APPENDIX A

NOTICE OF PREPARATION (NOP)
AND
NOP COMMENTS RECEIVED

Notice of Preparation

To: Interested Parties

Date: June 10, 2013

Subject: Notice of Preparation of Draft Environmental Impact Report
100 Prospect Avenue, M-13-003

Lead Agency: Town of Los Gatos
Community Development Department
110 East Main Street
Los Gatos, CA 95030
Contact: Suzanne Avila: (408) 354-6875 or *savila@losgatosca.gov*

NOTICE IS HEREBY GIVEN THAT the Town of Los Gatos, as Lead Agency under the California Environmental Quality Act (CEQA), will prepare an Environmental Impact Report (EIR) for the proposed project, which includes a Vesting Tentative Tract Map. Project approval would allow for the eventual removal of existing facilities on the 10.3-acre site and development of 17 single-family homes and related infrastructure. This NOP includes a project description, exhibits, and an overview of the potential impacts that will be addressed in the Environmental Impact Report (EIR).

Project Title: Sisters of the Holy Names of Jesus and Mary, Vesting Tentative Tract Map, M-13-003

Project Location: The subject property is located at 100 Prospect Avenue, west of Reservoir Road, and south and east of College Avenue; refer to **Figure 1**, Project Location.

Project Description: The property is currently developed with approximately ±85,000 square feet (s.f.) of space within various one-, two-, and three-story buildings. The two largest buildings (±72,000 s.f.) consist of 100 bedrooms for senior living, a chapel, dining facilities, retreat/conference, and supporting facilities.

The project applicant, Sisters of the Holy Names of Jesus and Mary, is requesting approval of a proposed Vesting Tentative Tract Map application, which would allow for the eventual removal of existing facilities on the 10.3-acre site and development of 17 single-family homes and related infrastructure.

The purpose of this notice is: (1) to serve as the Notice of Preparation to potential Responsible Agencies, agencies involved in funding or approving the project, and Trustee Agencies responsible for natural resources affected by the project, pursuant to Section 15082 of the CEQA Guidelines; and (2) to advise and solicit comments and suggestions regarding the preparation of the EIR, environmental issues to be addressed in the EIR, and any related issues, from interested parties in addition to those noted above, including interested or affected members of the public. The Town of Los Gatos requests that any potential Responsible or Trustee Agency responding to this notice do so in a manner consistent with CEQA Guidelines Section 15082(b), including providing specific detail about the scope and content of the environmental information related to the Responsible or Trustee Agency's area of statutory responsibility that must be included in the Draft EIR. See **Attachment A** for summary of probable environmental effects.

All parties that have submitted their names and mailing addresses will be notified as part of the project's CEQA review process. If you wish to be placed on the mailing list or have any questions or need additional information, please contact the person identified below. A copy of the NOP is on the Town of

Los Gatos' website (http://www.losgatosca.gov), is on file at the Town of Los Gatos Community Development Department and Town Clerk Department, located at the address provided below, and is also available at the Los Gatos Public Library, 100 Villa Avenue, Los Gatos, CA 95030.

30-Day NOP Review Period: In accordance with CEQA, should your agency have any comments, it is requested to provide a written response to this NOP within the 30-day NOP review period between June 10, 2013, and July 10, 2013. Written comments must be received at the address below no later than 5:00 p.m. on July 10 2013.

Please indicate a contact person in your response and send it to the following contact:

Suzanne Avila, AICP, Senior Planner
Town of Los Gatos
110 E. Main Street
Los Gatos, CA 95030

Telephone: (408) 354-6875
Email: savila@losgatosca.gov

June 10, 2013
Date

Suzanne Avila

Suzanne Avila, Senior Planner
Town of Los Gatos

2 Attachments

Attachment A
to the Notice of Preparation

Sisters of the Holy Names of Jesus and Mary
Vesting Tentative Tract Map Application
100 Prospect Avenue
M-13-003

Project Location

The subject property is located at 100 Prospect Avenue, west of Reservoir Road, and south and east of College Avenue. Figure 1 shows the project site's location. The property is located at the north end terminus of Prospect Avenue. There are several driveways along Prospect Avenue that provide access to various existing buildings located on the subject property. Residential neighborhoods bound the property on all four sides – north, south, east, and west.

Project Description

The property is currently developed with approximately ±85,000 square feet (s.f.) of space within various one-, two-, and three-story buildings. The two largest buildings (±72,000 s.f.) consist of 100 bedrooms for senior living, a chapel, dining facilities, retreat/conference facilities, and supporting facilities.

The project applicant, Sisters of the Holy Names of Jesus and Mary, is requesting approval of a proposed Vesting Tentative Tract Map application, which would allow for the eventual removal of existing facilities on the 10.3-acre site and development of 17 single-family homes and related infrastructure.

Probable Environmental Effects

Based on preliminary review of the proposed site plan and results of technical studies completed by the applicant's consultants, it appears that the project would not result in any significant environmental impacts that could not be mitigated to a less-than-significant level with recommended mitigation measures. Assuming the applicant will implement all mitigation measures recommended in these technical studies, the environmental review process under CEQA could be fulfilled by preparing an Initial Study/Mitigated Negative Declaration (IS/MND). While preparation of an IS/MND would be legally adequate, the applicant has elected to complete an EIR for this project in order to ensure that all potential environmental impacts are thoroughly addressed and the project is evaluated for consistency with goals and policies of the Town's 2020 General Plan, the Hillside Development Standards and Guidelines, as well as other pertinent local plans. The EIR will address the following topics at a minimum:

- *Land Use and Planning:* The project site has operated as a full-service convent, housing, care, educational, retreat, and religious facility over the past 70 years. The project site is surrounded by single-family residences. Project implementation would change use of this site from institutional use to single-family residential use, increasing land use compatibility with existing surrounding single-family residences. The General Plan designates the project site as Low Density Residential (0 to 5 dwelling units per net acre), and the Zoning Map designates this property as R-1:20 (Single Family Residential, minimum lot size of 20,000 s.f.). The proposed project would be consistent with these General Plan and Zoning designations. The EIR will examine the project's consistency with existing General Plan policies and zoning requirements that pertain to the project site. In addition, GGC will assess the consistency of the project's proposed density and lot sizes with existing densities and lot sizes on surrounding lands. Based on this and other criteria (e.g., project-related noise,

aesthetics/visual, and traffic impacts), land use compatibility with existing surrounding public and residential land uses will be evaluated.

- *Aesthetics:* The project would allow for the eventual removal of existing large-scale religious facilities and development of 17 single-family homes and related infrastructure. The EIR will evaluate whether the project would significantly alter the visual character of the site and neighborhood vicinity from public viewpoint locations, as well as determine whether any public scenic vistas from surrounding areas would be adversely affected by project homes. This analysis will use criteria identified in the Town's Hillside Development Standards and Guidelines (HDSG) to evaluate visual impacts, such as: potential visibility of future homes from viewing platforms; maintaining the natural appearance of the hillsides from all vantage points including the valley floor; protecting the ridgeline; maximizing contiguous natural open space; conserving the site's natural features such as topography, natural drainage, vegetation, wildlife habitats, movement corridors, etc. Since the project is a Tentative Map and there are no specific home designs, the EIR's impact evaluation will be limited to evaluating worst-case visual impacts of proposed building envelopes. All proposed building envelopes and project roads would be located outside the project site's *Least Restrictive Development Area* (as defined by the HDSG), the areas outside 30% slopes or greater and areas covered with oak woodland.

- *Biological Resources:* A biological resources assessment report was completed for the project site by the applicant's consultant, this report will be peer reviewed by the Town's consulting biologist. According to the report, approximately 80% of the project site (8.3 acres) is developed with 85,000 square feet of buildings, paved roads and parking lots, and landscaped gardens. The remaining 20% of the site is covered by oak woodland and this sensitive biological community is located in the western margin of the site where no development is proposed to occur. It consists of a hillside slope that is densely wooded with both native and non-native trees and other vegetation. Although wooded, most of this area has been disturbed from building construction as well as construction of retaining walls, pathways, and roads, as well as maintenance activities including brush clearing and ground cover mowing. No impacts on special-status plant species are expected to occur. Project implementation, however, could adversely affect the sensitive oak woodland community as well as adversely affect special-status wildlife species that have a moderate to high potential to occur in the project area. Results of the arborist's survey and evaluation will be included in the EIR. The EIR will identify existing biological resources observed on the project site, evaluate the project's direct and indirect impacts on these resources, and specify appropriate mitigation measures to reduce any identified impacts to a less-than-significant level.

- *Geology and Soils:* A geotechnical hazards evaluation was completed for the project site by the applicant's consultant, and this report will be peer reviewed by the Town's consulting geotechnical consultant. The evaluation found no significant geologic constraints except for a moderate to high potential for slope instability near the western and northwestern property boundaries as well as the presence of undocumented fill where the earliest development occurred on the site. The EIR will present findings of this evaluation, identify any potential impacts from eventual construction of single-family residences and related infrastructure, and specify mitigation measures to reduce identified impacts to a less-than-significant level.

- *Hydrology and Water Quality*: Project implementation would result in eventual demolition of existing facilities on the site and development of single-family homes and related infrastructure. As a result of this redevelopment, project implementation would reduce impervious surfaces on the project site. A Stormwater Management Plan was prepared for the proposed project by the applicant's consultant, and this Plan will be peer reviewed by the Town's consulting stormwater management engineer. The EIR will address the project's effects on downstream peak flows under the 10- and 100-year storm events, as well as the potential for future development of the site to meet NPDES requirements of the

Bay Area Municipal Regional Permit issued by the San Francisco Bay Regional Water Quality Control Board (including C.3). The EIR will also specify mitigation measures as necessary to ensure compliance with the storm drainage and water quality protection requirements of the Regional Water Quality Control Board and any other responsible agencies.

