

FOR CONTRACT NO.: 01-464104

INFORMATION HANDOUT

MATERIALS INFORMATION

NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

ROUTE: 01-DN-101,197,199-VAR

NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

State Routes 101, 169, 197, and 199
Del Norte County, California

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 1
ENVIRONMENTAL ENGINEERING OFFICE
1656 UNION STREET
EUREKA, CALIFORNIA 95501**



PREPARED BY:

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



**GEOCON PROJECT NO. S9300-06-49
TASK ORDER NO. 49, EA 01-464101**

OCTOBER 2008



Project No. S9300-06-49
October 15, 2008

Mr. Steve Werner
California Department of Transportation – District I
Environmental Engineering Office
1656 Union Street
Eureka, California 95501

Subject: DEL NORTE CORRIDOR STUDY
STATE ROUTE 101, 167, 197, AND 199
DEL NORTE COUNTY, CALIFORNIA
CONTRACT NO. 03A1368, TASK ORDER NO. 49, EA 01-464101
SUPPLEMENTAL NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION
REPORT

Dear Mr. Werner:

In accordance with California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order No. (TO) 49, and Expense Authorization 01-464101, we have performed environmental engineering services for the project site. The site consists of the Caltrans right-of-way along State Routes 101, 167, 197, and 199 in Del Norte County, California. The accompanying report summarizes the services performed including the analysis of 38 soil samples for naturally occurring asbestos and the incorporation of 16 soil samples analyzed for asbestos under TO No. 10. These analyses are meant to provide supplemental results to those performed under previous TO No. 10.

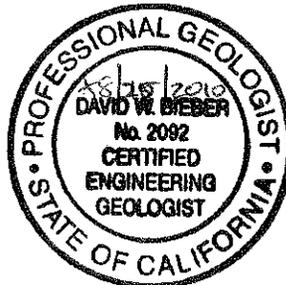
The contents of this report reflect the views of the author, who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute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

David W. Bieber, PGP, CEG, CHG
Senior Geologist



Ian M. Stevenson, PG
Project Geologist

IMS:DWB:jaj

(5 + 3CD) Addressee

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SUPPLEMENTAL NATURALLY OCCURRING ASBESTOS SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Naturally Occurring Asbestos (NOA) Site Investigation Report was prepared by Geocon Consultants, Inc. under California Department of Transportation (Caltrans) Contract No. 03A1368, Task Order (TO) No. 49, and Expenditure Authorization 01-464101.

1.1 Project Description and Purpose

The project site consists of the Caltrans right-of-way along State Routes (SR) 101, 169, 197, and 199 in Del Norte County, California. The portions of State Routes represented by the samples analyzed include SR-101 between Post Mile (PM) 16.08 and 45.29, SR-169 at PM 3.49, SR-197 between PM 0.78 and 6.12, and SR-199 between PM 0.23 and 33.49. The project site location is depicted on the attached Vicinity Map, Figure 1. The purpose of this study was to assess the general extent of NOA in imported shoulder backing materials throughout the State Highway system in Del Norte County where Caltrans proposes to upgrade metal beam guard railing. This information also will be used to assess NOA impacts to future projects in the project corridor.

1.2 General Objectives

Proposed improvements for the guardrail project, future projects, and general roadway maintenance may require the disturbance of native and imported materials within the highway shoulder areas. Caltrans requested that soil samples collected previously for TO No. 10 of this contract, and samples collected by Steve Werner of Caltrans in shoulder areas of SR-199, be analyzed for asbestos content. The results of this study will be used to evaluate the potential for NOA that could impact construction worker health and safety, and excess soil material disposal.

2.0 BACKGROUND

The California Air Resources Board (CARB) has regulations for construction, grading, quarrying, and surface mining operations that may disturb natural occurrences of asbestos outlined in Title 17 California Code of Regulations (CCR), Section 93105. CCR Section 93106 regulates NOA in surface applications. These regulations are also known as Asbestos Airborne Toxic Control Measures (ATCM). NOA potentially poses a health hazard when it becomes an airborne particulate. The roadway improvement activities proposed could disturb NOA-containing rock and soil, thereby potentially creating an airborne asbestos hazard. 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 approved high

efficiency particulate air filter equipped respirators is required during construction activities. Asbestos 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. Ultramafic rock, materials that contain greater than 10% ultramafic rock, and materials that contain greater than 0.25% asbestos are defined as "restricted material" by Title 17 CCR, Section 93106. Using "restricted material" for surfacing applications is not permitted by Title 17 CCR, Section 93106. Engineering controls, such as wetting of material or the application of a surface sealant, are recommended to minimize the aerial dispersion of asbestos when disturbing NOA-containing materials. Reuse or disposal of NOA-containing or restricted materials is allowed by Title 17 CCR, Section 93105 and Title 17 CCR, 93106, if it is buried under at least 0.25 foot of material that contains less than 0.25% NOA.

3.0 SCOPE OF SERVICES

The scope of services as requested by Caltrans for TO No. 49 included:

- The analysis for asbestos content of 34 soil and rock samples collected under TO No. 10 of this contract but not previously analyzed for asbestos content;
- Analysis for asbestos content of four soil samples collected by Steve Werner of Caltrans;
- Incorporation into this study of asbestos analytical data from 16 samples collected along the shoulder of SR-199 and analyzed under TO No. 10; and
- The preparation of this report.

4.0 INVESTIGATIVE METHODS

4.1 Soil Samples

Thirty-four soil samples analyzed for NOA under TO No. 49 were originally collected for lead analysis under TO No. 10 of this contract. The lead analysis was performed by Advanced Technology Laboratories (ATL). After the lead analyses were completed, the remaining sample aliquot was shipped back to Geocon by ATL under chain-of-custody (COC) protocol. The 0 to 0.5-foot interval from selected samples was then shipped under COC protocol to EMSL Analytical Inc. (EMSL), a Caltrans-approved and California-certified analytical laboratory, for asbestos analysis. Laboratory data from the analysis of 16 samples collected from shoulder backing materials and analyzed for asbestos under TO No. 10 are also included in this report. Samples analyzed for asbestos content under TO No. 10 were collected from the 0.5 to 1.0-foot interval in borings on the site and were also analyzed by EMSL. Sample location data was collected during sampling activities under TO No. 10 using a global positioning system (GPS). According to the unit manufacturer, the GPS used is capable of obtaining a horizontal position with an error of no more than 3.3 feet.

4.2 Laboratory Analyses

Fifty-four samples were analyzed by EMSL for asbestos content under TO No. 49 and TO No. 10 on a six to ten-day turn-around-time basis. Each of the NOA samples was analyzed by the polarized light microscopy (PLM) method for asbestos by CARB Method 435 (CARB 435). The analytical sensitivity of the PLM analysis was 0.25% by area.

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

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Site Geology

We reviewed the California Geological Survey's (CGS) *Geologic Map of the Weed Quadrangle* (CGS 1987) as part of TO No. 10. The depicted geologic materials on or adjacent to the site as shown on the *Weed Quadrangle* are primarily Quaternary alluvium and terrace deposits, and Jurassic/Cretaceous Franciscan Complex along SR-101, 169, and 197. Geologic materials shown along SR-199 east of the junction of SR-197 consist of Jurassic Galice Formation, Jurassic volcanic rocks, Jurassic gabbro, and Jurassic ultramafic rocks. Ultramafic or serpentized geologic materials are mapped along SR-199 east of the junction of SR-197.

