



## Staff Report

### March 12, 2019

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**TO:** Honorable Mayor and Members of the Town Council  
**FROM:** Sean Rabé, Town Manager  
**DATE:** March 7, 2019  
**RE:** Contract with Geocon Consultants, Inc. for Phase 2 Environmental Site Assessment

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#### **Recommendation**

Staff recommends the Town Council approve the attached resolution authorizing the Town Manager to enter into a contract with Geocon Consultants, Inc., for \$31,786 for Phase 2 Environmental Site Assessment for the Town-owned property at 3800 Taylor Road (WW Moulding). This amount includes the base amount of \$28,897 plus a 10 percent contingency, which can only be used upon Town Manager authorization.

#### **Issue Statement and Discussion**

The Town of Loomis entered hired Geocon Consultants, Inc., to update the firm's previous Phase 1 Environmental Site Assessment (which was done in 2004) as part of the Town buying the land along the railroad tracks from Union Pacific. That update, which is not part of this proposed contract, produced enough concern by Geocon that the firm recommended a Phase 2 study be performed to ascertain the level of potential contamination on the site. The Town cannot move forward with any redevelopment of the site until the level of potential contamination is documented.

Staff is prepared to answer any questions you may have.

#### **CEQA Requirements**

There are no CEQA implications associated with the recommended action.

#### **Financial and/or Policy Implications**

The base amount of \$28,897 plus the 10 percent contingency of \$2,889 will be funded through current year excess revenue over expenditures.

#### **Attachments**

- A. Resolution
- B. Geocon Phase 2 ESA Proposal

**TOWN OF LOOMIS**

**RESOLUTION NO. 19 – \_\_**

**A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF LOOMIS  
AWARDING A CONTRACT WITH GEOCON CONSULTANTS, INC. FOR THE PHASE 2  
ENVIRONMENTAL SITE ASSESSMENT FOR 3800 TAYLOR ROAD  
AND AUTHORIZING TOWN MANAGER TO EXECUTE AN AGREEMENT  
ACCEPTABLE TO THE TOWN FOR PROVIDING SUCH SERVICES**

**WHEREAS**, The Town owns property located at 3800 Taylor Road; and

**WHEREAS**, in November 2018 the Town hired Geocon Consultants, Inc., to update its previous Phase 1 Environmental Site Assessment from 2004; and

**WHEREAS**, the results of that updated Phase 1 ESA indicated the need for additional site assessment; and

**WHEREAS**, Geocon Consultants, Inc. is uniquely qualified to conduct the Phase 2 ESA because of the firm's previous work on the site.

**NOW, THEREFORE, IT IS HEREBY RESOLVED** that the Town Council of the Town of Loomis hereby authorizes the Town Manager to execute a contract acceptable to the Town for the Phase 2 ESA for the Town-owned property located at 3800 Taylor Road in the amount of \$31,786.

**BE IT FURTHER RESOLVED**, the contract amount of \$31,786 includes the base amount of \$28,897 plus a 10 percent contingency of \$2,889. The Town Manager is hereby authorized to allow Geocon Consultant, Inc. expenses using the contingency upon Town Manager approval.

**PASSED AND ADOPTED** this 12<sup>th</sup> day of March 2019, by the following roll call vote:

AYES:  
NOES:  
ABSENT:  
ABSTAINED:

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
Town Clerk

**GEOCON**  
CONSULTANTS, INC.

G E O T E C H N I C A L ■ E N V I R O N M E N T A L ■ M A T E R I A L S



Proposal No. S8321-03-14P  
March 7, 2019

Sean Rabé, Town Manager  
Town of Loomis  
3665 Taylor Road  
Loomis, California 95650

Subject:       CHANGE ORDER REQUEST  
                  PHASE II ENVIRONMENTAL SITE ASSESSMENT AND ASBESTOS-CONTAINING  
                  MATERIALS AND DETERIORATED LEAD-CONTAINING PAINT SURVEY  
                  3800 TAYLOR ROAD  
                  LOOMIS, CALIFORNIA

Mr. Rabé:

In accordance with your request, Geocon Consultants, Inc. is pleased to provide the Town of Loomis (the Client) with this change order request to perform Phase II Environmental Site Assessment and an asbestos-containing materials (ACM) and deteriorated lead-containing paint (LCP) survey at 3800 Taylor Road (the Site) in Loomis, California. The approximate 4.08-acre Site consists of three parcels bordered to the south by Taylor Road and north by a Union Pacific railroad mainline. The Placer County assessor's parcel numbers for the Site are: 044-133-003, 044-080-063 and 044-121-074.

### BACKGROUND

We completed a Phase I Environmental Site Assessment (ESA) report for the Site in February 2019 that identified the following areas of concern:

- diesel-impacted soil and groundwater in the area of the former diesel aboveground storage tank (AST);
- stained soil around the drum south of a former mill building;
- railroad spur tracks that existed on the Site from as early as 1938 to sometime prior to 1998; and
- given the age of the former mill building and storage buildings, some of them may contain ACM and deteriorated LCP.