- *Transportation/Traffic:* A trip generation study was completed by the applicant's traffic consultant, and this study will be peer reviewed by the Town's consulting traffic engineer. The trip generation study indicates that the project would result in a net traffic reduction during the AM and PM peak hours as well as during school-related AM and PM peak periods. Since the proposed 17-lot subdivision would reduce existing peak hour traffic generated by existing facilities on the project site, a detailed traffic impact analysis would not be required. However, the EIR will address other traffic-related CEQA topics such as the project's traffic safety impacts associated with the proposed access road, emergency access, and access to alternative transit, pedestrian, and bicycle facilities.

- *Noise:* An environmental noise assessment was prepared by the applicant's consultant, and this report will be peer reviewed by the Town's environmental consultant. The noise study determined that the noise environment at the project site would be compatible with proposed residential use except on four of the proposed lots, where noise levels could exceed the Town's 55-dBA outdoor noise goal but would be "conditionally acceptable" for residential uses when compared to the Town's Noise and Land Use Compatibility guidelines. The noise assessment identifies noise reduction measures that could be implemented on these four lots to meet the Town's exterior and interior noise goal and limit, thereby reducing potential noise impacts to a less-than-significant level. Eventual demolition of existing structures on the site and construction of 17 single-family homes and related infrastructure would result in short-term noise increases. The EIR will evaluate the potential for short-term, construction-related noise and vibration impacts at adjacent residential receptors and recommend noise-reduction measures as necessary.

- *Air Quality and Greenhouse Gases:* An air quality and greenhouse gas (GHG) emissions assessment was prepared by the applicant's consultant, and this report will be peer reviewed by the Town's environmental consultant. The assessment determined that the project's construction-related and operational criteria pollutant, toxic air contaminant (primarily as diesel particulates), and GHG emissions would be less than significant.

- *Cultural Resources:* A cultural resources study of the project site was completed and no historic or prehistoric archaeological resources were identified on the project site. An historic resources evaluation was also completed to determine the historical significance of the project site and existing facilities on the site. Based on a comparison with CEQA-defined significance criteria for historic resources, the evaluation concluded that the Sisters of the Holy Names of Jesus and Mary project site does not appear to be eligible for the California Register of Historical Resources. Buildings and structures on the site have not been identified as historically significant in any qualifying survey of historic resources. Therefore, proposed demolition of structures would not result in a significant adverse impact as defined by the *CEQA Guidelines*.

- *Hazards and Hazardous Materials:* A Phase I Environmental Site Assessment and Phase II soil sampling were completed for the project site, and these reports will be peer reviewed by the Town's environmental consultant. This report indicates that the site appears to have been historically occupied by orchards, but then was converted to use as a convent (its present use) between 1945 and 1950. The Town's General Plan indicates the project site, like most of the hillside areas in town, is located within a Very High Fire Hazard Area. The EIR will review the project design for consistency with applicable General Plan policies related to fire safety. The EIR will utilize the Phase I and II studies to determine the potential to encounter hazardous materials during and after project

development (including soil sampling to determine the presence of residual pesticides from the former orchard use).

- *Public Services and Utilities:* Police and fire protection services as well as utilities are already provided to the project site and they would continue to be provided to residences that are eventually developed on the site. The EIR will examine impacts on service agencies associated with this change in demand. Utilities currently providing service to the project site include the West Valley Sanitation District (WVSD) for wastewater collection and treatment services and San Jose Water Company for water service. The EIR will assess the project's effects on water and wastewater facilities and identify the need for any required improvements both on- and off-site.

- *Energy Conservation:* In order to assure that energy implications are considered in project decisions, the California Environmental Quality Act requires that EIRs include a discussion of the potential energy impacts of proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful and unnecessary consumption of energy (Public Resources Code section 21100(b)(3)). The EIR will evaluate the proposed project's effects on energy use and conservation based upon the *CEQA Guidelines* Appendix F provisions and the Town's requirements for energy conservation measures as specified by the Town's General Plan and Sustainability Plan.

Environmental Review Process

Following completion of the 30-day Notice of Preparation public review period, the Town of Los Gatos will incorporate relevant information into the Draft EIR, including results of technical studies. The Draft EIR will be circulated for public review and comment for the required 45-day public review period. All individuals and organizations that have requested notification, in writing, will be placed on a Notice of Availability list for the Draft EIR. In addition, the Draft EIR and related materials will be available for review on The Town of Los Gatos' website: http://www.losgatosca.gov, at the Los Gatos Public Library (address above), and at the Town of Los Gatos Community Development Department and Town Clerk Department, located at the 110 E. Main Street, Los Gatos, CA 95030. Following receipt of all written comments on the Draft EIR, the Town of Los Gatos will prepare Responses to Comments as part of the Final EIR, which will be considered and acted upon by the Town of Los Gatos Planning Commission. The Town of Los Gatos will provide notification of future public meetings for this project to individuals that have requested to be included on the project interest list.

Should you have any questions or comments regarding this Notice of Preparation, please contact Suzanne Avila, Senior Planner, Town of Los Gatos, at (408) 354-6875.

Document Details Report
State Clearinghouse Data ıse

SCH# 2013082073
Project Title Sisters of the Holy Names of Jesus and Mary
Lead Agency Los Gatos, City of

Type NOP Notice of Preparation

Description Vesting Tentative Tract map for subdivision of 10.3 acre property into 17 lots. All existing improvements including 85,000 sf of space within one, two and three-story buildings are proposed to be demolished and 17 single-family homes constructed. Property is zoned R-1:20 (Residential Single-Family, 20,000 sf minimum lot size): General Plan land use designation is low density residential.

Lead Agency Contact

Name Suzanne Avila
Agency City of Los Gatos
Phone 408 354 6875 **Fax**
email
Address 110 E. Main Street
City Los Gatos **State** CA **Zip** 95030

Project Location

County Santa Clara
City Los Gatos
Region
Cross Streets North terminus of Prospect Ave (Kimble Ave & Reservoir Rd tie into Prospect frontage)
Lat / Long
Parcel No. 529-44-005
Township **Range** **Section** **Base**

Proximity to:

Highways Hwy 17
Airports
Railways
Waterways Los Gatos Creek
Schools Los Gatos HS
Land Use Sisters of the Holy Names of Jesus and Mary Convent and Conference Facility

Project Issues Aesthetic/Visual; Air Quality; Archaeologic-Historic; Biological Resources; Geologic/Seismic; Noise; Public Services; Toxic/Hazardous; Traffic/Circulation; Water Quality; Other Issues

Reviewing Agencies Resources Agency; Office of Historic Preservation; Department of Parks and Recreation; Resources, Recycling and Recovery; Department of Water Resources; Department of Fish and Wildlife, Region 3; Native American Heritage Commission; State Lands Commission; California Highway Patrol; Department of Housing and Community Development; Caltrans, District 4; Department of Toxic Substances Control; Regional Water Quality Control Board, Region 2

Date Received 08/23/2013 **Start of Review** 08/23/2013 **End of Review** 09/23/2013

Print Form

Appendix C

20130820 73

Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613
For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH #

Project Title: Sisters of the Holy Names of Jesus and Mary

Lead Agency: Town of Los Gatos
Contact Person: Suzanne Avila, Senior Planner
Mailing Address: 110 E Main Street
Phone: 408-354-6875
City: Los Gatos Zip: 95030
County: Santa Clara

Project Location: County: Santa Clara City/Nearest Community: Town of Los Gatos
Cross Streets: North terminus of Prospect Ave (Kimble Ave & Reservoir Rd tie into Prospect frontage) Zip Code: 95030
Longitude/Latitude (degrees, minutes and seconds): ____ ° ____ ′ ____ ″ N / ____ ° ____ ′ ____ ″ W Total Acres: 10.3
Assessor's Parcel No.: 529-44-005 Section: ____ Twp.: ____ Range: ____ Base: ____
Within 2 Miles: State Hwy #: 17 Waterways: Los Gatos Creek
Airports: n/a Railways: n/a Schools: Los Gatos High School

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AUG 23 2013
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Document Type:

CEQA: ☒ NOP ☐ Draft EIR ☐ NEPA: ☐ NOI Other: ☐ Joint Document
☐ Early Cons ☐ Supplement/Subsequent EIR ☐ EA ☐ Final Document
☐ Neg Dec (Prior SCH No.) ____ ☐ Draft EIS ☐ Other: ____
☐ Mit Neg Dec Other: ____ ☐ FONSI

Local Action Type:

☐ General Plan Update ☐ Specific Plan ☐ Rezone ☐ Annexation
☐ General Plan Amendment ☐ Master Plan ☐ Prezone ☐ Redevelopment
☐ General Plan Element ☐ Planned Unit Development ☐ Use Permit ☐ Coastal Permit
☐ Community Plan ☐ Site Plan ☒ Land Division (Subdivision, etc.) ☐ Other: ____

Development Type:

☒ Residential: Units 17 Acres 10.3
☐ Office: Sq.ft. ____ Acres ____ Employees ____ ☐ Transportation: Type ____
☐ Commercial: Sq.ft. ____ Acres ____ Employees ____ ☐ Mining: Mineral ____
☐ Industrial: Sq.ft. ____ Acres ____ Employees ____ ☐ Power: Type ____ MW ____
☐ Educational: ____ ☐ Waste Treatment: Type ____ MGD ____
☐ Recreational: ____ ☐ Hazardous Waste: Type ____
☐ Water Facilities: Type ____ MGD ____ ☐ Other: ____

Project Issues Discussed in Document:

☒ Aesthetic/Visual ☐ Fiscal ☐ Recreation/Parks ☐ Vegetation
☐ Agricultural Land ☐ Flood Plain/Flooding ☐ Schools/Universities ☒ Water Quality
☒ Air Quality ☐ Forest Land/Fire Hazard ☐ Septic Systems ☐ Water Supply/Groundwater
☒ Archeological/Historical ☒ Geologic/Seismic ☐ Sewer Capacity ☐ Wetland/Riparian
☒ Biological Resources ☐ Minerals ☐ Soil Erosion/Compaction/Grading ☐ Growth Inducement
☐ Coastal Zone ☒ Noise ☐ Solid Waste ☐ Land Use
☐ Drainage/Absorption ☐ Population/Housing Balance ☒ Toxic/Hazardous ☐ Cumulative Effects
☐ Economic/Jobs ☒ Public Services/Facilities ☒ Traffic/Circulation ☒ Other: Enrgy Conservation

Present Land Use/Zoning/General Plan Designation:

Sisters of the Holy Names of Jesus and Mary Convent and Conference Facility

Project Description: *(please use a separate page if necessary)*

Vesting Tentative Tract map for subdivision of 10.3 acre property into 17 lots. All existing improvements including 85,000 square feet of space within existing one, two and three-story buildings are proposed to be demolished and 17 single-family homes constructed. Property is zoned R-1:20 (Residential Single-Family, 20,000 square foot minimum lot size). General Plan land use designation is low density residential.