Ian Stevenson performed a NOA assessment of the lithology of outcrops within Caltrans right-of-way at the Caltrans designated project locations during field activities for TO No. 10. The observed geology was consistent with that depicted on the *Geologic Map of the Weed Quadrangle*. The soils encountered while advancing hand-auger borings during TO No. 10 were typically composed of brown silty sand to brown clayey sand. Groundwater was not encountered during the TO No. 10 investigation.

Ultramafic rock was noted to be present at less than 10%, by visual estimate, in shoulder backing materials from seven of the samples collected along SR-101 and SR-197. The presence of ultramafic rock in these samples is not consistent with the observed local geology and is likely due to import of these materials from areas where ultramafic rock is present. These samples were reported to contain chrysotile asbestos below 0.25%. Ultramafic rock was noted to be present at less than 10%, by visual estimate, in shoulder backing materials from seven of the samples collected along SR-199. Three of the samples collected along SR-199 were noted to contain greater than 10% ultramafic rock, by visual estimate, as aggregate in shoulder backing. Samples noted to contain ultramafic rock during field sampling are noted on Table 2.

5.2 NOA Results

Fifty-four soil samples were analyzed by EMSL for this study. The samples were analyzed for asbestos by the PLM method using the CARB 435 sample preparation method. Each of the ten samples collected from the 0.0 to 0.5-foot interval of SR-101 were reported to contain chrysotile asbestos at less than 0.25%. One sample was collected from SR-169 and was reported to contain chrysotile asbestos at less than 0.25%. Each of the eleven samples collected from the 0.0 to 0.5-foot interval of SR-197 were reported to contain chrysotile asbestos at less than 0.25%.

Nine of the thirty-two samples collected from SR-199 were reported as non-detect for asbestos and nine samples were reported to contain chrysotile asbestos at less than 0.25%. Fourteen samples from SR-199, collected between PM 9.29 and 9.5 and PM 17.03 and 22.01, were reported to contain chrysotile asbestos between 0.25 and 12.00%. The three samples collected between PM 9.29 and 9.5 were reported to contain chrysotile asbestos at or above 0.25% but are not within an area where ultramafic rocks are mapped. One sample, NOA9.1-4, was noted during field sampling to contain trace ultramafic rock as aggregate in shoulder backing. The eleven samples collected between PM 17.03 and 22.01 were reported to contain chrysotile asbestos between 0.25 and 12.00% and are within an area where ultramafic rocks are mapped. Six of the eleven samples were noted during field sampling to contain minor to trace ultramafic rock as aggregate in shoulder backing and three of the samples were noted during field sampling to contain greater than 10% ultramafic rock, by visual estimation, as aggregate in shoulder backing.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Chrysotile asbestos has been reported at various levels in shoulder backing materials in areas mapped as being underlain by ultramafic and non-ultramafic rock. The highest concentrations of asbestos were reported for samples collected in areas underlain by ultramafic rock. With the exception of the three samples collected between PM 9.29 and 9.5 of SR-199, samples reported to contain asbestos above 0.25% were collected from areas underlain by ultramafic rock. The trace levels (<0.25%) of asbestos noted in shoulder backing materials collected from areas not underlain by ultramafic rock may be due in part to ultramafic rock aggregate, noted at less than 10% where observed, wind blown asbestos, or from vehicle brake dust.

As asbestos is present below the regulatory limit of 0.25%, ultramafic aggregate material was noted at less than 10% where observed, and ultramafic rock is not mapped in the area, shoulder backing materials tested on SR-101, SR-169, and SR-197 are not considered "restricted materials," as defined by Title 17, CCR Section 93106 and work with these materials does not require engineering controls as specified in Title 17, CCR Section 93105.

With one exception, sampled shoulder backing materials collected outside of areas mapped as ultramafic rock along SR-199 are not considered restricted materials. The one exception is the area located between PM 9.29 and 9.5. Shoulder backing materials in this area were reported to contain chrysotile asbestos at 0.25 to 0.50% and are considered restricted materials. This study, however did not define the limits of the restricted material in this outlying area. Shoulder backing materials collected within areas mapped as ultramafic rock along SR-199, PM 17.03 to 22.01 were found to contain chrysotile asbestos at or above 0.25%. The presence of ultramafic rock, and chrysotile asbestos reported at or above 0.25%, requires shoulder backing in this area be classified as restricted material and engineering controls to minimize the aerials dispersion of NOA must be utilized.

Although shoulder backing materials throughout much of the study are reported to contain asbestos below the regulatory limit of 0.25%, work with these 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. An asbestos compliance plan may also be required by Cal-OSHA for activities that will disturb these asbestos-containing materials. Work with shoulder backing materials determined to contain greater than 0.25% asbestos or within areas mapped as ultramafic rock along SR-199, requires the use of engineering controls, including dust suppression, for worker protection to minimize aerial dispersion of NOA fibers. Under CARB's Title 17, Section 93105, offsite disposal of material containing asbestos at or above regulated levels requires asbestos content notification. Facility-specific landfill acceptance criteria should be determined for disposal of asbestos-containing soil materials.

6.1 NOA-containing Materials Management

NOA is a State of California regulated substance, and is reported on the site at levels less than and exceeding the CARB regulatory limit of 0.25%. Though asbestos was reported to be present, the asbestos content does not render these materials unsuitable for reuse within the Caltrans project boundaries. However, construction/maintenance activities involving these asbestos-containing materials may fall under regulatory jurisdiction of Cal-OSHA under CCR Title 8 Section 5208. Mitigation measures during construction/maintenance activities should be utilized to minimize releases of NOA to air (dust control) and surface waters (stormwater discharge). If reused within the Caltrans right-of-way, the material from areas where asbestos was reported to be present at or above regulated levels, or ultramafic rock is present, can not be used in such a way as to fall under the definition of surfacing material as defined in CARB's Title 17, Section 93106. NOA-containing material must be covered by at least 0.25 foot of material that contains less than 0.25% NOA.

6.2 Asbestos Worker Protection

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 containing NOA. Engineering controls such as wet suppression should be utilized to minimize aerial dispersion of NOA fibers in planned work areas during excavation and road 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, CCR 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, CCR 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, either 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.



OREGON
CALIFORNIA

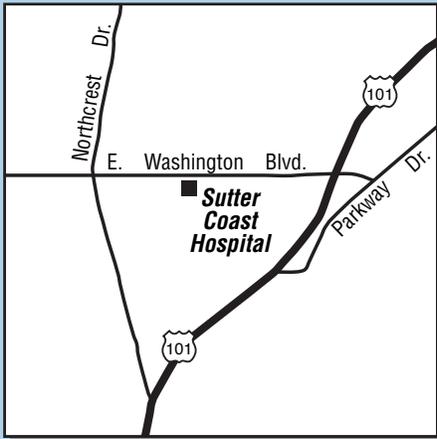
PACIFIC
OCEAN

**Crescent
City**

**Smith
River**

Gasquet

Klamath



See Inset
For Hospital
Location

Rowdy Creek Rd.
Earl Dr.
L. Earl Lake
Eik Valley Rd.
South Fork Rd.

101

197

199

101

101

169

199

DEL NORTE CO.
HUMBOLDT CO.

LEGEND:

 Study Corridor

0 5 10
Scale in Miles

GEOCON

CONSULTANTS, INC.