We recommended performing a Phase II ESA at the Site to evaluate potential subsurface impacts to soil and groundwater within the identified areas of concern. We also recommended an ACM and deteriorated LCP survey of the site buildings.

## **PURPOSE AND OBJECTIVES**

### **Phase II ESA**

The purpose of the Phase II ESA will be to identify and delineate soil and potentially groundwater impacted with diesel, metals, or other potential contaminants of concern (COCs) associated with former site use. The objective of the Phase II ESA will be to excavate exploratory test pits to identify the extent of soil contamination near the former diesel AST and stained soil around a drum located south of the former mill building, and to assess soil near the former railroad spur tracks and along property line adjacent to the current railroad right-of-way and collect representative soil samples to have them analyzed for COCs. The COCs include petroleum hydrocarbons, metals, and volatile organic compounds (VOCs). If the Central Valley Regional Water Quality Control Board (CVRWQCB) determines that additional groundwater samples are required (groundwater data was collected from the Site in 2004 and 2008) we will advance borings to collect representative groundwater samples to have them analyzed for diesel. The results of analysis will be used to determine if these COCs are present at concentrations that might warrant removal to protect the health of future site users or the environment.

### **ACM and Deteriorated LCP Survey**

The purpose of the ACM and deteriorated LCP survey will be to assess the site buildings for apparent suspect ACM and deteriorated LCP in order to inform the Client and their subcontractors of the locations, quantities, and concentrations of asbestos and lead prior to potential demolition of the structure. The objective of the ACM and deteriorated LCP survey will be to collect an appropriate number of representative samples of suspect materials and have them analyzed for asbestos and lead.

## **SCOPE OF SERVICES**

Our scope of services will include the following:

### **PHASE II ESA**

We propose that the Phase II ESA include the following tasks:

- Task 1 – Pre-field activities: Mark and clear excavation locations for underground utilities, clear locations with a private utility locator, and retain a laboratory subcontractor for analysis of soil samples.
- Task 2A – Complete up to 10 exploratory backhoe trenches to depths between 1 and 10 feet to facilitate soil sampling.
- Task 2B – If groundwater is not encountered in the backhoe trenches and if the CVRWQCB requests groundwater data from the Site, we will obtain a permit and retain the services of a C57-licensed subcontractor to advance hollow-stem auger borings at the former diesel AST location to facilitate soil and groundwater sampling.
- Task 3 – Perform analytical testing of selected soil samples and groundwater samples (if obtained) including petroleum hydrocarbons, heavy metals and volatile organic compounds.
- Task 4 – Prepare a Phase II ESA Report.
- Task 5 – Coordination with the PCEHD.

## **Task 1 – Pre-field Activities**

### ***Utility Clearance***

We will mark the proposed excavation at the Site (Figure 1) and clear locations with a private utility locator. We will then contact Underground Service Alert (USA) a minimum of 72 hours prior to the start of field activities to attempt to delineate subsurface public utilities and conduits in proximity to the proposed sampling locations. Sampling and excavation locations will be adjusted as necessary to avoid any identified utility lines.

### ***Laboratory Subcontractor***

We will retain the services of Advanced Technology Laboratories (ATL) of Signal Hill, California, for laboratory analysis of soil samples. ATL is accredited by the State of California's Department of Health Services Environmental Laboratory Accreditation Program and the National Environmental Laboratory Accreditation Program.

## **Task 2A – Field Activities: Excavation and Soil Sample Collection**

We will use a backhoe to excavate up to 10 exploratory test pits throughout the Site. The proposed exploratory test pit locations are shown on Figure 1. The depths of each test pits will range from 1 foot to a maximum of 10 feet, depending on observed contamination or presence of groundwater. Our field geologist will log fill (if observed), underlying soil according to the Unified Soil Classification System (ASTM D-2487), and any materials/features exposed in the test pits. Soil samples will be collected based on field observations by driving a 2-inch-diameter by 6-inch-long stainless steel sample tube into soil in the backhoe bucket. Sample tubes will be capped with Teflon sheets and tight-fitting plastic caps, then labeled with a unique sample identification number, date and time of collection, collector's initials, and project name and number. The sample tubes will then be placed in a clean, one-gallon plastic Ziploc bag and stored in a chilled cooler for delivery to the ATL. Quality assurance/quality control procedures will include providing chain-of-custody documentation for each sample submitted to the laboratory.