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

NOP Distribution List

County: Santa Clara SCH# 2013082073

Resources Agency

- [x] **Resources Agency**
  Nadell Gayou
- [ ] **Dept. of Boating & Waterways**
  Nicole Wong
- [ ] **California Coastal Commission**
  Elizabeth A. Fuchs
- [ ] **Colorado River Board**
  Gerald R. Zimmerman
- [ ] **Dept. of Conservation**
  Elizabeth Carpenter
- [ ] **California Energy Commission**
  Eric Knight
- [ ] **Cal Fire**
  Dan Foster
- [ ] **Central Valley Flood Protection Board**
  James Herota
- [x] **Office of Historic Preservation**
  Ron Parsons
- [x] **Dept of Parks & Recreation**
  Environmental Stewardship Section
- [x] **California Department of Resources, Recycling & Recovery**
  Sue O'Leary
- [ ] **S.F. Bay Conservation & Dev't. Comm.**
  Steve McAdam
- [x] **Dept. of Water Resources** Resources Agency
  Nadell Gayou

Fish and Game

- [ ] **Dept. of Fish & Wildlife**
  Scott Flint
  Environmental Services Division
- [ ] **Fish & Wildlife Region 1**
  Donald Koch
- [ ] **Fish & Wildlife Region 1E**
  Laurie Harnsberger
- [ ] **Fish & Wildlife Region 2**
  Jeff Drongesen
- [x] **Fish & Wildlife Region 3**
  Charles Armor
- [ ] **Fish & Wildlife Region 4**
  Julie Vance
- [ ] **Fish & Wildlife Region 5**
  Leslie Newton-Reed
  Habitat Conservation Program
- [ ] **Fish & Wildlife Region 6**
  Gabrina Gatchel
  Habitat Conservation Program
- [ ] **Fish & Wildlife Region 6 I/M**
  Brad Henderson
  Inyo/Mono, Habitat Conservation Program
- [ ] **Dept. of Fish & Wildlife M**
  George Isaac
  Marine Region

Other Departments

- [ ] **Food & Agriculture**
  Sandra Schubert
  Dept. of Food and Agriculture
- [ ] **Depart. of General Services**
  Public School Construction
- [ ] **Dept. of General Services**
  Anna Garbeff
  Environmental Services Section
- [ ] **Dept. of Public Health**
  Jeffery Worth
  Dept. of Health/Drinking Water
- [ ] **Delta Stewardship Council**
  Kevan Samsam

Independent Commissions,Boards

- [ ] **Delta Protection Commission**
  Michael Machado
- [ ] **Cal EMA (Emergency Management Agency)**
  Dennis Castrillo
- [x] **Native American Heritage Comm.**
  Debbie Treadway
- [ ] **Public Utilities Commission**
  Leo Wong
- [ ] **Santa Monica Bay Restoration**
  Guangyu Wang
- [x] **State Lands Commission**
  Jennifer Deleong
- [ ] **Tahoe Regional Planning Agency (TRPA)**
  Cherry Jacques

Business, Trans & Housing

- [ ] **Caltrans - Division of Aeronautics**
  Philip Crimmins
- [ ] **Caltrans - Planning**
  Terri Pencovic
- [x] **California Highway Patrol**
  Suzann Ikeuchi
  Office of Special Projects
- [x] **Housing & Community Development**
  CEQA Coordinator
  Housing Policy Division

Dept. of Transportation

- [ ] **Caltrans, District 1**
  Rex Jackman
- [ ] **Caltrans, District 2**
  Marcelino Gonzalez
- [ ] **Caltrans, District 3**
  Gary Arnold
- [x] **Caltrans, District 4**
  Erik Alm
- [ ] **Caltrans, District 5**
  David Murray
- [ ] **Caltrans, District 6**
  Michael Navarro
- [ ] **Caltrans, District 7**
  Dianna Watson
- [ ] **Caltrans, District 8**
  Dan Kopulsky
- [ ] **Caltrans, District 9**
  Gayle Rosander
- [ ] **Caltrans, District 10**
  Tom Dumas
- [ ] **Caltrans, District 11**
  Jacob Armstrong
- [ ] **Caltrans, District 12**
  Marlon Regisford

Cal EPA

Air Resources Board

- [ ] Airport/Energy Projects
  Jim Lerner
- [ ] Transportation Projects
  Douglas Ito
- [ ] Industrial Projects
  Mike Tollstrup
- [ ] **State Water Resources Control Board**
  Regional Programs Unit
  Division of Financial Assistance
- [ ] **State Water Resources Control Board**
  Student Intern, 401 Water Quality Certification Unit
  Division of Water Quality
- [ ] **State Water Resouces Control Board**
  Phil Crader
  Division of Water Rights
- [x] **Dept. of Toxic Substances Control**
  CEQA Tracking Center
- [ ] **Department of Pesticide Regulation**
  CEQA Coordinator

Regional Water Quality Control Board (RWQCB)

- [ ] **RWQCB 1**
  Cathleen Hudson
  North Coast Region (1)
- [x] **RWQCB 2**
  Environmental Document Coordinator
  San Francisco Bay Region (2)
- [ ] **RWQCB 3**
  Central Coast Region (3)
- [ ] **RWQCB 4**
  Teresa Rodgers
  Los Angeles Region (4)
- [ ] **RWQCB 5S**
  Central Valley Region (5)
- [ ] **RWQCB 5F**
  Central Valley Region (5)
  Fresno Branch Office
- [ ] **RWQCB 5R**
  Central Valley Region (5)
  Redding Branch Office
- [ ] **RWQCB 6**
  Lahontan Region (6)
- [ ] **RWQCB 6V**
  Lahontan Region (6)
  Victorville Branch Office
- [ ] **RWQCB 7**
  Colorado River Basin Region (7)
- [ ] **RWQCB 8**
  Santa Ana Region (8)
- [ ] **RWQCB 9**
  San Diego Region (9)

- [ ] **Other** _____
- [ ] _____
  Conservancy

Last Updated 01/08/2013

DEPARTMENT OF TRANSPORTATION
111 GRAND AVENUE
OAKLAND, CA 94612
PHONE (510) 286-6053
FAX (510) 286-5559
TTY 771

Flex your power!
Be energy efficient!

June 18, 2013

SCL017242
SCL/17/PM 7.07

Ms. Suzanne Avila
Community Development Department
Town of Los Gatos
110 E. Main Street
Los Gatos, CA 95030

Dear Ms. Avila:

Sisters of the Holy Names Vesting Tentative Tract Map – NOP

Thank you for including the California Department of Transportation (Caltrans) in the Notice of Preparation review process for the project referenced above. We have reviewed the NOP and have the following comments to offer.

Traffic Impact Study
During construction or starting "opening day," this project may generate traffic at volumes sufficient to impact the operations of nearby State highway facilities, and it may be necessary to prepare a Traffic Impact Study (TIS). If it is found that a TIS is not required, please provide a verifiable explanation for this finding. The following criteria are among those that may be used to determine whether a TIS is warranted:

1. The project will generate over 100 peak hour trips assigned to a State highway facility.

2. The project will generate between 50 and 100 peak hour trips assigned to a State highway facility, and the affected highway facilities are experiencing noticeable delay; approaching unstable traffic flow (level of service (LOS) "C" or "D") conditions.

3. The project will generate between one to 49 peak hour trips assigned to a State highway facility, and the affected highway facilities are experiencing significant delay; unstable or forced traffic flow (LOS "E" or "F") conditions.

We recommend using the Caltrans *Guide for the Preparation of Traffic Impact Studies* for determining which scenarios and methodologies to use in the analysis. It is available at the following website address: <http://dot.ca.gov/hq/tpp/offices/ocp/igr_ceqa_files/tisguide.pdf>.

Vehicle Trip Reduction
Caltrans encourages you to locate any needed housing, jobs and neighborhood services near major mass transit centers, with connecting streets configured to facilitate walking and biking, as a means of promoting mass transit use and reducing regional vehicle miles traveled and traffic impacts on the State highways.

We also encourage you to develop Travel Demand Management (TDM) policies to encourage usage of nearby public transit lines and reduce vehicle trips on the State Highway System. These policies could include lower parking ratios, car-sharing programs, bicycle parking and showers for employees, and providing transit passes to residents and employees, among others.

In addition, secondary impacts on pedestrians and bicyclists resulting from any traffic impact mitigation measures should be analyzed. The analysis should describe any pedestrian and bicycle mitigation measures and safety countermeasures that would in turn be needed as a means of maintaining and improving access to transit facilities and reducing vehicle trips and traffic impacts on State highways.

Encroachment Permit
Please be advised that any work or traffic control that encroaches onto the State ROW requires an encroachment permit that is issued by Caltrans. To apply, a completed encroachment permit application, environmental documentation, and five (5) sets of plans clearly indicating State ROW must be submitted to the address below. David Salladay, District Office Chief, Office of Permits, California Department of Transportation, District 4, P.O. Box 23660, Oakland, CA 94623-0660. Traffic-related mitigation measures should be incorporated into the construction plans prior to the encroachment permit process. See the website linked below for more information: <http://www.dot.ca.gov/hq/traffops/developserv/permits>.

Should you have any questions regarding this letter, please call Jesse Robertson, of my staff at 510-286-5535.

