CustomerID: | GECN21 |
| CustomerPO: | S9800-01-33 |
| ProjectID: | 06A1895 |

Attn: **Dave Watts**
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 10/03/14 9:00 AM
Analysis Date: 10/15/2014
Collected: 9/30/2014

Project: **S9800-01-33 KERN 204**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---|-------------|--|--------------|---|----------------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 0033-4A-Paint <i>091415156-0017</i> | RAILING | White/Red Non-Fibrous Homogeneous | | 40% Ca Carbonate 60% Non-fibrous (other) | None Detected |
| 0033-4B-Paint <i>091415156-0018</i> | RAILING | White/Red Non-Fibrous Homogeneous | | 40% Ca Carbonate 60% Non-fibrous (other) | None Detected |
| 0209-1A-Concrete <i>091415156-0019</i> | | Gray/Various Non-Fibrous Homogeneous | | 60% Quartz 40% Non-fibrous (other) | None Detected |
| 0209-1B-Concrete <i>091415156-0020</i> | | Gray/Various Non-Fibrous Homogeneous | | 60% Quartz 40% Non-fibrous (other) | None Detected |
| 0209-1C-Concrete <i>091415156-0021</i> | | Gray/Various Non-Fibrous Homogeneous | | 60% Quartz 40% Non-fibrous (other) | None Detected |
| 0209-2A-Asphalt <i>091415156-0022</i> | | Gray/Black Non-Fibrous Homogeneous | | 60% Quartz 20% Matrix 20% Non-fibrous (other) | None Detected |
| 0209-2B-Asphalt <i>091415156-0023</i> | | Gray/Black Non-Fibrous Homogeneous | | 60% Quartz 30% Matrix 10% Non-fibrous (other) | None Detected |
| 0209-3A-Paint <i>091415156-0024</i> | GIRDERS | White/Red Non-Fibrous Homogeneous | | 60% Ca Carbonate 40% Non-fibrous (other) | None Detected |

Analyst(s) _____
Sam Evans (34)


Derrick Tanner, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 10/16/2014 11:17:43



EMSL Analytical, Inc

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Phone/Fax: (510) 895-3675 / (510) 895-3680

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sanleandrolab@emsl.com

| | |
|-------------|-------------|
| EMSL Order: | 091415156 |
| CustomerID: | GECN21 |
| CustomerPO: | S9800-01-33 |
| ProjectID: | 06A1895 |

Attn: **Dave Watts**
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 10/03/14 9:00 AM
Analysis Date: 10/15/2014
Collected: 9/30/2014

Project: **S9800-01-33 KERN 204**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---|-------------|---|--------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 0209-3B-Paint <i>091415156-0025</i> | GIRDERS | White/Red Non-Fibrous Homogeneous | | 60% Ca Carbonate 40% Non-fibrous (other) | None Detected |
| 0209-4A-Paint <i>091415156-0026</i> | RAILING | White/Red Non-Fibrous Homogeneous | | 70% Ca Carbonate 30% Non-fibrous (other) | None Detected |
| 0209-4B-Paint <i>091415156-0027</i> | RAILING | White/Red Non-Fibrous Homogeneous | | 70% Ca Carbonate 30% Non-fibrous (other) | None Detected |
| 0475-1A-Concrete <i>091415156-0028</i> | | Gray/Various Non-Fibrous Homogeneous | | 40% Quartz 60% Non-fibrous (other) | None Detected |
| 0475-1B-Concrete <i>091415156-0029</i> | | Gray/Various Non-Fibrous Homogeneous | | 40% Quartz 60% Non-fibrous (other) | None Detected |
| 0475-1C-Concrete <i>091415156-0030</i> | | Gray/Various Non-Fibrous Homogeneous | | 40% Quartz 60% Non-fibrous (other) | None Detected |
| 0475-2A-Asphalt <i>091415156-0031</i> | | Various/Black Non-Fibrous Homogeneous | | 60% Quartz 20% Matrix 20% Non-fibrous (other) | None Detected |
| 0475-2B-Asphalt <i>091415156-0032</i> | | Various/Black Non-Fibrous Homogeneous | | 60% Quartz 20% Matrix 20% Non-fibrous (other) | None Detected |

Analyst(s) _____
Sam Evans (34)


Derrick Tanner, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 10/16/2014 11:17:43



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| | |
|-------------|-------------|
| EMSL Order: | 091415156 |
| CustomerID: | GECN21 |
| CustomerPO: | S9800-01-33 |
| ProjectID: | 06A1895 |