## **Task 2B – Field Activities: Hollow-Stem Auger Drilling for Groundwater (If Needed)**

If groundwater is not encountered in the backhoe trenches and if the CVRWQCB requests groundwater data from the Site, we will prepare a workplan and obtain an exploratory boring permit as required by the Placer County Environmental Health Department (PCEHD) to advance up to two borings to groundwater. The borings will be advanced with a hollow-stem auger by a C57-licensed subcontractor in the area of the former diesel AST (Figure 1). Soil samples will be collected at least every five feet and logged according to the Unified Soil Classification System. Groundwater samples will be obtained by lowering a bailer through the hollow-stem auger or using a check-valve connected to new polyethylene tubing. Water from the bailer or tubing will be decanted directly in to the laboratory provided sample containers. Sample containers will be labeled with a unique sample identification number, date and time of collection, collector's initials, and project name and number, then be placed in a clean, one-gallon plastic Ziploc bag and stored in a chilled cooler for delivery to the ATL. Quality assurance/quality control procedures will include providing chain-of-custody documentation for each sample submitted to the laboratory.

Drill cuttings and decontamination water generated during this investigation will be stored in steel, Department of Transportation-approved, 55-gallon drums. The containers will be stored in a secure location onsite. The contents of the drums and the dates of collection will be clearly marked on appropriate labels for subsequent disposal based on field observations and soil sample screening and analytical results. Used tubing and personal protective equipment will be placed in plastic bags and placed in a municipal refuse dumpster.

### **Task 3 – Laboratory Analysis**

ATL will analyze soil samples collected from the exploratory test pits for diesel- and oil-range organics (DRO/ORO) by United States Environmental Protection Agency (EPA) Method 8015, California Administrative Manual (CAM) 17 metals by EPA Method 6010B, organochlorine pesticides by EPA Method 8081A, and/or VOCs by EPA Method 8260B. Laboratory analyses will be conducted on a standard 5 to 7 working-day turnaround time.

### **Task 4 – Reporting**

We will present the findings of our Phase II ESA in a report. The report will describe the field methods used and our observations of soil encountered at the sampling and excavation locations. Laboratory data will be presented in tabular and graphical formats (as appropriate), and we will provide conclusions and recommendations regarding removal of impacted soil (if any) based on our observations and the laboratory analysis results. The report will include copies of the laboratory reports in an appendix.

### **Task 5 – Coordination with CVRWQCB**

We contacted PCEHD to inquire if they might provide oversight for further investigation and remedial action at the Site. West Bourgault at PCEHD indicated that PCEHD is seldomly providing regulatory oversight for cleanup projects. He stated that since groundwater beneath the Site maybe impacted with diesel, the CVRWQCB should provide regulatory oversight.

Therefore, with the Client's approval, our findings may be reported to the CVRWQCB for their review and discussion. Additionally, if warranted, the CVRWQCB may be engaged for regulatory oversight under their Site Cleanup Program for any further investigation or remedial action. Costs for this task assume one possible meeting with the CVRWQCB and various phone and email communications.

## **ACM AND DETERIORATED LCP SURVEY**

Chris Giuntoli or David Watts with Geocon will perform the ACM and deteriorated LCP survey. Mr. Giuntoli is a California Department of Occupational Safety and Health (Cal/OSHA) certified asbestos consultant (CAC), Certification No. 02-3163 (expiration June 14, 2019), and Certified Lead Paint Inspector/Assessor with the California Department of Public Health (DPH), Certification No. I-5502 (expiration June 19, 2019). Mr. Watts is a Cal/OSHA CAC, certification No. 98-2404 (expiration September 16, 2019), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California DPH, certification numbers I-1734 and M-1734 (expiration December 4, 2019). Additionally, Cord Dennig with Geocon may assist with the ACM and deteriorated LCP survey as necessary. Mr. Dennig is a Cal/OSHA Certified Site Surveillance Technician (CSST) Certification No. 15-5400 (expiration April 15, 2019).

We propose that the ACM and deteriorated LCP survey include the following tasks:

- Task 1 – Conduct ACM and deteriorated LCP survey of the site buildings;
- Task 2 – Laboratory analysis of suspected ACM and deteriorated LCP samples; and
- Task 3 – Prepare an ACM and deteriorated LCP survey report.

Following are descriptions of each of these tasks.

### **Task 1 – ACM and Deteriorated LCP Survey**

During the ACM and deteriorated LCP survey, our CAC/lead inspector will:

- Conduct a walkthrough inspection of the site buildings to identify and inventory suspect ACMs and potential deteriorated LCP.
- Collect up to 60 bulk samples of suspect ACM (i.e., one to three samples per miscellaneous material, three samples of each type of thermal system insulation (TSI), samples of friable surfacing materials, and samples of nonfriable surfacing materials as deemed appropriate by the inspector).

We anticipate that the site buildings will be vacant at the time of the ACM and deteriorated LCP survey and therefore will use destructive sampling techniques during the asbestos survey. Destructive sampling means that we will look for suspect ACM that may be concealed beneath flooring or above ceilings. Interior building surfaces will sustain slight damage to sample suspect ACMs. We will also sample suspect ACMs located on the exterior walls and roofs of the site buildings. The sampling process may invalidate any current roof warranty and Geocon cannot guarantee our patching process against future leaks.