3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132



Del Norte County Corridor Study

State Routes 101,
169, 197 & 199

VICINITY MAP

GEOCON Proj. No. S9300-06-49

Task Order No. 49

October 2008

Figure 1

TABLE 1
 SUMMARY OF SAMPLE COORDINATES
 DEL NORTE COUNTY CORRIDOR STUDY
 STATE ROUTES 101, 169, 197, AND 199
 DEL NORTE COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DATE	LATITUDE	LONGITUDE
NOA101-44	2/4/2008	41.650150929	-124.114792027
NOA101-45	2/4/2008	41.655518969	-124.115860707
NOA101-47	2/4/2008	41.682619842	-124.113859121
NOA101-49	2/4/2008	41.706235375	-124.130431525
NOA101-53	2/4/2008	41.709495344	-124.128380801
NOA101-57	2/4/2008	NA	NA
NOA101-61	2/4/2008	41.752409064	-124.192300169
NOA101-69	2/5/2008	41.880763264	-124.136931743
NOA101-71	2/5/2008	41.928007550	-124.143073639
NOA101-77	2/5/2008	41.981803052	-124.203198217
NOA169-1	2/5/2008	NA	NA
NOA197-1	2/5/2008	41.814446336	-124.084748923
NOA197-3	2/5/2008	41.816236491	-124.090716410
NOA197-5	2/5/2008	41.818642679	-124.095134170
NOA197-3.7-3	2/5/2008	41.842469431	-124.113133015
NOA197-3.7-5.0	2/5/2008	41.843953609	-124.114268248
NOA197-3.7-7	2/5/2008	41.845717927	-124.116247044
NOA197-4.5-1	2/5/2008	41.850899785	-124.120389257
NOA197-4.5-3	2/5/2008	41.851367082	-124.120692426
NOA197-4.5-5	2/5/2008	41.851900577	-124.120796360
NOA197-4.5-7	2/5/2008	41.852560357	-124.120523639
NOA197-7	2/5/2008	41.873300577	-124.123594003
NOA199-1	2/5/2008	41.800404402	-124.151744534
NOA199-3	2/5/2008	41.805402581	-124.137288210
NOA199-7	2/5/2008	41.807803259	-124.127054688
NOA199-8	2/5/2008	41.810651826	-124.125756859
NOA199-12	2/5/2008	41.797373251	-124.070970984
NOA199-19-1	2/5/2008	41.801288816	-124.055822872

TABLE 1
 SUMMARY OF SAMPLE COORDINATES
 DEL NORTE COUNTY CORRIDOR STUDY
 STATE ROUTES 101, 169, 197, AND 199
 DEL NORTE COUNTY, CALIFORNIA

SAMPLE ID	SAMPLE DATE	LATITUDE	LONGITUDE
NOA199-27	2/5/2008	41.812684010	-124.044807714
NOA199-30	2/5/2008	41.817217473	-124.038243963
NOA9.1-3	2/6/2008	41.822951346	-124.031694067
NOA9.1-4	2/6/2008	41.824002787	-124.031668307
NOA9.1-6	2/6/2008	41.825977547	-124.032455498
NOA199-34	2/5/2008	41.837688058	-124.036245700
NOA199-36	2/5/2008	41.842502290	-124.012669000
NOA199-41	2/5/2008	41.842411484	-123.995689869
NOA199-45	2/5/2008	41.840923708	-123.953603246
NOA199-46	2/5/2008	41.844877639	-123.922178359
NOA199-50	2/4/2008	41.845729908	-123.917242669
NOA199-51	2/5/2008	41.848280310	-123.913421600
NOA199-52	2/5/2008	41.849955645	-123.906458617
NOA199-18.1-1	2/5/2008	41.850910976	-123.904667028
NOA199-56	2/5/2008	41.853699517	-123.893029503
NOA199-18.8-1	2/5/2008	41.853914238	-123.893064293
NOA199-58	2/5/2008	41.857509704	-123.886070656
NOA199-62	2/5/2008	41.858739842	-123.881368127
NOA199-63	2/5/2008	41.860421642	-123.872806317
NOA199-71	2/5/2008	41.874531544	-123.844021315
NOA199-86	2/5/2008	41.882839920	-123.818838091
DN-199-24	7/8/2008	NA	NA
DN-199-24.12	7/8/2008	NA	NA
DN-199-25.61	7/8/2008	NA	NA
DN-199-25.62	7/8/2008	NA	NA
NOA199-125	2/5/2008	41.968268915	-123.746624377

Notes NA = Not Available
199-19-1 = Samples in bold analyzed under TO 10

TABLE 2
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS
 DEL NORIE COUNTY CORRIDOR STUDY
 STATE ROUTES 101, 169, 197, AND 199
 DEL NORIE COUNTY, CALIFORNIA

SAMPLE ID.	STATE ROUTE AND POST MILE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
SR-101				
NOA101-44	SR-101 PM 16.08	PLM	<0.25	Chrysotile
NOA101-45	SR-101 PM 16.55	PLM	<0.25	Chrysotile
NOA101-47	SR-101 PM 18.48	PLM	<0.25	Chrysotile
NOA101-49	SR-101 PM 20.95	PLM	<0.25	Chrysotile ¹
NOA101-53	SR-101 PM 21.33	PLM	<0.25	Chrysotile ¹
NOA101-57	SR-101 PM 21.72	PLM	<0.25	Chrysotile
NOA101-61	SR-101 PM 26.18	PLM	<0.25	Chrysotile ¹
NOA101-69	SR-101 PM 36.26	PLM	<0.25	Chrysotile ¹
NOA101-71	SR-101 PM 39.61	PLM	<0.25	Chrysotile ¹
NOA101-77	SR-101 PM 45.29	PLM	<0.25	Chrysotile
SR-169				
NOA169-1	SR-169 PM 3.49	PLM	<0.25	Chrysotile ²
SR-197				
NOA197-1	SR-197 PM 0.78	PLM	<0.25	Chrysotile
NOA197-3	SR-197 PM 1.11	PLM	<0.25	Chrysotile ¹
NOA197-5	SR-197 PM 1.31	PLM	<0.25	Chrysotile
NOA197-3.7-3	SR-197 PM 3.60	PLM	<0.25	Chrysotile
NOA197-3.7-5.0	SR-197 PM 3.85	PLM	<0.25	Chrysotile

TABLE 2
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS
 DEL NORTE COUNTY CORRIDOR STUDY
 STATE ROUTES 101, 169, 197, AND 199
 DEL NORTE COUNTY, CALIFORNIA