Attn: **Dave Watts**
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 10/03/14 9:00 AM
Analysis Date: 10/15/2014
Collected: 9/30/2014

Project: **S9800-01-33 KERN 204**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|-----------------------------|-------------|---------------|---------------|-------------------------|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 0475-3A-Joint Fill Material | | Brown Fibrous | 90% Cellulose | 10% Non-fibrous (other) | None Detected |
| 091415156-0033 | | Homogeneous | | | |
| 0475-3B-Joint Fill Material | | Brown Fibrous | 90% Cellulose | 10% Non-fibrous (other) | None Detected |
| 091415156-0034 | | Homogeneous | | | |

Analyst(s) _____
Sam Evans (34)


Derrick Tanner, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, WA C884

Initial report from 10/16/2014 11:17:43



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

#091415156

CT - 06A1895

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

PHONE: (510) 895-3675

FAX: (510) 895-3680

| | | | |
|--|---------------------------|--|---------------------|
| Company: GEDCON | | EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments** | |
| Street: 6671 BRISA ST | | Third Party Billing requires written authorization from third party | |
| City: LIVERMORE | State/Province: CA | Zip/Postal Code: 94550 | Country: USA |
| Report To (Name): D. WATTS | | Telephone #: 925-371-5900 | |
| Email Address: WATTS@GEDCONINC.COM | | Fax #: 925-371-5915 | Purchase Order: |
| Project Name/Number: 59800-01-33 (KERN 204) | | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email | |
| U.S. State Samples Taken: CA | | CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt | |

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 hr through 6 hr, 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"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA | TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 | 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) |
| PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%) | TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 | Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique |
| <input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group | | Other: <input type="checkbox"/> |
| <input type="checkbox"/> Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8µm <input type="checkbox"/> 0.45µm | | |

Samplers Name: **D. WATTS** Samplers Signature: *[Signature]*

| Sample # | Sample Description | Volume/Area (Air) HA # (Bulk) | Date/Time Sampled |
|--------------|--------------------------|----------------------------------|----------------------|
| 0208 -1A/B/C | CONCRETE | NO | 9/30/14 |
| - 2A/B | ASPHALT | | |
| - 3A/B | TEXTURED PAINT (GIRDERS) | | |
| - 4A/B | " " (RAILINGS) | | |
| 0033 -1A/B/C | CONCRETE | NO | 9/30/14 |
| - 2A/B | ASPHALT | | |
| - 3A/B | TEXTURED PAINT (GIRDERS) | | |
| - 4A/B | " " (RAILINGS) | | |

Client Sample # (s): **1** Total # of Samples: **34**

Relinquished (Client): **WATTS** Date: **9/30/14** Time: **1800**

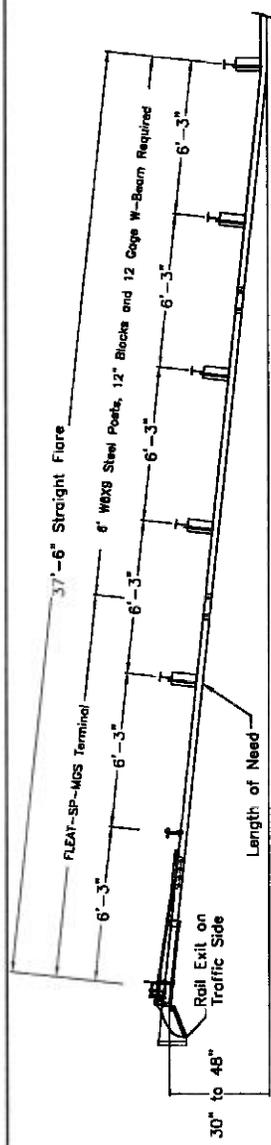
Received (Lab): **FED EX** Date: **9/30/14** Time: **1800**