Sincerely,

ERIK ALM, AICP
District Branch Chief
Local Development - Intergovernmental Review

From: Valerie Geier <valerie@geierconsulting.com>
Subject: Fwd: 100 Propsect Ave
Date: July 2, 2013 9:08:34 AM PDT

From: Robertson, Jesse Graham@DOT [mailto:jesse.robertson@dot.ca.gov]

Sent: Tuesday, July 02, 2013 9:06 AM
To: Suzanne Avila
Subject: RE: 100 Propsect Ave

Suzanne,

We had three comments: 1)We do not need to request a traffic impact study because the project will not be generating any trips above the existing level/conditions. 2) Any work within the State right of way would still require an encroachment permit and 3) any opportunity to implement TDM measures are recommended.

Thanks for checking.

Jesse Robertson, Associate Transportation Planner
Local Development/Intergovernmental Review
Office of Transit & Community Planning
Caltrans District 4
111 Grand Ave. (MS-10D)
Oakland, CA 94612-3717
Ph. 510-286-5535

From: Suzanne Avila [mailto:SAvila@LosGatosCA.Gov]

Sent: Tuesday, June 25, 2013 3:40 PM
To: Robertson, Jesse G@DOT
Subject: 100 Propsect Ave

Jesse,

The TJKM peer review of the trip generation study is attached.

Suzanne

From: Johnston, David@Wildlife [mailto:David.Johnston@wildlife.ca.gov]
Sent: Wednesday, September 04, 2013 12:49 PM
To: Suzanne Avila
Subject: RE: NOP for Sisters of the Holy Names of Jesus and Mary

Thanks Suzanne

The bat measures are on the weak side and are all avoidance measures without dealing with the actual impacts if habitat loss. For example, if a maternity colony of almost any bat species is lost, that's almost certain to be a significant impact under CEQA, but the only thing proposed is to avoid the colony and destroy the site when bats aren't present. There is a high fidelity for many maternity roost meaning that the location itself, whether or not bats are present can be significant.

Bats are tough to deal with and I recommend the Town ask for more information on the issue. A good way to do that would be to have a qualified bat biologist examine the buildings to be torn down. That way, the issues (if any) can be dealt with now, rather than when it can potentially hold up the project itself.

Please let me know if you have any questions.

Dave

Dave Johnston
CA Department of Fish and Wildlife
(831) 464-6870

SANTA CLARA
Valley Transportation Authority

June 13, 2013

Town of Los Gatos
Community Development Department
110 E. Main Street
Los Gatos, CA 95030

Attention: Suzanne Avila

Subject: City File No.: M-13-003 / 100 Prospect Avenue

Dear Ms. Avila:

Santa Clara Valley Transportation Authority (VTA) staff have reviewed the NOP for 17 single family homes at 100 Prospect Avenue. We have no comments at this time.

Thank you for the opportunity to review this project. If you have any questions, please call me at (408) 321-5784.

Sincerely,

Roy Molseed
Senior Environmental Planner

APPENDIX B

BAT ROOSTING SURVEY RESULTS, BIOLOGICAL PEER REVIEW AND ARBORIST PEER REVIEW

COAST RIDGE ECOLOGY

BIOLOGICAL SURVEYS • MONITORING • PERMITTING • RESEARCH

October 9, 2013

Vicki Cummings
Sisters of the Holy Names of Jesus and Mary, a California Corporation
PO Box 398
Marylhurst, OR 97036

Subject: *Results of surveys for roosting bats at structures on the Sisters of the Holy Names property located at 100 Prospect Avenue, Los Gatos, California.*

Dear Ms. Cummings:

This letter documents the results of surveys for roosting bats on all structures at the Sisters of the Holy Names property located at 100 Prospects Avenue in Los Gatos, California. The bat surveys were conducted to determine if any bats, including special status species bats such as pallid bat (*Antrozous pallidus*) and Townsend's big-eared bat (*Corynorhinus townsendii*), as well as any non-special status bat species were roosting on or within any of the structures on the property.

The site has several structures on site, including two main buildings (85,000 sq. ft. total) which consist of a care center and dormitory, and several smaller ancillary outbuildings. The site is located in the foothills of Los Gatos, and the surrounding area consists of low density residential development, paved roads, paved parking lots, landscaped grounds and mature oak woodland.

Methods

The structures on site were surveyed for bats by Coast Ridge Ecology biologists on October 2 and October 8, 2013. The surveys were focused on detecting roosting bats, including any signs of maternity (breeding) colonies of bats. A daytime search for any sign of bats was conducted on October 2. All of the buildings and structures on site were inspected for bat sign (e.g. accumulations of guano, urine staining, exit/entrance stains). The interior and exterior of the buildings including the roofs, crawl spaces and all potential access areas for bats were inspected using flashlights.

Two nights of emergence surveys were conducted during favorable weather conditions for bats (no rain, temperatures in the 60's, clear and calm winds, and low light (non-full moon moon phase). Surveys were timed to occur after the breeding season and prior to hibernation. Emergence surveys consisted of stationing three biologists in different locations on the property

to view and/or record any bats exiting the structures before and after dusk. Emergence surveys were conducted from approximately 6:30PM to 8:00PM on each night (sunset at 6:40PM). Handheld acoustic recorders (Wildlife Acoustics Echometer 3 units) were used to record bats at each station. All acoustic data recorded was analyzed using Sonobat 3.1.

Results

No bats or signs of bats were observed within or on any of the structures. Each structure was thoroughly inspected and no bat guano or urine staining was observed on the exterior or within any of the structures. The larger care center and dormitory on site are currently occupied by people and are well maintained by maintenance staff. There is very little potential access points for bats because vents and other access points are screened. A few of the smaller buildings on site (outbuildings/ tool sheds, etc.) had some potential for bat access, however no signs of bats were detected. Rat (possibly San Francisco dusky-footed woodrat) scat was detected within a few of these structures on the north side of the property. The scat was isolated to only a few locations. I recommend that a qualified biologist perform a pre-demolition survey for the presence of woodrat nests (i.e. middens).

No bats were observed to have exited the structures during the emergence surveys. The emergence surveys detected some bats (possibly foraging or traveling through the site), however no bats were observed to have exited from any of the structures. Species detected acoustically included: hoary bat (*Lasiurus cinereus*), Brazilian free-tailed bat (*Tadarida brasiliensis*), big brown bat (*Eptesicus fuscus*), and one 50 kHz bat, possibly California myotis (*Myotis californica*). All of the bats detected may potentially roost in trees on site or within structures and/or trees on adjacent properties. The oak woodland habitat on site provides excellent foraging habitat for several bat species.

Avoidance and Mitigation Measures

The following mitigation measures proposed by WRA Environmental Consultants on September 16, 2013 are appropriate protective measures for roosting bats.

a. Impacts to suitable roost sites shall be avoided or minimized to the greatest extent feasible.

b. If feasible, tree removal, pruning, grubbing and demolition of structures shall be conducted during the non-roosting season from September 1 to October 31. Preconstruction surveys consisting of visual inspections of trees and the exterior and interior of structures by a qualified bat biologist shall be conducted no more than 30 days prior to the start of work. The biologist will survey for evidence of previous roosting or occupation of bats within suitable habitat. Suitable bat roosting habitat includes man-made structures, snags, rotten stumps, mature trees with broken limbs, trees with exfoliating bark, bole cavities or hollows, and dense foliage. If evidence of bat roosting is not detected, work may proceed without restriction if within 30 days of the survey; if work is delayed beyond 30 days, the survey shall be repeated. However, if evidence of roosting is observed

during preconstruction surveys, the bat biologist shall, if necessary, specify protective measures as discussed below. Potential consultation with CDFW may be required to determine appropriate protective measures;

c. If tree removal, pruning, grubbing and demolition of structures is scheduled to occur during the hibernation season (i.e., November 1 through March 31), a preconstruction survey shall be performed by a qualified bat biologist. Emergence surveys are not effective at determining bat presence (due to suppressed flight and forage activities) during this period, therefore preconstruction surveys consisting of visual inspections of trees and the exterior and interior of structures shall be conducted no more than 30 days prior to the start of work. Suitable bat roosting habitat includes man-made structures, snags, rotten stumps, mature trees with broken limbs, trees with exfoliating bark, bole cavities or hollows, and dense foliage. If evidence of bat hibernation is not detected, work may proceed without restriction if within 30 days of the survey; if work is delayed beyond 30 days, the survey shall be repeated.

d. If evidence of bat hibernation or roosting is detected, the bat biologist shall specify protective measures. Potential protective measures that may be recommended by a qualified bat biologist include, but are not limited to establishing disturbance buffers around roosts and passive exclusion measures. The passive exclusion measures or buffer shall be determined by the type of bat observed, sensitivity of roost, type of potential disturbance, etc. Each buffer zone shall remain in place until the end of the hibernation season or until the bats leave on their own accord. The bat biologist shall confirm that bats have been excluded from the tree or building before work may commence.

e. If tree removal, pruning, grubbing and demolition of structures will occur during the maternity roosting season (April 1 to August 31), pre-construction emergence surveys should be performed during this period. Suitable bat roost sites (e.g., large tree cavities, outbuilding perches) should be surveyed by way of evening emergence surveys and/or visual, internal and external inspections to determine presence/absence of bat maternity roosts. If no roost sites are detected, work may proceed without restriction if within 30 days of the survey; if work is delayed beyond 30 days, the survey shall be repeated.

f. If a maternity roost is determined to be present, evidenced by presence of roosting bats or significant guano accumulations detected during the roost assessment or during pre-construction surveys, demolition activities will be halted and a qualified bat biologist shall specify protective measures (as discussed above) in conjunction with CDFW.

g. A qualified bat biologist, in conjunction with CDFW shall design and construct a species-specific replacement roost. Baseline data will be measured at the existing maternity roost. Baseline data that may be measured includes, but is not limited to; size and configuration of roost, temperature, humidity, and solar exposure. The baseline data will be used to inform the design of a species-specific replacement roost. The replacement roost would ideally be constructed on-site. If on-site construction is not feasible the roost should be constructed on near-by open space within suitable habitat. Demolition of the maternity roost will not resume until the replacement roost is constructed and sited.

h. Long-term monitoring requirements of a replacement roost would be coordinated with CDFW. A successful replacement roost will provide a similar range of abiotic conditions as the replaced roost. Baseline data collected from the roost to be replaced will provide the range of abiotic conditions for long-term monitoring and criteria for success. If success criteria are not being met, reporting to the CDFW will recommend corrective actions. CDFW-approved corrective actions will be implemented.

i. If an active roost is present, but determined not to be a maternity roost, the qualified bat biologist shall specify protective measures (as discussed above) in conjunction with CDFW.