SAMPLE I.D.	STATE ROUTE AND POST MILE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA197-3.7-7	SR-197 PM 4.10	PLM	<0.25	Chrysotile
NOA197-4.5-1	SR-197 PM 4.42	PLM	<0.25	Chrysotile
NOA197-4.5-3	SR-197 PM 4.46	PLM	<0.25	Chrysotile
NOA197-4.5-5	SR-197 PM 4.50	PLM	<0.25	Chrysotile
NOA197-4.5-7	SR-197 PM 4.53	PLM	<0.25	Chrysotile
NOA197-7	SR-197 PM 6.12	PLM	<0.25	Chrysotile ¹
SR-199				
NOA199-1	SR-199 PM 0.23	PLM	<0.25	Chrysotile
NOA199-3	SR-199 PM 0.87	PLM	<0.25	Chrysotile
NOA199-7	SR-199 PM 1.43	PLM	<0.25	Chrysotile
NOA199-8	SR-199 PM 1.77	PLM	<0.25	Chrysotile
NOA199-12	SR-199 PM 4.15	PLM	<0.25	Chrysotile
NOA199-19-1	SR-199 PM 7.09	PLM	ND	ND
NOA199-27	SR-199 PM 8.23	PLM	<0.25	Chrysotile
NOA199-30	SR-199 PM 8.69	PLM	<0.25	Chrysotile
NOA9.1-3	SR-199 PM 9.29	PLM	0.50	Chrysotile
NOA9.1-4	SR-199 PM 9.33	PLM	0.25	Chrysotile ¹
NOA9.1-6	SR-199 PM 9.5	PLM	0.25	Chrysotile
NOA199-34	SR-199 PM 10.43	PLM	<0.25	Chrysotile

TABLE 2
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
DEL NORTE COUNTY CORRIDOR STUDY
STATE ROUTES 101, 169, 197, AND 199
DEL NORTE COUNTY, CALIFORNIA

SAMPLE I.D.	STATE ROUTE AND POST MILE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
NOA199-36	SR-199 PM 11.94	PLM	<0.25	Chrysotile
NOA199-41	SR-199 PM 12.76	PLM	ND	ND
NOA199-45-1	SR-199 PM 15.41	PLM	ND	ND
NOA199-46-1	SR-199 PM 17.03	PLM	0.25	Chrysotile
NOA199-50-1	SR-199 PM 17.44	PLM	1.50	Chrysotile ¹
NOA199-51-1	SR-199 PM 17.56	PLM	3.25	Chrysotile
NOA199-52-1	SR-199 PM 17.95	PLM	0.50	Chrysotile ¹
NOA18.1-1	SR-199 PM 18.1	PLM	8.25	Chrysotile ³
NOA199-56-1	SR-199 PM 18.71	PLM	2.75	Chrysotile ¹
NOA18.8-1	SR-199 PM 18.8	PLM	12.00	Chrysotile ³
NOA199-58-1	SR-199 PM 19.16	PLM	0.75	Chrysotile ³
NOA199-62-1	SR-199 PM 19.53	PLM	0.75	Chrysotile ¹
NOA199-63-1	SR-199 PM 19.99	PLM	2.25	Chrysotile ¹
NOA199-71-1	SR-199 PM 22.01	PLM	0.75	Chrysotile ¹
NOA199-86	SR-199 PM 24.81	PLM	ND	ND
DN-199-24	SR-199 PM 24.0	PLM	ND	ND
DN-199-24.12	SR-199 PM 24.12	PLM	ND	ND
DN-199-25.61	SR-199 PM 25.61	PLM	ND	ND

TABLE 2
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
DEL NORTE COUNTY CORRIDOR STUDY
STATE ROUTES 101, 169, 197, AND 199
DEL NORTE COUNTY, CALIFORNIA

SAMPLE I.D.	STATE ROUTE AND POST MILE	ANALYTICAL METHOD	ASBESTOS %	ASBESTOS TYPE
DN-199-25.62	SR-199 PM 25.62	PLM	ND	ND
NOA199-125	SR-199 PM 33.49	PLM	ND	ND

Notes

PLM = Polarized Light Microscopy

NOA199-19-1 = Samples in bold analyzed under TO 10

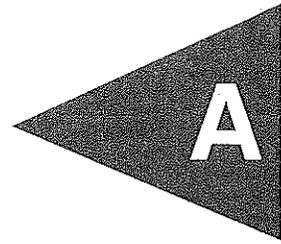
ND = Non Detect

¹ = Ultramafic materials noted to comprise <10% of sample, by visual estimation, during field investigation

² = Ultramafic materials were not noted in sample during field investigation, sample not available for review

³ = Ultramafic materials noted to comprise >10% of sample, by visual estimation, during field investigation

APPENDIX





EMSL Analytical, Inc

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

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Attn: **Ian Stevenson**
Geocon Consultants
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Suite 800
Rancho Cordova, CA 95742

Customer ID: GECN80
Customer PO: S9200-06-49
Received: 07/31/08 2:00 PM
EMSL Order: 090806057

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **Del Norte Corridor Study, S9200-06-49**

EMSL Proj:
Analysis Date: 8/14/2008
Report Date: 8/14/2008

**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	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA101-44 090806057-0001	2/4/08 1525	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA101-45 090806057-0002	2/4/08 1535	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA101-47 090806057-0003	2/4/08 1540	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA101-49 090806057-0004	2/4/08 1550	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA101-53 090806057-0005	4/4/08 1605	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA101-57 090806057-0006	2/4/08 1615	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA101-61 090806057-0007	2/4/08 1620	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA101-69 090806057-0008	2/5/08 0736	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA101-71 090806057-0009	2/5/08 0750	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA101-77 090806057-0010	2/5/08 0800	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile

Analyst(s)
Jason Mcgriff (20)
Rui Cindy Geng (14)


Baojia Ke, Laboratory Manager
or other approved signatory

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Customer PO: S9200-06-49
Received: 07/31/08 2:00 PM
EMSL Order: 090806057

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **Del Norte Corridor Study, S9200-06-49**

EMSL Proj:
Analysis Date: 8/14/2008
Report Date: 8/14/2008

**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	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA169-1 090806057-0011	2/6/08 1622	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA197-1 090806057-0012	2/5/08 0900	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA197-3 090806057-0013	2/5/08 0855	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA197-5 090806057-0014	2/5/08 0850	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA197-7 090806057-0015	2/5/08 0825	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA199-1 090806057-0016	2/5/08 0915	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA199-3 090806057-0017	2/5/08 0930	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA199-7 090806057-0018	2/5/08 0940	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA199-8 090806057-0019	2/5/08 0950	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA199-12 090806057-0020	2/5/08 1000	Tan Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile

Analyst(s) _____

Jason Mcgriff (20)
Rui Cindy Geng (14)

Baojia Ke, Laboratory Manager
or other approved signatory

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Customer ID: GECN80
Customer PO: S9200-06-49
Received: 07/31/08 2:00 PM
EMSL Order: 090806057

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: Del Norte Corridor Study, S9200-06-49

EMSL Proj:
Analysis Date: 8/14/2008
Report Date: 8/14/2008

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	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA199-27 090806057-0021	2/5/08 1030	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA199-30 090806057-0022	2/5/08 1035	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA199-34 090806057-0023	2/5/08 1050	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA199-36 090806057-0024	2/5/08 1110	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA199-41 090806057-0025	2/5/08 1120	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA199-86 090806057-0026	2/5/08 1315	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA199-125 090806057-0027	2/5/08 1340	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
NOA197-3.7-3 090806057-0028	2/5/08 1000	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA197-3.7-5.0 090806057-0029	2/6/08 1012	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA197-3.7-7 090806057-0030	2/6/08 10245	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile

Analyst(s)

Jason Mcgriff (20)
Rui Cindy Geng (14)


Baojia Ke, Laboratory Manager
or other approved signatory

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Customer ID: GECN80
Customer PO: S9200-06-49
Received: 07/31/08 2:00 PM
EMSL Order: 090806057

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **Del Norte Corridor Study, S9200-06-49**