Comments/Special Instructions: **CALTRANS CONTRACT 06A1895**

| ITEM QTY | BILL OF MATERIALS | ITEM NO. |
|-------------------------------------|--|-----------|
| A 1 | IMPACT HEAD | F 3000 |
| B 1 | W-BEAM GUARDRAIL END SECTION, 12 Ga. | MS-87103 |
| C 1 | FIRST POST TOP (EXTRA) (Tube) | THP1A |
| D 1 | FIRST POST BOTTOM (6" Wx15) | THP1B |
| E 1 | SECOND POST ASSEMBLY TOP | UHP2A |
| F 1 | SECOND POST ASSEMBLY BOTTOM | HP2B |
| G 1 | BEARING PLATE | E760 |
| H 1 | CABLE ANCHOR BOX | 5760 |
| J 1 | BCT CABLE ANCHOR ASSEMBLY | E770 |
| HARDWARE (ALL DIMENSIONS IN INCHES) | | |
| a 2 | 5/16 x 1 HEX BOLT GRD 5 | BS160104A |
| b 4 | 5/16 WASHER | W051B |
| c 2 | 5/16 HEX NUT | N051B |
| d 9 | 5/8 Dia. x 1 1/4 SPLICE BOLT (POST #2) | BS60122 |
| e 1 | 5/8 Dia. x 9 HEX BOLT GRD 5 | BS6004A |
| f 3 | 5/8 WASHER | W050 |
| g 10 | 5/8 Dia. H.G.R. NUT | N050 |
| h 1 | 3/4 Dia. x 8 1/2 HEX BOLT GRD A49 | BS40854A |
| i 1 | 3/4 Dia. HEX NUT | N030 |
| k 2 | 1 ANCHOR CABLE HEX NUT | N100 |
| l 2 | 1 ANCHOR CABLE WASHER | W100 |
| m 8 | CABLE ANCHOR BOX SHOULDER BOLT | SS58A |
| n 8 | 1/2 A325 STRUCTURAL NUT | N055A |
| o 16 | 1 1/18 OD x 9/18 ID A325 STR. WASHER | W050A |

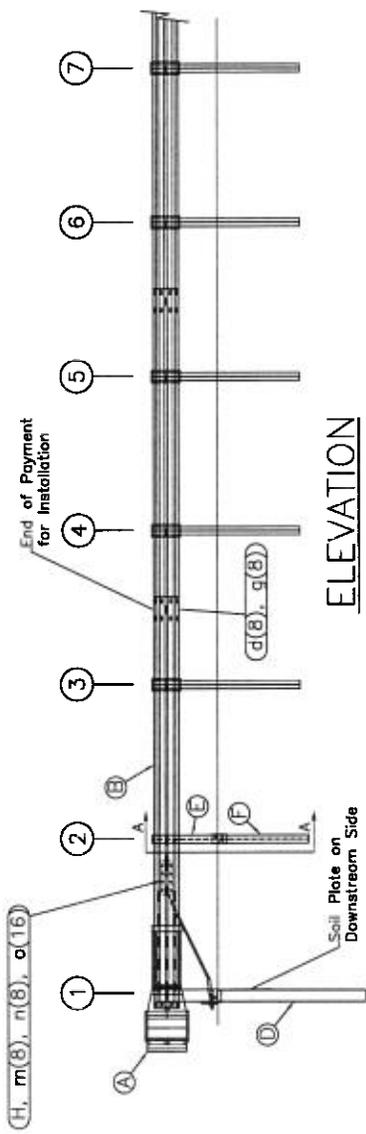
GENERAL NOTES:

- All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
- The lower sections of the Posts 1&2 shall not protrude more than 4 in above the ground (measured along a 5' cone). Site grading may be necessary to meet this requirement.
- The lower sections of the hinged posts should not be driven with the upper post attached. If the post is placed in a drilled hole, the backfill material must be satisfactorily compacted to prevent settlement.
- When competent rock is encountered, a 12" Ø post hole, 20 in. deep cored into the rock surface may be used if approved by the engineer for post 1. Granular material will be placed in the bottom of the hole, approximately 2.5' deep to provide drainage. The first post can be field cut to length, placed in the hole and backfilled with suitable backfill. The soil plate may be trimmed if required.
- The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.