Conclusions

No bats or evidence of bats were observed on or within any of the structures on the property. Each building was thoroughly inspected, and accessibility to roof areas and crawl spaces was very good. Based on these negative results, it is unlikely that bats currently utilize these structures for roosting.

If you have any questions or require any further assistance on this project, please contact me.

Sincerely,

Patrick Kobernus
Biologist/Owner

WOOD BIOLOGICAL CONSULTING, INC.
65 Alta Hill Way
Walnut Creek, CA 94595
Tel: (925) 899-1282
Fax: (925) 939-4026
e-mail: mike@wood-biological.com
www.wood-biological.com

July 15, 2013

Valerie Geier
Geier & Geier Consulting
P.O. Box 5054
Berkeley, CA 94705-5054

RE: Biological Peer Review, Sisters of the Holy Names of Jesus and Mary Convent, Los Gatos

Dear Valerie:

The Sisters of the Holy Names of Jesus and Mary Convent is proposing to develop a portion of its property into 17 single-family residences. In anticipation of the preparation of an Environmental Impact Report (EIR), the Town of Los Gatos has requested a peer-review of the technical studies prepared on behalf of the applicants.

At your request, I have reviewed the Biological Resource Assessment Report (WRA 2013) report for the above-referenced project. I reviewed project information including arborist reports prepared by Mr. John Leone (2013), Barrie D. Coate and Associates (2013) and Arbor Resources (2013), as well as the Tentative Map for the proposed development (RBF Consulting, dated March 19, 2013). I also performed a separate review of available databases (CNDDB 2013, CNPS 2013, USFWS 2011). In support of this review, I also performed a cursory site reconnaissance visit. As you are aware, I have conducted numerous similar biological assessments in and around Los Gatos.

This memorandum presents my findings.

OVERVIEW

The Sisters of the Holy Names of Jesus and Mary Convent is situated on a 10.3-acre project is located at 100 Prospect Avenue (APN 529-44-005). In their report, WRA characterized the property as primarily developed and landscaped, supporting structures, roads, paved parking lots, ornamental landscaping and reflecting ponds. Native trees are incorporated into landscaped areas. The western portion of the subject property support a densely

vegetated hillside comprised of both native and non-native trees, shrubs, vines and herbs. Much of this area has been disturbed from the construction of structures, retaining walls, paved and unpaved pathways and roads, and by routine maintenance activities. Native oaks include coast live oak (*Quercus agrifolia*), black oak (*Q. kelloggii*), and blue oak (*Q. douglasii*).

Based on their review of available databases, WRA identified 55 special-status plant species that have been documented as occurring in the vicinity of the subject property. WRA concluded that there is no potential for occurrence of any of the 55 target species they identified.

WRA also identified a total of 69 special-status wildlife species have been recorded in the project vicinity. WRA concluded that there is a potential for four special-status bat species and four special-status bird species.

Based on their analysis, WRA identified the following potentially significant adverse impacts on biological resources that could result from project implementation;

- Direct or indirect impacts on oak woodland through habitat loss, habitat fragmentation, or reduced habitat suitability for wildlife.
- Direct impacts on roosting bats.
- Direct and indirect impacts on special-status and other migratory birds.
- Impacts on oak woodland and trees regulated under the local General Plan and ordinances.

Avoidance and impact minimization measures are proposed to reduce potential impact to a less-than-significant level.

DISCUSSION

The WRA report presents an accurate characterization of the project site in terms of the potential for occurrence of special-status biological resources, including oak woodland and special-status wildlife species.

There are a couple of minor discrepancies in the summary of special-status plant species covered in the WRA report. Seven taxa listed are not known from the project vicinity and do not appear in a nine-quad query of the California Natural Diversity Database, while five species that have been recorded from the nine quadrangles are not addressed (CNDDB 2013; see Attachment A).

Similarly, there are some discrepancies in the summary of special-status animal species covered in the WRA report. Forty of the 69 taxa listed do not appear on the CNDDB printout (22 of these are birds that are known to occur in Santa Clara County). However, there are six

special-status animal species appearing on the nine-quad printout that are not addressed in the WRA report (CNDDB 2013; see Attachment A).

CONCLUSIONS

Despite the minor discrepancies discussed above, the analysis of impacts resulting from the proposed development contained in the WRA report contains no serious short-comings. The five special-status plant species not addressed in their report include one vascular plant (*Clarkia concinna ssp. automixa*) and four moss species (*Anomobryum julaceum, Dacryophyllum falcifolium, Didymodon norrisii* and *Fissidens pauperculus*) are unlikely to occur on site.

Of the six special-status animal species not addressed, only Cooper's hawk and long-eared myotis have the potential to occur on site; the remaining four species (osprey, western pearlshell, Antioch specid wasp, and the isopod *Calasellus californicus*) have no potential to occur on-site. If found to be present, the impact avoidance and minimization measures identified in the WRA report would apply to Cooper's hawk and long-legged myotis, reducing potential impacts to a less-than significant level.

Given the current climate regarding the review of environmental impacts in Los Gatos and regionally, there is one additional potentially significant adverse environmental impact not addressed in the WRA report pertaining to biological resources. As discussed in their report, WRA identifies two waters of the U.S./waters of the State proximal to the project site. Implementation of the proposed project could result in indirect impacts on these water courses both during and post-construction, the result of sedimentation/erosion as well as acute and chronic releases of contaminants. Avoidance/minimization measures are not identified and should be incorporated in the Town's environmental review.

Sincerely,

Michael Wood

Attachments

Literature Cited

CNDDB printout with unaddressed species highlighted

LITERATURE CITED

Arbor Resources. 2013. *An Arborist Review of the Proposed Development at 100 Prospect Avenue, Los Gatos, California.* Unpublished technical report prepared for the Town of Los Gatos. July 11.

Barrie D. Coate and Associates. 2013. *Recommendations for Dispensation of Trees at the Sisters of Holy Names, Los Gatos.* Unpublished technical report prepared for the Holy Names of Jesus and Mary, a California Corporation. January 31.

California Native Plant Society (CNPS). 2013. *Inventory of Rare and Endangered Plants* (online edition, v8-01a). Online search for the Los Gatos, San Jose West, San Jose East, Santa Teresa Hills, Loma Prieta, Laurel, Felton, Castle Rock Ridge, and Cupertino 7.5-minute USGS quadrangles. California Native Plant Society. Sacramento, CA. Accessed July 9 at www.rareplants.cnps.org/.

California Natural Diversity Data Base (CNDDB). 2013. *Data Base Print-out for the Los Gatos, San Jose West, San Jose East, Santa Teresa Hills, Loma Prieta, Laurel, Felton, Castle Rock Ridge, and Cupertino USGS 7.5*-minute *Quadrangles*. RareFind 3.1.0. California Department of Fish and Wildlife, Habitat Conservation Division. Sacramento, California. Information dated July 9.

Leone, John J. 2013. *Arborist Tree Inventory for Sisters of the Holy Names of Jesus and Mary, 100 Prospect Avenue, Los Gatos, CA.* Unpublished technical report prepared for the Holy Names of Jesus and Mary. March.

United States Fish and Wildlife Service (USFWS). 2011. *Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Los Gatos, San Jose West, San Jose East, Santa Teresa Hills, Loma Prieta, Laurel, Felton, Castle Rock Ridge, and Cupertino USGS 7.5' Quadrangles.* Threatened and Endangered Species System (TESS) printout. Database updated September 18, 2011, accessed June 9, at http://www.fws.gov/sacramento/ES_Species/Lists/es_species_lists-overview.htm.

WRA Environmental Consultants. 2013. *Final Biological Resources Assessment Report, Sisters of the Holy Names of Jesus and Mary Convent, Los Gatos, California.* Unpublished technical report prepared for the Holy Names of Jesus and Mary, a California Corporation. July 12.

California Department of Fish and Game
Natural Diversity Database
100 Prospect Avenue, Los Gatos
Los Gatos, San Jose West, San Jose East, Santa Teresa Hills, Loma Prieta, Laurel, Felton, Castle Rock Ridge and Cupertino 7.5 minute USGS quadrangles