- Collect up to eight bulk samples of deteriorated LCP using techniques presented in United States Department of Housing and Urban Development (HUD) guidelines. In addition, each painted area sampled will be evaluated for evidence of deterioration such as flaking or cracking.

*It is not Geocon's intent during this survey to conduct an evaluation of lead-based paint hazards in accordance with HUD guidelines. HUD protocol generally requires a very extensive sampling strategy that includes sampling of paint on each surface type (wall, ceiling, window sill, window frame, door frame, molding, etc.) in each room.*

### **Task 2 – Laboratory Analysis of Samples**

We will retain the services of EMSL Analytical, Inc. (EMSL) of San Leandro, California, for laboratory analysis of bulk material samples for asbestos. EMSL is accredited by the United States Department of Commerce National Institute of Standards and Technology for asbestos fiber analysis.

We will submit up to 60 bulk samples to EMSL for asbestos analysis by polarized light microscopy (PLM). Up to eight of the bulk samples may be additionally analyzed by PLM point counting (400 points). Laboratory analysis for asbestos will be conducted on a standard 10-day turnaround time. Results of analysis will be presented as estimated percentages of asbestos by type (e.g., amosite, chrysotile, crocidolite).

When the asbestos content is visually estimated to be less than 10% in a material, the Client may elect to (1) assume the amount is greater than 1% and treat the material as asbestos-containing, or (2) request verification of the amount by point count. If the results obtained by point count and visual estimation are different, the point count result must be used. When no asbestos is detected by PLM, point count will not be necessary.

We will submit up to eight deteriorated paint samples to ATL for lead analyses by EPA Test Method 6010B under chain-of-custody protocol. Laboratory analysis for lead will be conducted on a standard 5- to 7-working-day turnaround time.

### **Task 3 – Reporting**

We will prepare an ACM and deteriorated LCP survey report for the Site that will include a general property description, sample/laboratory analytical results, ACM and deteriorated LCP quantities, types, condition, and locations, photographs of identified ACM and deteriorated LCP, and inspector/laboratory certification data. Site drawings illustrating sample locations will also be included in the report. The drawings will be proportional, but not to scale.

A reasonable effort will be made to identify suspect ACM and deteriorated LCP. However, this does not imply a guarantee that all possible sources of asbestos and deteriorated LCP will be identified as certain materials may be hidden by walls, beneath flooring, may be otherwise inaccessible. During future demolition operations, suspect ACMs and potential deteriorated LCP may be uncovered. These materials should be treated as asbestos-containing materials and LCP, respectively, until sampling and analysis indicate otherwise.

### **PROPOSED FEE**

We will perform the scope of services outlined herein for the following estimated fee:

<b>Services</b>	<b>Fee</b>
Phase II ESA – soil assessment only	\$12,390
Phase II ESA – groundwater assessment add-on	\$7,017
Coordination with the CVRWQCB	\$2,315
ACM and LCP Survey	\$7,175
Total	\$28,897

The attached detailed cost estimates show a breakdown of labor hours and rates, equipment costs, and laboratory costs for the Phase II ESA, Coordination with the CVRWQCB, and the ACM and LCP survey. Our fees are based on our *2017 Schedule of Fees/Terms and Conditions*, which is incorporated into and made a part of this change order, and current subcontractor rates. If we encounter unforeseen conditions, or if we experience delays or circumstances beyond our control, we will notify you immediately to discuss modifications to the scope of services and/or project fees. Consultation services rendered after the issuance of the reports would be billed on a time and materials basis and would be additive to the proposed fee.

We have prepared this change order with the understanding that this is not a prevailing wage project (not a public works improvement project/excess land disposition). If Client should conclude this is a prevailing wage project, please so advise Geocon in writing immediately. If failure to so advise Geocon results in the imposition of fines, penalties, claims or damages against Geocon, Client will reimburse Geocon for all costs and expenses.



## CHANGE ORDER AGREEMENT

If this change order request meets with your approval, please sign the attached Change Order Agreement for Professional Services and return it to the undersigned.

We appreciate the opportunity to provide you with a proposal for this project and look forward to working with you. Please contact the undersigned if there are any questions concerning this proposal or if we may be of further service.

Sincerely,

**GEOCON CONSULTANTS, INC.**

Three handwritten signatures in green ink are displayed horizontally. The first signature is on the left, the second in the middle, and the third on the right.

Nicole Hastings-Bethel  
Project Environmental Scientist

Matthew Tidwell  
Senior Staff Geologist

John Juhrend, PE, CEG  
Senior Engineer

Enclosures:    Change Order Agreement  
                    Cost Estimates  
                    2017 Schedule of Fees

# GEOCON

CONSULTANTS, INC.