EMSL Proj:
Analysis Date: 8/14/2008
Report Date: 8/14/2008

**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	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
NOA197-4.5-1 090806057-0031	2/6/08 1049	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA197-4.5-3 090806057-0032	2/6/08 1058	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA197-4.5-5 090806057-0033	2/6/08 1105	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile
NOA197-4.5-7 090806057-0034	2/6/08 1116	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	<0.25% Chrysotile

Analyst(s)

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Rui Cindy Geng (14)



Baojia Ke, Laboratory Manager
or other approved signatory

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90806057



Chain of Custody

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 Fax: (510) 895-3680
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Address2:	Suite 800	Address2:	Suite 800
City, State:	Rancho Cordova, CA	City, State:	Rancho Cordova, CA
Zip/Post Code:	95742	Zip/Post Code:	95742
Country:	US	Country:	US
Contact Name:	Ian Stevenson	Attn:	Ian Stevenson
Phone:	916-852-9118	Phone:	916-852-9118
Fax:	916-852-9132	Fax:	916-852-9132
Email:	stevenson@geoconinc.com	Email:	stevenson@geoconinc.com
EMSL Rep:		P.O. Number:	
Project Name/Number: Del Norte Corridor Study/S9200-06-49			

MATRIX			TURNAROUND			
<input type="checkbox"/> Air	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> Same Day or 12 Hours*	<input type="checkbox"/> 24 Hours (1 day)
<input type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water		<input type="checkbox"/> 48 Hours (2 days)	<input type="checkbox"/> 72 Hours (3 days)	<input type="checkbox"/> 96 Hours (4 days)	<input type="checkbox"/> 120 Hours (5 days)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater		<input checked="" type="checkbox"/> 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

*12 hours (must arrive by 11:00a.m. Mon -Fri.), Please Refer to Price Quote

<p>PCM - Air</p> <input type="checkbox"/> NIOSH 7400(A) Issue 2: August 1994 <input type="checkbox"/> OSHA w/TWA <input type="checkbox"/> Other:	<p>TEM Air</p> <input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II	<p>TEM WATER</p> <input type="checkbox"/> EPA 100.1 <input type="checkbox"/> EPA 100.2 <input type="checkbox"/> NYS 198.2
<p>PLM - Bulk</p> <input type="checkbox"/> EPA 600/R-93/116 <input type="checkbox"/> EPA Point Count <input type="checkbox"/> NY Stratified Point Count <input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1 <input type="checkbox"/> NIOSH 9002: <input type="checkbox"/> EMSL Standard Addition:	<p>TEM BULK</p> <input type="checkbox"/> Drop Mount (Qualitative) <input type="checkbox"/> Chatfield SOP - 1988-02 <input type="checkbox"/> TEM NOB (Gravimetric) NYS 198.4 <input type="checkbox"/> EMSL Standard Addition:	<p>TEM Microvac/Wipe</p> <input type="checkbox"/> ASTM D 5755-95 (quantative method) <input type="checkbox"/> Wipe Qualitative
<p>SEM Air or Bulk</p> <input type="checkbox"/> Qualitative <input type="checkbox"/> Quantitative	<p>PLM Soil</p> <input type="checkbox"/> EPA Protocol Qualitative <input type="checkbox"/> EPA Protocol Quantitative <input type="checkbox"/> EMSL MSD 9000 Method fibers/gram	<p>XRD</p> <input type="checkbox"/> Asbestos <input type="checkbox"/> Silica NIOSH 7500
<p>OTHER</p> <input checked="" type="checkbox"/> CARB 435 Level A		

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 3675 (888) 455-3675
 Fax: (510) 895-3680
<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s) NOA101-44 - NOA197-4.5-7Total Samples #: 34Relinquished: [Signature] Date: 2/30/08Time: 0900Received: [Signature] Date: 7/31/09Time: 8:00 UPS

Relinquished: _____ Date: _____

Time: _____

Received: _____ Date: _____

Time: _____

	SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
1	NOA101-44	2/4/08 1525	
2	NOA101-45	2/4/08 1535	
3	NOA101-47	2/4/08 1540	
4	NOA101-49	2/4/08 1550	
5	NOA101-53	2/4/08 1605	
6	NOA101-57	2/4/08 1615	
7	NOA101-61	2/4/08 1620	
8	NOA101-69	2/5/08 0736	
9	NOA101-71	2/5/08 0750	
10	NOA101-77	2/5/08 0800	
11	NOA169-1	2/6/08 1622	
12	NOA197-1	2/5/08 0900	
13	NOA197-3	2/5/08 0855	
14	NOA197-5	2/5/08 0850	

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<http://www.emsl.com>

Please print all information legibly.

Client Sample # (s) NOA 101-44 - NOA 197-4.5-7

Total Samples #: 34

Relinquished: [Signature] Date: 7/30/08

Time: 0900

Received: [Signature] Date: 7/31/08

Time: 8:00 hrs

Relinquished: _____ Date: _____

Time: _____

Received: _____ Date: _____

Time: _____

	SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
15	NOA 197-7	2/5/08 0825	
16	NOA 199-1	2/5/08 0915	
17	NOA 199-3	2/5/08 0930	
18	NOA 199-7	2/5/08 0940	
19	NOA 199-8	2/5/08 0950	
20	NOA 199-12	2/5/08 1000	
21	NOA 199-27	2/5/08 1030	
22	NOA 199-30	2/5/08 1035	
23	NOA 199-34	2/5/08 1050	
24	NOA 199-36	2/5/08 1110	
25	NOA 199-41	2/5/08 1120	
26	NOA 199-86	2/5/08 1315	
27	NOA 199-125	2/5/08 1340	
28	NOA 197-3.7-3	2/5/08 1000	

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Please print all information legibly.

Client Sample # (s) NOA101-44 - NOA197-4.5-7

Total Samples #: 34

Relinquished: [Signature] Date: 7/30/08

Time: 0900

Received: [Signature] Date: 7/31/08

Time: 2:00 wps

Relinquished: _____ Date: _____

Time: _____

Received: _____ Date: _____

Time: _____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
29 NOA 197-3.7-50	2/6/08 1012	
30 NOA 197-3.7-7	2/6/08 1024	
31 NOA 197-4.5-1	2/6/08 1049	
32 NOA 197-4.5-3	2/6/08 1058	
33 NOA 197-4.5-5	2/6/08 1105	
34 NOA 197-4.5-7	2/6/08 1116	



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Customer ID: GECN80
Customer PO: S9300-06-49
Received: 08/01/08 10:00 AM
EMSL Order: 090807049

Fax: (916) 852-9132 Phone: (916) 852-9118
Project: **S9300-06-49, Del Norte Corridor Study**

EMSL Proj: S9300-06-**
Analysis Date: 9/5/2008
Report Date: 9/6/2008

**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	Location	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DN-199-24 090807049-0001	7/8/2008, Shoulder backing	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
DN-199-24.12 090807049-0002	7/8/2008, Shoulder backing	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
DN-199-25.61 090807049-0003	7/8/2008, Shoulder backing	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected
DN-199-25.62 090807049-0004	7/8/2008, Shoulder backing	Brown Non-Fibrous Homogeneous		100.00% Non-fibrous (other)	None Detected

Analyst(s) _____
Nathee Dummai (4)