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1	***Accipiter cooperii*** Cooper's hawk	ABNKC12040			G5	S3	
2	***Adela oplerella*** Opler's longhorn moth	IILEE0G040			G2G3	S2S3	
3	***Agelaius tricolor*** tricolored blackbird	ABPBXB0020			G2G3	S2	SC
4	***Ambystoma californiense*** California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	SC
5	***Amsinckia lunaris*** bent-flowered fiddleneck	PDBOR01070			G2?	S2?	1B.2
6	***Anomobryum julaceum*** slender silver moss	NBMUS80010			G4G5	S2	2.2
7	***Antrozous pallidus*** pallid bat	AMACC10010			G5	S3	SC
8	***Aquila chrysaetos*** golden eagle	ABNKC22010			G5	S3	
9	***Arctostaphylos andersonii*** Anderson's manzanita	PDERI04030			G2	S2?	1B.2
10	***Arctostaphylos silvicola*** Bonny Doon manzanita	PDERI041F0			G2	S2.1	1B.2
11	***Arenaria paludicola*** marsh sandwort	PDCAR040L0	Endangered	Endangered	G1	S1	1B.1
12	***Athene cunicularia*** burrowing owl	ABNSB10010			G4	S2	SC
13	***Balsamorhiza macrolepis*** big-scale balsamroot	PDAST11061			G2	S2	1B.2
14	***Calasellus californicus*** An isopod	ICMAL34010			G2	S2	
15	***California macrophylla*** round-leaved filaree	PDGER01070			G2	S2	1B.1
16	***Calyptridium parryi var. hesseae*** Santa Cruz Mountains pussypaws	PDPOR09052			G3G4T2	S2	1B.1
17	***Campanula californica*** swamp harebell	PDCAM02060			G3	S3	1B.2
18	***Carex comosa*** bristly sedge	PMCYP032Y0			G5	S2	2.1
19	***Carex saliniformis*** deceiving sedge	PMCYP03BY0			G2	S2.2	1B.2
20	***Ceanothus ferrisiae*** Coyote ceanothus	PDRHA041N0	Endangered		G2	S2	1B.1
21	***Centromadia parryi ssp. congdonii*** Congdon's tarplant	PDAST4R0P1			G4T2	S2	1B.1
22	***Chorizanthe pungens var. hartwegiana*** Ben Lomond spineflower	PDPGN040M1	Endangered		G2T1	S1	1B.1
23	***Chorizanthe pungens var. pungens*** Monterey spineflower	PDPGN040M2	Threatened		G2T2	S2	1B.2

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24	***Chorizanthe robusta var. hartwegii*** Scotts Valley spineflower	PDPGN040Q1	Endangered		G2T1	S1	1B.1
25	***Chorizanthe robusta var. robusta*** robust spineflower	PDPGN040Q2	Endangered		G2T1	S1	1B.1
26	***Cicindela ohlone*** Ohlone tiger beetle	IICOL026L0	Endangered		G1	S1	
27	***Cirsium fontinale var. campylon*** Mt. Hamilton fountain thistle	PDAST2E163			G2T2	S2	1B.2
28	***Clarkia concinna ssp. automixa*** Santa Clara red ribbons	PDONA050A1			G5?T3	S3.3	4.3
29	***Collinsia multicolor*** San Francisco collinsia	PDSCR0H0B0			G2	S2.2	1B.2
30	***Cypseloides niger*** black swift	ABNUA01010			G4	S2	SC
31	***Dacryophyllum falcifolium*** tear drop moss	NBMUS8Z010			G1	S1	1B.3
32	***Didymodon norrisii*** Norris' beard moss	NBMUS2C0H0			G3G4	S3S4	2.2
33	***Dipodomys venustus venustus*** Santa Cruz kangaroo rat	AMAFD03042			G4T1	S1	
34	***Dirca occidentalis*** western leatherwood	PDTHY03010			G2G3	S2S3	1B.2
35	***Dudleya abramsii ssp. setchellii*** Santa Clara Valley dudleya	PDCRA040Z0	Endangered		G3T2	S2	1B.1
36	***Elanus leucurus*** white-tailed kite	ABNKC06010			G5	S3	
37	***Emys marmorata*** western pond turtle	ARAAD02030			G3G4	S3	SC
38	***Eriogonum nudum var. decurrens*** Ben Lomond buckwheat	PDPGN08492			G5T2	S2.1	1B.1
39	***Erysimum teretifolium*** Santa Cruz wallflower	PDBRA160N0	Endangered	Endangered	G2	S2	1B.1
40	***Euphilotes enoptes smithi*** Smith's blue butterfly	IILEPG2026	Endangered		G5T1T2	S1S2	
41	***Euphydryas editha bayensis*** Bay checkerspot butterfly	IILEPK4055	Threatened		G5T1	S1	
42	***Falco peregrinus anatum*** American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T3	S2	
43	***Fissidens pauperculus*** minute pocket moss	NBMUS2W0U0			G3?	S1	1B.2
44	***Fritillaria liliacea*** fragrant fritillary	PMLIL0V0C0			G2	S2	1B.2
45	***Hesperocyparis abramsiana var. abramsiana*** Santa Cruz cypress	PGCUP04081	Endangered	Endangered	G1T1	S1	1B.2
46	***Hoita strobilina*** Loma Prieta hoita	PDFAB5Z030			G2	S2	1B.1

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
47	***Holocarpha macradenia*** Santa Cruz tarplant	PDAST4X020	Threatened	Endangered	G1	S1	1B.1
48	***Horkelia cuneata var. sericea*** Kellogg's horkelia	PDROS0W043			G4T2	S2?	1B.1
49	***Horkelia marinensis*** Point Reyes horkelia	PDROS0W0B0			G2	S2.2	1B.2
50	***Lasiurus cinereus*** hoary bat	AMACC05030			G5	S4?	
51	***Lasthenia conjugens*** Contra Costa goldfields	PDAST5L040	Endangered		G1	S1	1B.1
52	***Lessingia micradenia var. glabrata*** smooth lessingia	PDAST5S062			G2T2	S2	1B.2
53	***Malacothamnus aboriginum*** Indian Valley bush-mallow	PDMAL0Q020			G2	S2	1B.2
54	***Malacothamnus arcuatus*** arcuate bush-mallow	PDMAL0Q0E0			G2Q	S2.2	1B.2
55	***Malacothamnus hallii*** Hall's bush-mallow	PDMAL0Q0F0			G2Q	S2	1B.2
56	***Margaritifera falcata*** western pearlshell	IMBIV27020			G4G5	S2S3	
57	***Maritime Coast Range Ponderosa Pine Forest***	CTT84132CA			G1	S1.1	
58	***Microcina homi*** Hom's micro-blind harvestman	ILARA47020			G1	S1	
59	***Microseris paludosa*** marsh microseris	PDAST6E0D0			G2	S2.2	1B.2
60	***Monolopia gracilens*** woodland woollythreads	PDAST6G010			G2G3	S2S3	1B.2
61	***Myotis evotis*** long-eared myotis	AMACC01070			G5	S4?	
62	***Myotis yumanensis*** Yuma myotis	AMACC01020			G5	S4?	
63	***North Central Coast Drainage Sacramento Sucker/Roach River***	CARA2623CA			GNR	SNR	
64	***Northern Maritime Chaparral***	CTT37C10CA			G1	S1.2	
65	***Oncorhynchus kisutch*** coho salmon - central California coast ESU	AFCHA02034	Endangered	Endangered	G4	S2?	
66	***Oncorhynchus mykiss irideus*** steelhead - central California coast DPS	AFCHA0209G	Threatened		G5T2Q	S2	
67	***Oncorhynchus mykiss irideus*** steelhead - south/central California coast DPS	AFCHA0209H	Threatened		G5T2Q	S2	SC
68	***Pandion haliaetus*** osprey	ABNKC01010			G5	S3	
69	***Penstemon rattanii var. kleei*** Santa Cruz Mountains beardtongue	PDSCR1L5B1			G4T2	S2.2	1B.2
70	***Pentachaeta bellidiflora*** white-rayed pentachaeta	PDAST6X030	Endangered	Endangered	G1	S1	1B.1

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
71	***Philanthus nasalis*** Antioch specid wasp	IIHYM20010			G1	S1	
72	***Phrynosoma blainvillii*** coast horned lizard	ARACF12100			G4G5	S3S4	SC
73	***Piperia candida*** white-flowered rein orchid	PMORC1X050			G3?	S2	1B.2
74	***Plagiobothrys chorisianus var. chorisianus*** Choris' popcornflower	PDBOR0V061			G3T2Q	S2.2	1B.2
75	***Plagiobothrys diffusus*** San Francisco popcornflower	PDBOR0V080		Endangered	G1Q	S1	1B.1
76	***Plagiobothrys glaber*** hairless popcornflower	PDBOR0V0B0			GH	SH	1A
77	***Polygonum hickmanii*** Scotts Valley polygonum	PDPGN0L310	Endangered	Endangered	G1	S1	1B.1
78	***Polyphylla barbata*** Mount Hermon (=barbate) June beetle	IICOL68030	Endangered		G1	S1	
79	***Rana boylii*** foothill yellow-legged frog	AAABH01050			G3	S2S3	SC
80	***Rana draytonii*** California red-legged frog	AAABH01022	Threatened		G4T2T3	S2S3	SC
81	***Rosa pinetorum*** pine rose	PDROS1J0W0			G2Q	S2.2	1B.2
82	***Senecio aphanactis*** chaparral ragwort	PDAST8H060			G3?	S2	2.2
83	***Serpentine Bunchgrass***	CTT42130CA			G2	S2.2	
84	***Streptanthus albidus ssp. albidus*** Metcalf Canyon jewel-flower	PDBRA2G011	Endangered		G2T1	S1	1B.1
85	***Streptanthus albidus ssp. peramoenus*** most beautiful jewel-flower	PDBRA2G012			G2T2	S2.2	1B.2
86	***Taxidea taxus*** American badger	AMAJF04010			G5	S4	SC
87	***Trifolium buckwestiorum*** Santa Cruz clover	PDFAB402W0			G2	S2	1B.1
88	***Trifolium hydrophilum*** saline clover	PDFAB400R5			G2	S2	1B.2
89	***Trimerotropis infantilis*** Zayante band-winged grasshopper	IIORT36030	Endangered		G1	S1	

ARBOR RESOURCES
professional consulting arborists and tree care

AN ARBORIST REVIEW OF THE PROPOSED DEVELOPMENT AT 100 PROSPECT AVENUE LOS GATOS, CALIFORNIA

PROPERTY OWNER/APPLICANT:
Sisters of the Holy Names of Jesus and Mary

SUBDIVISION APPLICATION M-13-003
APN 529-44-005

Submitted to:

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Community Development Department
Town of Los Gatos
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July 11, 2013

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EXHIBITS

1.0 INTRODUCTION

I have been retained by the Town of Los Gatos Community Development Department to prepare this report in connection with an application for 10.3-acre parcel to be subdivided into 17 lots at **100 Prospect Avenue**, Los Gatos. Tasks assigned to perform are as follows:

- Review the report by John J. Leone, dated March 2013, and another report by Barrie D. Coate, dated January 31, 2013.
- Visit the site on various days during the months of April thru early July 2013 to identify and evaluate existing "protected trees"[1] that are within the limits of work shown on the map presented in Exhibit B.
- Utilize established tree numbers that are presented on project maps and provided on tags affixed to trunks or limbs (numbers were assigned and trees tagged by others).
- Confirm and revise, when needed, the species and condition of inventoried trees.
- Clarify and update the trunk diameters of trees with multiple stems, and in some instances, for single-trunk trees. For most all trees with single trunks, I utilized the sizes identified in the applicant's arborist report. Diameters considered by me are obtained at 54 inches above grade or where appropriate to best represent trunk size; diameters are rounded to the nearest inch, and trees listed with more than one diameter have multiple trunks.
- Utilize canopy spreads presented in the applicant's report (rounded up to the nearest fifth).
- Show the approximate trunk locations of "protected trees" that are within the limit of my work area but were not yet inventoried. For these trees, I assigned a number and obtained the trunk diameter and canopy size.
- Evaluate each tree's health and structural condition, and assign an overall condition rating (e.g. good, fair, poor or dead).
- Assign suitability for preservation ratings (e.g. high, moderate or low).
- Note and comment on pertinent tree-related conditions.
- Review the conceptual set of plans, stamp dated 3/27/13, by the Town, and a

[1] Pursuant to Section 29.10.0960 of the Town's Municipal Code, a "protected tree" has a trunk with a diameter ≥4" at three feet above grade. Fruit- or nut-bearing trees with trunks less than 18" in diameter are exempt (Section 29.10.0970).

subsequent set, dated 6/6/13. Ascertain and comment on potential impacts.

- Prepare measures to help avoid or mitigate impacts to trees that will be retained or removed.
- Prepare a written report containing the above information, and submit via email as a PDF document.

2.0 TREE COUNT AND COMPOSITION

Three-hundred two (302) trees of 46 various types were inventoried for this report and are sequentially numbered as follows: **#1-13, 15-31, 31a, 32-39, 41-45, 45a, 46-66, 66a, 67-104, 118-120, 121a, 122, 123, 138-144, 157a, 158-160, 160a, 167, 173, 173a-c, 174, 176-181, 186-212, 212a-c, 213-229, 234-238, 240-243, 245-249, 259-280, 282-291, 293-295, 297-302, 304, 306-307, 308a-g, 334a, 334b, 341, 343-345, 351, 352, 400-402 and 525-528**. Their names, assigned numbers, counts and percentages are presented in the table below (and continued on the following three pages). Based on Mr. Leone's report, there are an additional 200 plus trees throughout the site (and beyond my scope area).

NAME	TREE NUMBER(S)	COUNT	% OF TOTAL
Aleppo pine	5, 92, 334a, 339, 525	5	2%
American arborvitae	85, 120, 213, 528	4	1%
American sweetgum	39, 41, 51, 52, 71, 284, 343	7	2%
black locust	277, 278	2	1%
blackwood acacia	8, 11, 62, 73, 88, 189, 198, 227	8	3%
blue elderberry	173c	1	0%
blue oak	25, 78, 82, 121a, 139-141, 158, 159, 164, 174, 190, 192, 202, 210, 211, 223, 224, 240, 241, 245, 246, 261, 263, 268, 271, 272, 294, 295	29	10%

Table continued:

NAME	TREE NUMBER(S)	COUNT	% OF TOTAL
California bay	101, 104, 122, 144, 173b, 176, 187, 201, 219, 225, 280	11	4%
California black oak	27, 74, 76, 102, 206, 207, 229, 237, 248, 259, 260, 270, 273-275, 289, 291, 298	18	6%
California buckeye	249, 299	2	1%
Canary Island date palm	283	1	0%
Chinese elm	290	1	0%
coast live oak	1, 7, 9, 10, 12, 13, 15, 16, 21, 23, 26, 31, 32, 50, 56-61, 72, 75, 77, 79, 81, 87, 157a, 212a, 165-167, 186, 208, 209, 212, 234, 235, 238, 242, 247, 262, 265, 266, 276, 282, 301, 302, 306, 344	49	16%
coast redwood	34, 83, 86, 173, 177, 188, 196, 212b, 226, 264, 285, 286, 307, 341	14	5%
Colorado blue spruce	94	1	0%
crabapple	195, 221	2	1%
crape myrtle	345	1	0%
cypress	24, 66, 99, 100, 103, 121, 142, 143, 200, 216, 218, 222, 233	13	4%
Deodar cedar	3, 4, 18, 33, 36, 45, 49, 191, 228, 334-337, 400-402	16	5%
Douglas-fir	6, 54, 55, 161, 236, 310-333	29	10%
Eastern redbud	334b	1	0%
English holly	203	1	0%
English yew	42, 98	2	1%
evergreen pear	269	1	0%

Table continued:

NAME	TREE NUMBER(S)	COUNT	% OF TOTAL
fern pine	69	1	0%
glossy privet	22, 28, 31a, 80, 279	5	2%
hawthorn	43, 204, 205, 217, 288, 293, 351, 352	9	3%
Hollywood juniper	44	1	0%
incense cedar	90, 91, 119, 178-181, 287, 300, 304, 340	11	4%
Italian stone pine	2, 338	2	1%
Jacaranda	66a	1	0%
juniper	93, 95-97, 118, 123, 197, 214, 215, 220	10	3%
maple	35, 37, 45a, 47, 48, 70, 163, 212c	8	3%
Pittosporum	53, 63, 160, 160a, 193	5	2%
Monterey cypress	64	1	0%
Myoporum	526, 527	2	1%
Peruvian pepper	30, 89	2	1%
Ponderosa pine	162	1	0%
red-flowering gum	199	1	0%
shamel ash	67, 68	2	1%
Siberian elm	297	1	0%
silk oak	194	1	0%
silver-dollar gum	17, 19, 20, 29	4	1%
Southern magnolia	38, 46	2	1%

Table continued:

NAME	TREE NUMBER(S)	COUNT	% OF TOTAL
strawberry tree	84, 267, 308, 308a-g, 309	11	4%
toyon	65, 138	2	1%
	Total	**302**	**100%**

As shown in the table, the tree landscape consists predominantly of oaks, all of which are native to the area (coast live, blue and black).

Specific information regarding each tree is presented within the table in **Exhibit A**. The trees' approximate locations and corresponding numbers can be viewed on the site map in **Exhibit B**, and photographs are presented in **Exhibit C**.

The following **28 trees** are shown to have trunks situated within the public right-of-way, and can be regarded as **street trees**: **#1, 8, 9, 11, 14-16, 72-76, 312-323, 353 and 525-527**.

The following **eight trees** have been **added** to the inventory, and their locations, as presented on the map in Exhibit B, are roughly approximate and should not be construed as being surveyed: **#31a, 173b, 173c, 212a-c, 334a and 334b**.

Tree #121 is **duplicated** on the map, one of which is intended to be #121a; see Exhibit B.

Tree #528 is located further east than what the survey shows, and **#212**'s and **#249**'s location also varies from the survey; see Exhibit B. Although just outside my scope of work area, #250's location varies, and can also be seen in Exhibit B.

The following **21 trees** are shown on the initial tree inventory but are **exempt** from regulation per Town Code (due to their trunk size): #40, 230-233, 239, 281, 292, 303, 305, 308h-j, 342, 346-350, 353 and 524. Also, **tree #14**, documented as a 9" dead black acacia in the initial inventory, has already been removed and is not included in this report.

3.0 SUITABILITY FOR TREE PRESERVATION

Each tree has been assigned a "high," "moderate" or "low" suitability for preservation rating as a method to cumulatively measure their health, structural integrity, anticipated life span, location, size and specie type. A description of these ratings are presented below; note that the "high" category comprises **43 trees** (or 14%), the "moderate" category **185 trees** (or 61%), and the "low" category **74 trees** (or 25%).

High: These trees exhibit good health, have seemingly stable structures, and appear to have the highest potential of contributing long-term to the site.

- Applies to **trees #12, 25, 34, 45, 61, 77, 82, 83, 86, 87, 139, 157a, 161, 162, 165, 167, 174, 202, 206, 209, 211, 223, 229, 234, 240-242, 245, 246, 259, 261, 262, 264, 270-277, 274, 286, 294, 306, 241, 244 and 400**.

Moderate: These trees contribute to the site but seemingly at insignificant levels. Their longevity and contribution is less than those of high suitability, and more frequent care is needed during their remaining life span.

- Applies to **trees #1-7, 10, 15, 17-24, 26, 27, 29, 31-33, 36, 39, 41-44, 46, 48-52, 55-58, 60, 64, 65, 68, 70, 72, 74, 76, 78-81, 84, 91-98, 100-102, 118, 119, 121, 121a, 122, 138, 140-144, 158, 159, 160a, 173a, 163, 164, 166, 173, 173a, 176-181, 186-188, 190-193, 195-197, 199-201, 203-205, 208, 210, 212, 212a-c, 214, 215, 220, 221, 222, 224-227, 235-237, 243, 247-249, 260, 263, 265-267, 273, 275, 276, 279, 282-285, 287-291, 293, 295, 298-300, 302, 304, 307, 308, 308a-g, 309-313, 317-319, 328-330, 332-334, 334a, 335-340, 343, 345, 352 and 528**.

Low: These trees are the least suitable for retention due to being dead, dying and/or predisposed to decline and/or structural defects that are expected to worsen (i.e. beyond repair) regardless of tree care measures employed.

- Applies to **trees #8, 9, 11, 13, 16, 28, 30, 31a, 35, 37, 38, 45a, 47, 53, 54, 59, 62, 63, 66, 66a, 67, 69, 71, 73, 75, 85, 88-90, 99, 103, 104, 120, 123, 160, 173b, 173c, 189, 194, 198, 207, 213, 216-219, 228, 239, 268, 269, 277, 278, 280, 297, 301, 314-316, 320-327, 331, 334b, 351, 401, 402 and 525-527**.