G E O T E C H N I C A L ■ E N V I R O N M E N T A L ■ M A T E R I A L S



## CHANGE ORDER AGREEMENT FOR PROFESSIONAL SERVICES

Page 1 of 1

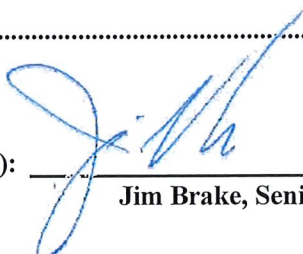
Geocon Project No.: S8321-03-14P  
Contract Date: December 17, 2018  
Project: 3800 Taylor Road, Loomis  
  
Change Order No.: 1  
Date: March 7, 2019  
  
Client's Name: Town of Loomis  
Client's Address: 3665 Taylor Road  
Loomis, California  
  
Attention: Sean Rabé, Town Manager  
Telephone: 916.652.1840

We hereby agree to make the following changes:

Original Contract Amount (Geocon Project No. S8321-03-13) .....\$ 3,500

Change Order Agreement #1 .....\$ 28,897

Revised Contract Amount .....\$ 32,397

Authorized Signature (Geocon):  \_\_\_\_\_  
Jim Brake, Senior Geologist/Vice President

Accepted: The above estimated fees/costs relating to this Change Order are satisfactory and are hereby accepted. All services to be performed under same terms and conditions as specified in the original Contract.

Authorized Signature (Client/Owner): \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_



COST ESTIMATE

Project Name 3800 Taylor Road, Loomis, California

Project Scope Soil and groundwater sampling and analyses for petroleum hydrocarbons, metals and VOCs.

TASK	QUANTITY	UNITS	RATE	MARKUP	AMOUNT
<b><u>TASK 1 - Pre-field Activities: utility clearance, field equipment prep, and subcontractor procurement</u></b>					
Senior Geologist	1	HRS	\$160.00	1.00	\$160.00
Senior Staff Geologist	8	HRS	\$120.00	1.00	\$960.00
Advanced Geological Services	1	LUMP	\$1,000.00	1.15	\$1,150.00
Mileage	50	MILES	\$0.75	1.00	\$37.50
<i>Task 1 Subtotal</i>					\$2,307.50
<b><u>TASK 2A - Field Activities: Excavation and Sample Collection</u></b>					
Senior Geologist	1	HRS	\$160.00	1.00	\$160.00
Senior Staff Geologist	12	HRS	\$120.00	1.00	\$1,440.00
Equipment Operator	12	HRS	\$100.00	1.00	\$1,200.00
Backhoe	1	LUMP	\$600.00	1.15	\$690.00
Diesel fuel	1	LUMP	\$50.00	1.15	\$57.50
Mileage	100	MILES	\$0.75	1.00	\$75.00
Level D PPE/Decon Rinse	1	DAY	\$50.00	1.00	\$50.00
Sampling Supplies (Hand-auger, DI Water, Alconox®)	1	DAY	\$100.00	1.00	\$100.00
<i>Task 2 Subtotal</i>					\$3,772.50
<b><u>TASK 2B - Field Activities: Groundwater Sampling</u></b>					
Senior Geologist	2	HRS	\$160.00	1.00	\$320.00
Senior Staff Geologist	20	HRS	\$120.00	1.00	\$2,400.00
Technical Illustrator (workplan for County)	1	HRS	\$85.00	1.00	\$85.00
Word Processor/Technical Editor	2	HRS	\$75.00	1.00	\$150.00
County Permit	2	EACH	\$472.00	1.15	\$1,085.60
Mileage	50	MILES	\$0.75	1.00	\$37.50
Driller (assumes half day)	0.5	DAY	\$2,700.00	1.15	\$1,552.50
Driller Mobilization	1	EVENT	\$600.00	1.15	\$690.00
Drum Disposal	5	EACH	\$95.00	1.15	\$546.25
Laboratory Analysis of Groundwater Samples					
Petroleum Hydrocarbons by EPA 8015B	2	TEST	\$75.00	1.00	\$150.00
<i>Task 2A Subtotal</i>					\$7,016.85
<b><u>TASK 3 - Laboratory Analysis of Soil Samples</u></b>					
Senior Staff Geologist	1	HRS	\$120.00	1.00	\$120.00
<b><u>Advanced Technology Laboratories</u></b>					
Petroleum Hydrocarbons by EPA 8015B	10	TEST	\$75.00	1.00	\$750.00
CAM 17 Metals by EPA 6010B	10	TEST	\$170.00	1.00	\$1,700.00
Soluble Lead by EPA Method 6010B (if needed)	4	TEST	\$95.00	1.00	\$380.00
Organochlorine Pesticides by EPA Method 8081A	4	TEST	\$125.00	1.00	\$500.00
Volatile Organic Compounds by EPA 8260	2	TEST	\$150.00	1.00	\$300.00
<i>Task 3 Subtotal</i>					\$3,750.00
<b><u>TASK 4 - Preparation of Report</u></b>					
Senior Geologist	2	HRS	\$160.00	1.00	\$320.00
Senior Staff Geologist	16	HRS	\$120.00	1.00	\$1,920.00
Technical Illustrator	2	HRS	\$85.00	1.00	\$170.00
Word Processor/Technical Editor	2	HRS	\$75.00	1.00	\$150.00
<i>Task 4 Subtotal</i>					\$2,560.00
<b><u>TASK 5 - Coordination with Central Valley Regional Water Quality Control Board</u></b>					
Senior Geologist	4	HRS	\$160.00	1.00	\$640.00
Senior Staff Geologist	12	HRS	\$120.00	1.00	\$1,440.00
Technical Illustrator	1	HRS	\$85.00	1.00	\$85.00
Word Processor/Technical Editor	2	HRS	\$75.00	1.00	\$150.00
<i>Task 5 Subtotal</i>					\$2,315.00
<b>Total:</b>					<b>\$21,721.85</b>