Baojia Ke, Laboratory Manager
or other approved signatory

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Address2:	Suite 800	Address2:	Suite 800
City, State:	Rancho Cordova, CA	City, State:	Rancho Cordova, CA
Zip/Post Code:	95742	Zip/Post Code:	95742
Country:		Country:	
Contact Name:	Ian Stevenson	Attn:	Ian Stevenson
Phone:	916-852-9118	Phone:	916-852-9118
Fax:	916-852-9132	Fax:	916-852-9132
Email:	stevenson@geoconinc.com	Email:	stevenson@geoconinc.com
EMSL Rep:		P.O. Number:	
Project Name/Number: <i>Del Norte Corridor Study / 59300-06-49</i>			

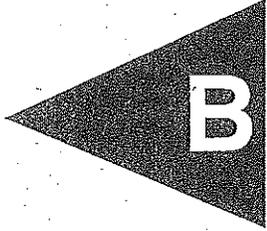
MATRIX			TURNAROUND			
<input type="checkbox"/> Air	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> Same Day or 12 Hours*	<input type="checkbox"/> 24 Hours (1 day)
<input type="checkbox"/> Bulk	<input type="checkbox"/> Drinking Water		<input type="checkbox"/> 48 Hours (2 days)	<input type="checkbox"/> 72 Hours (3 days)	<input type="checkbox"/> 96 Hours (4 days)	<input type="checkbox"/> 120 Hours (5 days)
<input type="checkbox"/> Wipe	<input type="checkbox"/> Wastewater		<input checked="" type="checkbox"/> 144+ hours (6-10 days)			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

*12 hours (must arrive by 11:00a.m. Mon -Fri.), Please Refer to Price Quote

<p>PCM - Air</p> <input type="checkbox"/> NIOSH 7400(A) Issue 2: August 1994 <input type="checkbox"/> OSHA w/TWA <input type="checkbox"/> Other:	<p>TEM Air</p> <input type="checkbox"/> AHERA 40 CFR, Part 763 Subpart E <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II	<p>TEM WATER</p> <input type="checkbox"/> EPA 100.1 <input type="checkbox"/> EPA 100.2 <input type="checkbox"/> NYS 198.2
<p>PLM - Bulk</p> <input type="checkbox"/> EPA 600/R-93/116 <input type="checkbox"/> EPA Point Count <input type="checkbox"/> NY Stratified Point Count <input type="checkbox"/> PLM NOB (Gravimetric) NYS 198.1 <input type="checkbox"/> NIOSH 9002: <input type="checkbox"/> EMSL Standard Addition:	<p>TEM BULK</p> <input type="checkbox"/> Drop Mount (Qualitative) <input type="checkbox"/> Chatfield SOP - 1988-02 <input type="checkbox"/> TEM NOB (Gravimetric) NYS 198.4 <input type="checkbox"/> EMSL Standard Addition:	<p>TEM Microvac/Wipe</p> <input type="checkbox"/> ASTM D 5755-95 (quantative method) <input type="checkbox"/> Wipe Qualitative
<p>SEM Air or Bulk</p> <input type="checkbox"/> Qualitative <input type="checkbox"/> Quantitative	<p>PLM Soil</p> <input type="checkbox"/> EPA Protocol Qualitative <input type="checkbox"/> EPA Protocol Quantitative <input type="checkbox"/> EMSL MSD 9000 Method fibers/gram	<p>XRD</p> <input type="checkbox"/> Asbestos <input type="checkbox"/> Silica NIOSH 7500
<p>OTHER</p> <input checked="" type="checkbox"/> <i>CARB 435</i> <i>Lead A</i>		

APPENDIX



B

Carmen Aguila

From: Diane Galvan
Sent: Wednesday, July 09, 2008 10:36 AM
To: Carmen Aguila
Subject: FW: Del Norte Samples

Carmen,

Please have samples in WO#'s 096983 and 096990 shipped back to Ian @ Geocon-Rancho.

Thanks,

Diane

From: Ian Stevenson [mailto:stevenson@geoconinc.com]
Sent: Thursday, May 29, 2008 3:38 PM
To: Diane Galvan
Subject: Del Norte Samples

Hi Diane,

Please continue to hold the Del Norte samples, work orders 096983 and 096990. A new project should be approved soon and I will be able to bill shipping charges at that time. If holding the samples becomes an inconvenience let me know and I will see if you can ship them before the new project is approved.

Ian M. Stevenson, PG
Project Geologist

GEOCON CONSULTANTS, INC.

3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
(916) 852-9118 office
(916) 852-9132 fax
(916) 869-4308 mobile

7/9/2008

Advanced Technology Laboratorie

3275 Walnut Avenue
Signal Hill, CA 90755-5225
(562) 989-4045

INTERNAL CHAIN-OF-CUSTODY RECORD

COC: 59362

Return To:

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

TEL:
FAX:
Client ID: GEOCON-RANCH

11-Jul-08
By: ACM

Sample ID	Client ID	Matrix	Collection Date	Bottle Type	Bottle No
096983-001A	101-1-0	Soil	2/4/2008	ZIPLOCK	1
096983-002A	101-1-1	Soil	2/4/2008	ZIPLOCK	1
096983-003A	101-3-0	Soil	2/4/2008	ZIPLOCK	1
096983-004A	101-3-1	Soil	2/4/2008	ZIPLOCK	1
096983-005A	101-4-0	Soil	2/4/2008	ZIPLOCK	1
096983-006A	101-4-1	Soil	2/4/2008	ZIPLOCK	1
096983-007A	101-6-0	Soil	2/4/2008	ZIPLOCK	1
096983-008A	101-6-1	Soil	2/4/2008	ZIPLOCK	1
096983-009A	101-9-0	Soil	2/4/2008	ZIPLOCK	1
096983-010A	101-9-1	Soil	2/4/2008	ZIPLOCK	1
096983-011A	101-10-0	Soil	2/4/2008	ZIPLOCK	1
096983-012A	101-10-1	Soil	2/4/2008	ZIPLOCK	1
096983-013A	101-15-0	Soil	2/4/2008	ZIPLOCK	1
096983-014A	101-15-1	Soil	2/4/2008	ZIPLOCK	1
096983-015A	101-21-0	Soil	2/4/2008	ZIPLOCK	1
096983-016A	101-21-1	Soil	2/4/2008	ZIPLOCK	1
096983-017A	101-28-0	Soil	2/4/2008	ZIPLOCK	1
096983-018A	101-28-1	Soil	2/4/2008	ZIPLOCK	1
096983-019A	101-29-0	Soil	2/4/2008	ZIPLOCK	1
096983-020A	101-29-1	Soil	2/4/2008	ZIPLOCK	1
096983-021A	101-33-0	Soil	2/4/2008	ZIPLOCK	1
096983-022A	101-33-1	Soil	2/4/2008	ZIPLOCK	1
096983-023A	101-34-0	Soil	2/4/2008	ZIPLOCK	1
096983-024A	101-34-1	Soil	2/4/2008	ZIPLOCK	1
096983-025A	101-36-0	Soil	2/4/2008	ZIPLOCK	1
096983-026A	101-36-1	Soil	2/4/2008	ZIPLOCK	1
096983-027A	101-40-0	Soil	2/4/2008	ZIPLOCK	1
096983-028A	101-40-1	Soil	2/4/2008	ZIPLOCK	1
096983-029A	101-44-0	Soil	2/4/2008	ZIPLOCK	1
096983-030A	101-44-1	Soil	2/4/2008	ZIPLOCK	1
096983-031A	101-45-0	Soil	2/4/2008	ZIPLOCK	1
096983-032A	101-45-1	Soil	2/4/2008	ZIPLOCK	1
096983-033A	101-47-0	Soil	2/4/2008	ZIPLOCK	1
096983-034A	101-47-1	Soil	2/4/2008	ZIPLOCK	1
096983-035A	101-49-0	Soil	2/4/2008	ZIPLOCK	1
096983-036A	101-49-1	Soil	2/4/2008	ZIPLOCK	1
096983-037A	101-53-0	Soil	2/4/2008	ZIPLOCK	1
096983-038A	101-53-1	Soil	2/4/2008	ZIPLOCK	1