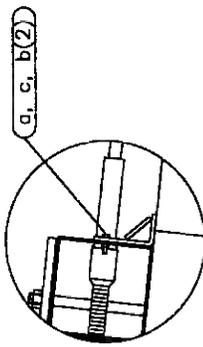


PLAN

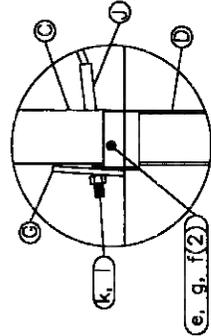
TRAFFIC →



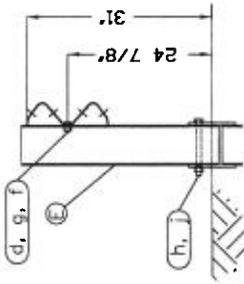
ELEVATION



Impact Head Connection Detail



Post #1 Connection Detail



SECTION A-A
Post #2



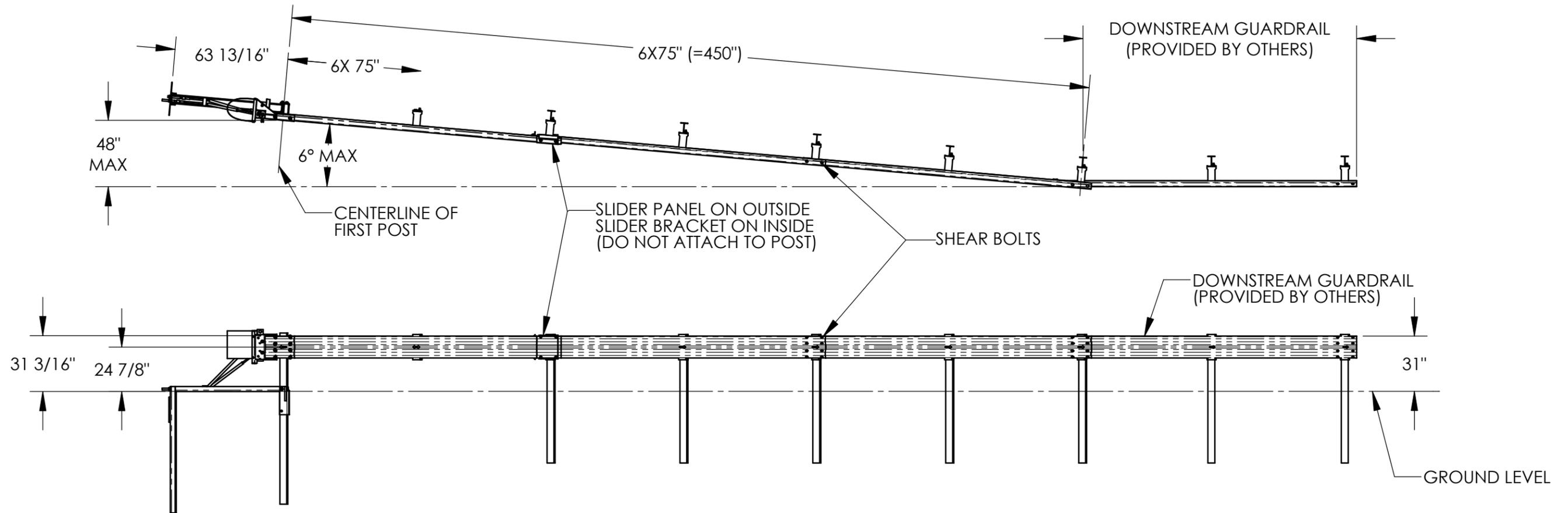
Road Systems, Inc.
Big Spring, TX
Phone: 432-263-2435
or Phone: 330-346-0721

FLEAT-SP-MGS Terminal
Midwest Guardrail System
31" Top of Rail

| | |
|--------------------------------------|--------------------------|
| Drawing Name: FLT-SP-S-MGS | Scale: None |
| Sheet: 1 | Date: 02/24/10 |
| By: JRR | Rev: 0 |

NOTES: UNLESS OTHERWISE SPECIFIED.

1. X-TENSION SYSTEM TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
2. SYSTEM SHOWN USING STEEL WIDE FLANGE POST WITH COMPOSITE OR PLASTIC BLOCKOUTS. POST 2 MUST BE A BREAKAWAY STYLE POST CRIMPED (AS SHOWN).
3. SYSTEM MAY ALSO USE TIMBER CRT POSTS WITH TIMBER BLOCKOUTS OR STEEL POSTS WITH TIMBER BLOCKOUTS.



| | | | | | | | |
|--|--|--|--|--------------|--|---|--|
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| APPROVALS | | INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-1994 | | TITLE | | 31" X-TENSION GUARDRAIL SYSTEM FLARED CALTRANS | |
| DRAWN BY: NMB | | THIRD ANGLE PROJECTION | | SIZE B | | DWG NO. BSI-1405049-AP | |
| DRAWN DATE: 5/28/14 | | | | REV 0 | | ECN# | |
| APPR'D BY: | | DO NOT SCALE DRAWING | | DATE 5/28/14 | | SCALE 1:60 | |
| APPR'D DATE: | | REV | | ECN# | | SHEET 1 OF 1 | |