COST ESTIMATE

Project Name 3800 Taylor Road, Loomis, California

Project Scope Pre-demolition asbestos and lead-containing paint survey

TASK	QUANTITY	UNITS	RATE	MARKUP	AMOUNT
<b><u>TASK 1 - Field Activities: Asbestos and lead-containing paint survey</u></b>					
Project Scientist	13	HRS	\$125.00	1.00	\$1,625.00
Mileage	50	MILES	\$0.75	1.00	\$37.50
Level D PPE	1	DAY	\$50.00	1.00	\$50.00
Field Supplies (bags, etc.)	1	DAY	\$25.00	1.00	\$25.00
<i>Task 1 Subtotal</i>					\$1,737.50
<b><u>TASK 2 - Laboratory Analysis of Bulk Asbestos and Paint Samples</u></b>					
<b><i>Asbestech</i></b>					
PLM - Asbestos	60	TEST	\$15.00	1.15	\$1,035.00
PLM point count (400) - Asbestos	8	TEST	\$20.00	1.15	\$184.00
PLM point count (1,000) - Asbestos	6	TEST	\$65.00	1.15	\$448.50
<b><i>Advanced Technology Laboratories (ATL)</i></b>					
Total Lead - Paint	8	TEST	\$20.00	1.00	\$160.00
WET Lead - Paint	5	TEST	\$95.00	1.00	\$475.00
TCLP Lead - Paint	3	TEST	\$95.00	1.00	\$285.00
<i>Task 2 Subtotal</i>					\$2,587.50
<b><u>TASK 3 - Report Preparation</u></b>					
Senior Scientist	2	HRS	\$165.00	1.00	\$330.00
Project Scientist	16	HRS	\$125.00	1.00	\$2,000.00
Technical Illustrator	4	HRS	\$90.00	1.00	\$360.00
Word Processor/Technical Editor	2	HRS	\$80.00	1.00	\$160.00
<i>Task 3 Subtotal</i>					\$2,850.00
<b>Total:</b>					<b>\$7,175.00</b>



## 2017 SCHEDULE OF FEES

### PROFESSIONAL SERVICES

Engineering Assistant/Laboratory Technician .....	\$80/hr.
Engineering Field Technician/Special Inspector I .....	75/\$100(PW)*hr.
Engineering Field Technician/Special Inspector II .....	85/110(PW)*hr.
Engineering Field Technician/Special Inspector III .....	95/120 (PW)*hr.
Word Processor/Technical Editor .....	75/hr.
Engineering/Research Assistant/Technical Illustrator .....	90/hr.
Project Coordinator/GIS Specialist .....	95/hr.
Staff Engineer/Geologist .....	110/hr.
Senior Staff Engineer/Geologist .....	120/hr.
Project Engineer/Geologist .....	130/hr.
Senior Project Engineer/Geologist .....	140/hr.
Senior Engineer/Geologist/Geophysicist .....	160/hr.
Associate Engineer/Geologist .....	185/hr.
Principal Engineer/Geologist/Litigation Support .....	225/hr.
Deposition or Court Appearance .....	400/hr.
Overtime and Saturday Rate .....	1.5 X Regular Hourly Rate
Sunday and Holiday Rate .....	2 X Regular Hourly Rate
Minimum Professional Fee .....	\$500/Project
Minimum Field Services Fee (per day or call-out) .....	2 Hours
*Prevailing Wage (PW) per requirements of California Labor Code §720, et. Seq.	