Comments:

	Date/Time
Relinquished by: (Signature) <i>ACM</i>	<i>7/11/08</i>
Received by: (Signature) <i>CR [Signature]</i>	<i>7/11/08</i>

Advanced Technology Laboratorie

3275 Walnut Avenue
Signal Hill, CA 90755-5225
(562) 989-4045

INTERNAL CHAIN-OF-CUSTODY RECORD

COC: 59362

Return To:

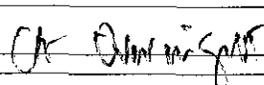
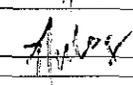
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742

TEL:
FAX:
Client ID: GEOCON-RANCH

11-Jul-08
By: ACM

Sample ID	Client ID	Matrix	Collection Date	Bottle Type	Bottle No
096983-039A	101-57-0	Soil	2/4/2008	ZIPLOCK	1
096983-040A	101-57-1	Soil	2/4/2008	ZIPLOCK	1
096983-041A	101-61-0	Soil	2/4/2008	ZIPLOCK	1
096983-042A	101-61-1	Soil	2/4/2008	ZIPLOCK	1
096983-043A	101-69-0	Soil	2/5/2008	ZIPLOCK	1
096983-044A	101-69-1	Soil	2/5/2008	ZIPLOCK	1
096983-045A	101-71-0	Soil	2/5/2008	ZIPLOCK	1
096983-046A	101-71-1	Soil	2/5/2008	ZIPLOCK	1
096983-047A	101-77-0	Soil	2/5/2008	ZIPLOCK	1
096983-048A	101-77-1	Soil	2/5/2008	ZIPLOCK	1
096983-049A	197-7-0	Soil	2/5/2008	ZIPLOCK	1
096983-050A	197-7-1	Soil	2/5/2008	ZIPLOCK	1
096983-051A	197-5-0	Soil	2/5/2008	ZIPLOCK	1
096983-052A	197-5-1	Soil	2/5/2008	ZIPLOCK	1
096983-053A	197-3-0	Soil	2/5/2008	ZIPLOCK	1
096983-055A	197-1-0	Soil	2/5/2008	ZIPLOCK	1
096983-056A	197-1-1	Soil	2/5/2008	ZIPLOCK	1
096983-057A	199-1-0	Soil	2/5/2008	ZIPLOCK	1
096983-058A	199-1-1	Soil	2/5/2008	ZIPLOCK	1
096983-059A	199-3-0	Soil	2/5/2008	ZIPLOCK	1
096983-060A	199-3-1	Soil	2/5/2008	ZIPLOCK	1
096983-061A	199-7-0	Soil	2/5/2008	ZIPLOCK	1
096983-062A	199-7-1	Soil	2/5/2008	ZIPLOCK	1
096983-063A	199-8-0	Soil	2/5/2008	ZIPLOCK	1
096983-064A	199-8-1	Soil	2/5/2008	ZIPLOCK	1
096983-065A	199-12-0	Soil	2/5/2008	ZIPLOCK	1
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096983-070A	199-27-1	Soil	2/5/2008	ZIPLOCK	1
096983-071A	199-30-0	Soil	2/5/2008	ZIPLOCK	1
096983-072A	199-30-1	Soil	2/5/2008	ZIPLOCK	1
096983-073A	199-34-0	Soil	2/5/2008	ZIPLOCK	1
096983-074A	199-34-1	Soil	2/5/2008	ZIPLOCK	1
096983-075A	199-36-0	Soil	2/5/2008	ZIPLOCK	1
096983-076A	199-36-1	Soil	2/5/2008	ZIPLOCK	1
096983-077A	199-41-0	Soil	2/5/2008	ZIPLOCK	1

Comments:

	Date/Time
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INTERNAL CHAIN-OF-CUSTODY RECORD

COC: 59362

Return To:

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

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11-Jul-08
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Sample ID	Client ID	Matrix	Collection Date	Bottle Type	Bottle No
096983-078A	199-41-1	Soil	2/5/2008	ZIPLOCK	1
096983-079A	199-45-0	Soil	2/5/2008	ZIPLOCK	1
096983-080A	199-45-1	Soil	2/5/2008	ZIPLOCK	1
096983-081A	199-46-0	Soil	2/5/2008	ZIPLOCK	1
096983-082A	199-46-1	Soil	2/5/2008	ZIPLOCK	1
096983-085A	199-51-0	Soil	2/5/2008	ZIPLOCK	1
096983-086A	199-51-1	Soil	2/5/2008	ZIPLOCK	1
096983-087A	199-52-0	Soil	2/5/2008	ZIPLOCK	1
096983-088A	199-52-1	Soil	2/5/2008	ZIPLOCK	1
096983-089A	199-56-0	Soil	2/5/2008	ZIPLOCK	1
096983-090A	199-56-1	Soil	2/5/2008	ZIPLOCK	1
096983-091A	199-58-0	Soil	2/5/2008	ZIPLOCK	1
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096983-093A	199-62-0	Soil	2/5/2008	ZIPLOCK	1
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096983-096A	199-63-1	Soil	2/5/2008	ZIPLOCK	1
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096983-098A	199-71-1	Soil	2/5/2008	ZIPLOCK	1
096983-099A	199-86-0	Soil	2/5/2008	ZIPLOCK	1
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096983-101A	199-125-0	Soil	2/5/2008	ZIPLOCK	1
096983-102A	199-125-1	Soil	2/5/2008	ZIPLOCK	1
096983-103A	169-1-0	Soil	2/6/2008	ZIPLOCK	1
096983-104A	169-1-1	Soil	2/6/2008	ZIPLOCK	1
096983-107A	199-18.8-1	Soil	2/5/2008	ZIPLOCK	1
096983-108A	199-18.1-1	Soil	2/5/2008	ZIPLOCK	1
096983-110A	199-50-0	Soil	2/4/2008	ZIPLOCK	1
096983-111A	199-50-1	Soil	2/4/2008	ZIPLOCK	1

Comments:

	Date/Time
Relinquished by: (Signature) <i>ACM</i>	<i>7/11/08</i>
Received by: (Signature) <i>ACM</i>	<i>7/11/08</i>

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3275 Walnut Avenue
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INTERNAL CHAIN-OF-CUSTODY RECORD

COC: 59363

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

TEL:
FAX:
Client ID: GEOCON-RANCH

11-Jul-08
By: ACM

Sample ID	Client ID	Matrix	Collection Date	Bottle Type	Bottle No
096990-001A	9.1-1-0	Soil	2/6/2008	ZIPLOCK	1
096990-002A	9.1-1-1	Soil	2/6/2008	ZIPLOCK	1
096990-003A	9.1-2-0	Soil	2/6/2008	ZIPLOCK	1
096990-004A	9.1-2-1	Soil	2/6/2008	ZIPLOCK	1
096990-005A	9.1-3-0	Soil	2/6/2008	ZIPLOCK	1
096990-006A	9.1-3-1	Soil	2/6/2008	ZIPLOCK	1
096990-007A	9.1-4-0	Soil	2/6/2008	ZIPLOCK	1
096990-008A	9.1-4-1	Soil	2/6/2008	ZIPLOCK	1
096990-009A	9.1-5-0	Soil	2/6/2008	ZIPLOCK	1
096990-010A	9.1-5-1	Soil	2/6/2008	ZIPLOCK	1
096990-011A	9.1-6-0	Soil	2/6/2008	ZIPLOCK	1
096990-012A	9.1-6-1	Soil	2/6/2008	ZIPLOCK	1
096990-013A	197-3.7-1-0	Soil	2/6/2008	ZIPLOCK	1
096990-014A	197-3.7-1-1	Soil	2/6/2008	ZIPLOCK	1
096990-015A	197-3.7-2-0	Soil	2/6/2008	ZIPLOCK	1
096990-016A	197-3.7-2-1	Soil	2/6/2008	ZIPLOCK	1
096990-017A	197-3.7-3-0	Soil	2/6/2008	ZIPLOCK	1
096990-018A	197-3.7-3-1	Soil	2/6/2008	ZIPLOCK	1
096990-019A	197-3.7-4.0	Soil	2/6/2008	ZIPLOCK	1
096990-020A	197-3.7-4-1	Soil	2/6/2008	ZIPLOCK	1
096990-021A	197-3.7-5.0	Soil	2/6/2008	ZIPLOCK	1
096990-022A	197-3.7-5-1	Soil	2/6/2008	ZIPLOCK	1
096990-023A	197-3.7-6-0	Soil	2/6/2008	ZIPLOCK	1
096990-024A	197-3.7-6-1	Soil	2/6/2008	ZIPLOCK	1
096990-025A	197-3.7-7-0	Soil	2/6/2008	ZIPLOCK	1
096990-026A	197-3.7-7-1	Soil	2/6/2008	ZIPLOCK	1
096990-027A	197-4.5-1-0	Soil	2/6/2008	ZIPLOCK	1
096990-028A	197-4.5-1-1	Soil	2/6/2008	ZIPLOCK	1
096990-029A	197-4.5-2-0	Soil	2/6/2008	ZIPLOCK	1
096990-030A	197-4.5-2-1	Soil	2/6/2008	ZIPLOCK	1
096990-031A	197-4.5-3-0	Soil	2/6/2008	ZIPLOCK	1
096990-032A	197-4.5-3-1	Soil	2/6/2008	ZIPLOCK	1
096990-033A	197-4.5-4-0	Soil	2/6/2008	ZIPLOCK	1
096990-034A	197-4.5-4-1	Soil	2/6/2008	ZIPLOCK	1
096990-035A	197-4.5-5-0	Soil	2/6/2008	ZIPLOCK	1
096990-036A	197-4.5-5-1	Soil	2/6/2008	ZIPLOCK	1
096990-037A	197-4.5-6-0	Soil	2/6/2008	ZIPLOCK	1
096990-038A	197-4.5-6-1	Soil	2/6/2008	ZIPLOCK	1

Comments:

	Date/Time
Relinquished by: (Signature) _____	_____
Received by: (Signature) _____	_____

AC Overmeyer *July*

Advanced Technology Laboratorie

3275 Walnut Avenue
Signal Hill, CA 90755-5225
(562) 989-4045

INTERNAL CHAIN-OF-CUSTODY RECORD

COC: 59363

Return To:

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

TEL:
FAX:
Client ID: GEOCON-RANCH

11-Jul-08
By: ACM

Sample ID	Client ID	Matrix	Collection Date	Bottle Type	Bottle No
096990-039A	197-4.5-7-0	Soil	2/6/2008	ZIPLOCK	1
096990-040A	197-4.5-7-1	Soil	2/6/2008	ZIPLOCK	1
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096990-042A	101-7.1-1-1	Soil	2/6/2008	ZIPLOCK	1
096990-043A	101-7.1-1-2	Soil	2/6/2008	ZIPLOCK	1
096990-044A	101-7.1-2-0	Soil	2/6/2008	ZIPLOCK	1
096990-045A	101-7.1-2-1	Soil	2/6/2008	ZIPLOCK	1
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096990-048A	101-7.1-3-1	Soil	2/6/2008	ZIPLOCK	1
096990-049A	101-7.1-3-2	Soil	2/6/2008	ZIPLOCK	1
096990-050A	101-7.1-4-0	Soil	2/6/2008	ZIPLOCK	1
096990-051A	101-7.1-4-1	Soil	2/6/2008	ZIPLOCK	1
096990-052A	101-7.1-4-2	Soil	2/6/2008	ZIPLOCK	1
096990-053A	101-7.1-5-0	Soil	2/6/2008	ZIPLOCK	1
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096990-057A	101-7.1-6-1	Soil	2/6/2008	ZIPLOCK	1
096990-058A	101-7.1-6-2	Soil	2/6/2008	ZIPLOCK	1
096990-059A	101-7.1-7-0	Soil	2/6/2008	ZIPLOCK	1
096990-060A	101-7.1-7-1	Soil	2/6/2008	ZIPLOCK	1
096990-061A	101-7.1-8-0	Soil	2/6/2008	ZIPLOCK	1
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096990-063A	101-7.1-8-2	Soil	2/6/2008	ZIPLOCK	1
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096990-066A	101-7.1-9-2	Soil	2/6/2008	ZIPLOCK	1
096990-067A	101-7.1-10-0	Soil	2/6/2008	ZIPLOCK	1
096990-068A	101-5.0-5-0	Soil	2/6/2008	ZIPLOCK	1
096990-069A	101-5.0-5-1	Soil	2/6/2008	ZIPLOCK	1
096990-070A	101-5.0-6-0	Soil	2/6/2008	ZIPLOCK	1
096990-071A	101-5.0-6-1	Soil	2/6/2008	ZIPLOCK	1
096990-072A	101-5.0-7-0	Soil	2/6/2008	ZIPLOCK	1
096990-073A	101-5.0-7-1	Soil	2/6/2008	ZIPLOCK	1
096990-074A	101-7.1-10-1	Soil	2/6/2008	ZIPLOCK	1
096990-075A	101-7.1-10-2	Soil	2/6/2008	ZIPLOCK	1
096990-076A	101-5.0-1-0	Soil	2/6/2008	ZIPLOCK	1

Comments:

	Date/Time
Relinquished by: (Signature) _____	7/11
Received by: (Signature) _____	7/11 10:06

Advanced Technology Laboratorie

3275 Walnut Avenue
Signal Hill, CA 90755-5225
(562) 989-4045

INTERNAL CHAIN-OF-CUSTODY RECORD

Return To:

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By: ACM

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096990-080A	101-5.0-3-0	Soil	2/6/2008	ZIPLOCK	1
096990-081A	101-5.0-3-1	Soil	2/6/2008	ZIPLOCK	1
096990-082A	101-5.0-4-0	Soil	2/6/2008	ZIPLOCK	1
096990-083A	101-5.0-4-1	Soil	2/6/2008	ZIPLOCK	1

Comments:

	Date/Time
Relinquished by: (Signature) _____ <i>ACM</i>	_____ <i>7/11</i>
Received by: (Signature) _____	_____