### TRAVEL

Personnel .....	Regular Hourly Rate
Subsistence (Per Diem) .....	\$150/day
Vehicle Mileage .....	0.75/mile

### EQUIPMENT & ANALYTICAL TESTS

Nuclear Gauge .....	Included in Technician hourly Rate	Level D PPE/Decon Rinse Equipment .....	\$50/day
Pick-up Truck .....	\$125/day	pH/Conductivity/Temperature Meter .....	50/day
Equipment Truck .....	200/day	55-gallon drum .....	55/ea.
Direct-Push Rig/Operator .....	165/190(PW)*hr	TPHg/BTEX (EPA 8015M/8021B) .....	70/ea.
Direct-Push Sample Liner .....	10/ea.	TPHg/BTEX/MTBE (EPA 8015M/8260B) .....	100/ea.
Equipment Trailer .....	100/day	TPHd/TPHmo (EPA 8015M) .....	75/ea.
Wenner 4-Pin Earth Resistivity Meter .....	150/day	Fuel Oxygenate Compounds (EPA 8260B) .....	110/ea.
Coring Machine (concrete, asphalt, masonry) .....	175/day	Volatile Organic Compounds (EPA 8260B) .....	150/ea.
Dynamic Cone Penetrometer .....	200/day	Semi-Volatile Organic Compounds (EPA 8270) .....	300/ea.
Dilatometer (DMT) Test Equipment .....	800/day	CAM 17 Metals (EPA 6010B) .....	170/ea.
Generator or Air Compressor .....	100/day	Single Metal (EPA 6010B) .....	20/ea.
GPS Unit .....	160/day	Pesticides (EPA 8081) .....	125/ea.
Drive-Tube Sampler or Hand-Augur .....	40/day	Soil pH (EPA 9045C) .....	20/ea.
Soil Sample Tube (Brass or Stainless) .....	10/ea.	WET or TCLP Extraction .....	75/ea.
Water Level Indicator .....	40/day	Sample Compositing .....	20/composite.
Battery-Powered Pump .....	75/day	48-hour Turnaround Time .....	60% surcharge
Photo-Ionization Meter .....	125/day	24-hour Turnaround Time .....	100% surcharge

### LABORATORY TESTS

#### COMPACTION CURVES

4-inch mold (D1557/D698) .....	\$175/ea.
6-inch mold (D1557/D698) .....	190/ea.
California Impact (CAL216) .....	200/ea.
Check Point .....	85/ea.

#### SOIL AND AGGREGATE STABILITY

Resistance Value, R-Value (D2844/CAL301) .....	\$275/ea.
R-Value, Treated (CAL301) .....	300/ea.
California Bearing Ratio (D1883) .....	175/pt.
Stabilization Ability of Lime (C977) .....	180/ea.



## SOIL AND AGGREGATE PROPERTIES

#200 Wash (D1140/C117).....	\$60/ea.	Moisture Determination, tube sample (D2216).....	\$20/ea.
Wet Sieve Analysis to #200 (D422/CAL202) .....	100/ea.	Moisture Determination and Unit Weight (D2937).....	40/ea.
Hydrometer Analysis (D422).....	150/ea.	Atterberg Limits: Plasticity Index (D4318).....	175/ea.
Sieve Analysis with Hydrometer (D422).....	180/ea.	Sand Equivalent (D2419/CAL217) .....	90/ea.
Specific Gravity, Soil (D854) .....	70/ea.	pH and Resistivity (CAL643).....	120/ea.
Specific Gravity Coarse Aggregate (C127) .....	50/ea.	Sulfate Content (CAL417) .....	90/ea.
Specific Gravity Fine Aggregate (C128) .....	68/ea.	Chloride Content (CAL422).....	50/ea.
Cut/Extract Shelby Tube.....	50/ea.	Organic Content (D2974).....	50/ea.

## SHEAR STRENGTH

Unconfined Compression (D2166) .....	\$100/ea.
Direct Shear (D3080) (3pt).....	300/ea.
Unconsolidated-Undrained Triaxial Shear (D2850) .....	125/pt.
Unconsolidated-Undrained Triaxial Staged (D2850).....	175/ea.
Consolidated-Undrained Triaxial Shear (D4767) .....	300/pt.
Consolidated-Undrained Triaxial Staged (D4767) .....	375/ea.
Consolidated-Drained Triaxial Shear (EM1110).....	400/pt.
Consolidated-Drained Triaxial Staged (EM1110) .....	500/ea.

## PERMEABILITY, CONSOLIDATION AND EXPANSION

Permeability, Flexible Wall (D5084).....	\$265/ea.
Permeability, Rigid Wall (D5856).....	255/ea.
Consolidation (D2435) .....	50/pt.
Expansion Index (D4829/UBC 29-2) .....	175/ea.

## AGGREGATE QUALITY

Sieve Analysis to #200 (C136) .....	\$100/ea.
L.A. Rattler Test (500 rev.) (C131) .....	185/ea.
Durability Index (D3744/CAL229) .....	165/ea.
Fine Aggregate Angularity (CAL 234).....	125/ea.
Flat and Elongated Particles (D4791/CAL 235) .....	150/ea.
Percent Crushed Particles (CAL205) .....	150/ea.

## CONCRETE / MASONRY / REINFORCING STEEL

Compressive Strength, Cast Cylinders (C39).....	\$25/ea.
Compressive Strength, Cores (C42).....	40/ea.
Flexural Strength Beam (C78/C293).....	80/ea.
Splitting Tensile Test (C496) .....	69/ea.
Mix Design Review.....	200/ea.
Trial Batch .....	475/ea.
Rebar Tensile / Bend (up to #11/#11 and Larger) .....	175/200/ea.
CMU Compressive Strength (C140) .....	\$60/ea.
Compressive Strength, Grout (C1019/UBC 21-19).....	25/ea.
Compressive Strength, Mortar (C109/UBC 21-15,16).....	25/ea.
CMU Unit Wt., Dimen., Absorption (C140) .....	60/ea.
Compressive Strength, Masonry Prism (C1314) .....	115/ea.

## HOT MIX ASPHALT

Density, Hveem (D2726/CAL308) .....	\$100/pt.
Stabilometer Value (D1560/CAL366).....	175/ea.
Theoretical Max. Specific Gravity (D2041/CAL309) .....	175/ea.
Extraction/Sieve Analysis (C136/CAL202) .....	150/ea.
HMA Core Unit Weight (D1188/CAL308).....	60/ea.
% Asphalt, Ignition Method (D6307/CAL382).....	100/ea.
% Asphalt, Ignition Calibration (D6307/CAL382).....	200/ea.
% Voids (CAL 367).....	275/ea.

**\*2X surcharge on rush turnaround for laboratory testing**

## TERMS AND CONDITIONS

- Listed are typical charges for the services most frequently performed by Geocon. Prices for unlisted services as well as special quotations for programs involving volume work will be provided upon request. Laboratory test prices shown are for laboratory work only, and include reporting of routine results not calling for comments, recommendations or conclusions.
- Sampling and testing is conducted in substantial conformance with the latest applicable or designated specifications of the American Society for Testing and Materials, Caltrans, American Association of State Highway and Transportation Officials, or other pertinent agencies.
- Saturday, night work, and overtime hours are charged at time and one-half; Sundays and holidays at double time. Per diem may apply when location of work dictates.
- Equipment and materials will be billed at cost plus 15%. Outside services including subcontractors and rental of special equipment are billed at cost plus 15%. Hourly services are billed portal to portal from closest office in accordance with the stated hourly rates herein, with a minimum two-hour charge.
- Invoices will be submitted at four-week intervals. Terms of payment are met upon presentation of invoice. Invoices become delinquent thirty (30) days from invoice date and subject to one and one-half percent (1-1/2%) service charge per month, or the maximum rate allowed by law, whichever is lower. If Client objects to all or any portion of any invoice, Client will so notify Geocon in writing within fourteen (14) calendar days of the invoice date, identify the cause of disagreement, and pay that portion of the invoice not in dispute. The parties will immediately make every effort to settle the disputed portion of the invoice. Payment on delinquent invoices will first be applied to accrued interest and then to the principal amount. All time spent and expenses incurred (including any attorney's fees and costs) in connection with collection of any delinquent amount will be paid by Client to Geocon per Geocon's current fee schedule.
- Client and Geocon shall allocate certain of the risks so that, to the fullest extent permitted by law, Geocon's (the term "Geocon" includes Geocon's partners, officers, directors, employees, agents, affiliates, subcontractors and subconsultants) total aggregate liability to Client is limited to the greater of \$25,000 or the total compensation received from Client by Geocon for services rendered on this project, for any and all of Client's injuries, damages, claims, losses, expenses, or claim expenses arising out of this Agreement from any cause or causes, including attorneys' fees and costs which may be awarded to the prevailing party, and Client agrees to indemnify and hold harmless Geocon from and against all liabilities in excess of the monetary limit established above.  
  
Client and Geocon shall allocate certain of the other risks so that, to the fullest extent permitted by law, Client shall limit Geocon's total aggregate liability to all third parties, including contractors, subcontractors of all tiers, materialmen, and others involved in Client's project, as well as persons and other entities not involved in the project, to the greater of \$50,000 or the total compensation received from Client by Geocon for services rendered on this project, for any and all injuries, damages, cause or causes, including attorneys' fees and costs which may be awarded to the prevailing party, and Client agrees to indemnify and hold harmless Geocon from and against all liabilities in excess of the monetary limit established above, including all liability incurred by Geocon for acts, errors, or omissions, pursuant to entering into agreements with third parties on behalf of Client in order to obtain access or entry onto property not owned by Client. Client agrees to notify all contractors and subcontractors of any limitation of Geocon's liability to them, and require them to abide by such limitation for damages suffered by any contractor or subcontractor arising from Geocon's actions or inactions. Neither the contractor nor any subcontractor assumes any liability for damages to others which may arise on account of Geocon's actions or inactions.