Of those assigned a low suitability, I recommend the following **12 trees** are **immediately removed** due to being hazardous (i.e. dead or so structurally defective that parts or its entirety could fail at any time onto existing high-value targets): **#8, 73, 75, 189, 320, 323, 324, 325, 326, 327, 401 and 402**.

4.0 POTENTIAL TREE IMPACTS

My review of the proposed conceptual plans reveals that by implementation of the current demolition, grading, underground utility, road and driveway design, the following trees within my limit of work area would either be potentially removed or significantly impacted:

- **Removals** (75 in total): #6-11, 28-31, 31a, 32, 33, 37, 38, 42, 44, 51, 54, 60, 62-66, 66a, 78, 187-189, 193, 196-199, 205, 208, 209, 211, 212, 212c, 214-221, 228, 235-238, 263, 266, 268, 269, 278-280, 282, 283, 289, 290, 300-302, 304, 311-314, 323 and 333.
- **Significant Impacts** (19 in total): #36, 39, 43, 52, 70, 83, 190, 191, 227, 234, 264, 271, 285, 286, 306, 310, 341, 351 and 352. By being significantly impacted, they would potentially be subjected to premature decline and/or uprooting.

Of those contained in the **removals list**, two are assigned a high suitability for preservation, whereas the other 73 are assigned a moderate or low suitability. The two assigned high suitability are as follows, and are situated along the edges of lot 6's conceptual building footprint:

- **#209**: 21" coast live oak with 35' canopy spread.
- **#211**: 23" blue oak with a 55' canopy spread.

In the event that one or both were to be retained, setbacks from the trunks for any soil disturbance[2] (e.g.) are 10 to 15 feet for **#209** and 15 to 20 feet for **#211**.

Of those listed to be **significantly impacted**, **seven** are assigned a **high suitability** and are as follows: **#83, 234, 271, 286, 306, 310 and 341**. Should they be retained and adequately protected, I suggest the design incorporates the following setbacks from the their trunks:

- **Tree #83** (21" redwood): Grading within 10 to 15 feet uphill from the trunk should be omitted.

[2] To include, but not necessarily limited to, mass grading (soil cut and fill), finish-grading, overexcavation, subexcavation, trenching and compaction.

- **Tree #234** (27" live oak): The proposed wall, curb, road and all grading should be established at least 15 to 20 feet away. The proposed water meter and joint trench should be shifted to be at least 20 and 25 feet away, respectively.
- **Tree #271** (26" blue oak): Grading should be at least 15 to 20 feet away.
- **Tree #286** (27", 24", 20" redwood): Grading should be at least 15 to 20 feet away.
- **Tree #306** (19" live oak): The water line and meter should at least 25 feet away.
- **Tree #310** (13" Douglas-fir): Grading towards lot 15's driveway should be *at least* seven to ten feet from the trunk (≥ten feet would most effectively minimize impacts).
- **Tree #341** (26", 12", 12" redwood): Grading should be at least 15 to 20 feet away.

An additional impact item includes the proposed removal of **underground utilities, vaults, meters, etc**. beneath canopies. If implemented, trees otherwise planned for retention and protection could be jeopardized. To avoid this, the demolition plan should be modified to show that lines crossing through a dripline but currently shown to be removed are abandoned.

Additional recommendations are presented in the next section of the is report, and should be carefully followed and incorporated into construction plans to achieve a reasonable assurance of survival and stability for trees planned for retention.

5.0 TREE PROTECTION MEASURES

Recommendations presented in this section are based on my review of the conceptual plans provided, and are intended to serve as guidelines for avoiding or mitigating impacts to less-than-significant levels (and considers both trees inventoried and not inventoried for this report). They are subject to revision upon reviewing any additional or revised plans, and I should be consulted in the event any measure cannot be feasibly implemented.

5.1 Design Guidelines

1. **Recommendations** presented in **Section 4.0** of this report shall be considered part of this section.

2. Future submittals for **site demolition**, **mass grading**, **underground utility installation**, and **individual lot development** must **incorporate** the following onto all site-related civil drawings: the site survey showing trunk locations and vertical ground elevations, diameters (by a circle to scale), tree numbers, and outline of canopy dimensions (the dimensions can be contiguous for a group of trees). Additional trees that are located beyond the scope of work limit for this report but would be impacted by the above-mentioned activities may require being evaluated and considered during future design reviews.

3. The **demolition plan** should instruct that all **existing**, unused lines, pipes, vaults, meters and unknown materials (e.g. buried footings, etc.) beneath canopies of retained trees are **abandoned** and cut off at existing soil grade (rather than being dug up and causing subsequent root damage).

4. For this project, the **Tree Protection Zone (hereinafter "TPZ")** should be the ground area away from existing foundations, and to a distance from their trunks (center at base) of six to ten times the diameters; where a tree consists of multiple trunks, the largest trunk would only be considered. The TPZ is where all demolition, grading, overexcavation, subexcavation, soil scraping, trenching and compaction

shall be avoided **except where otherwise approved**. In areas where these setbacks are not feasible, I can be consulted to consider mitigation for an alternative TPZ.

5. The design of all future residences (including construction scaffolding), accessory structures, and driveway clearances (particularly for fire trucks) should allow **retention of large limbs and branches** (e.g. ≥3" to 4" in diameter), and can be reviewed on a case-by-case basis.

6. All **utilities and services** (e.g. storm drain, area drain, joint trenches, electrical, water, sewer, fiber optic, gas, etc.) should be routed beyond TPZs. In the event this is not feasible, the location and proximity to a tree's trunk would dictate which of the following installation methods can offer sufficient mitigation: hand-digging, a pneumatic air device (such as an Air-Spade®), or directional boring. For directional-boring, the ground above any tunnel must remain undisturbed, and access pits and any infrastructure (e.g. splice boxes, meters and vaults) established beyond TPZs.

7. **Swales, biowales and biofiltration areas** should be established well-beyond canopies. Any **swale** required to be within a TPZ should require no more than a three-inch deep cut or fill, avoid cutting through roots ≥two inches in diameter, and not be compacted (foot-tamping is acceptable).

8. Any **future pathway or drive aisle** established within a TPZ should be a **raised or no-dig design**, with a vertical soil cut of no more than two to three inches (including for base material, edging and forms); or where there are large surface roots (e.g. ≥2" in diameter), then on top of the roots (raised above). Additionally, compaction of the soil surface or subgrade must be avoided (foot-tamping is acceptable), and soil fill used to bevel the top of walk or drive to existing grade should be confined to 24 inches beyond their edge, and be at least 24 inches from a tree's trunk. Tensar® Biaxial Geogrid (*www.tensarcorp.com*) can be considered to help achieve these specifications.

9. Where beneath a tree's canopy, **overexcavation, compaction, grading, trenching and other soil disturbance** beyond any approved curb, gutter, pavement, wall or building foundation should be confined to 12 to 24 inches.

10. Any **retaining wall** constructed beneath a canopy for the purposes of **retaining fill** away from a TPZ should be, preferably, established on top of existing soil grade with no footing (e.g. drystack), or alternatively, using a **pier and above-grade beam** foundation, where the piers are minimized in diameter, spaced as far apart as possible, and the beams or spans between the piers established on top or above existing soil grade (i.e. a no-dig design except vertically for the piers). The ground beneath the beams or wall must not be compacted or dug.

11. Any **deck** to be established within a TPZ must be carefully designed to avoid potential significant impacts. In doing so, I recommend posts are planned to be at least ten feet from a trunk, minimized in diameter, and spaced as far apart as possible (e.g. at least five plus feet apart). The design should specify that the post holes be manually dug, and roots two inches and greater in diameter retained and protected during the process (in the event a root of this size is encountered during digging, the hole should be shifted over 12 inches and the process repeated).

12. Where within a TPZ, any **existing base rock** exploited by roots ≥2" in diameter should be retained and utilized as the new base material for any future hardscape.

13. The **erosion control** design should consider that any straw wattle or fiber rolls require a maximum vertical soil cut of two inches for their embedment, and are established as close to canopy edges as possible (and not against a tree trunk).

14. The **staging area(s) and routes of access** should be planned beyond tree canopies.

15. Per Section 29.10.1000(C.1) of the Ordinance, a copy of this or a future, updated report must be incorporated into the final set of project plans; titled **Sheets T-1, T-2, etc**. ("Tree Protection Instructions"); and referenced on all site-related project plans.

16. The proposed landscape **planting design** must consider existing trees being retained (including neighboring trees).

17. The **landscape design** should conform to the following additional guidelines:
    a. **Plant material** installed beneath the canopies of the oaks and cedars must be drought-tolerant, limited in amount, and planted at least five or more feet from their trunks. Plant material installed beneath the canopies of all other trees should be at least 24 to 36 inches from their trunks.
    b. **Irrigation** can, overtime, adversely impact the oaks and cedars and should be avoided. Irrigation for any new plant material beneath an oak's canopy should be low-volume, applied irregularly (such as only once or twice per week), and temporary (such as no more than three years).
    c. **Irrigation** should not be applied within five feet from the oak and cedar trunks, or within six inches from the trunks of all other trees (existing and proposed).
    d. **Irrigation and lighting features** (e.g. main line, lateral lines, valve boxes, wiring and controllers) should be established beyond a TPZ. In the event this is not feasible, they may require being installed in a radial direction to a tree's trunk, and terminate a specific distance from a trunk (versus crossing past it). If this is not possible, the work may need to be performed using a pneumatic air device (such as an Air-Spade®) to avoid root damage. Any Netafim tubing used should be placed on grade, and header lines installed as mentioned above.
    e. **New fencing** (posts) should be placed at least two feet from a tree's trunk (depends on the trunk size and growth pattern).
    f. **Ground cover** beneath canopies should be comprised of a three- to four-inch layer of coarse wood chips or other high-quality mulch (gorilla hair, bark or rock, stone, gravel, black plastic or other synthetic ground cover should be avoided). Mulch should not be placed against the trees' trunks.
    g. **Tilling, ripping and compaction** within TPZs should be avoided.
    h. Bender board or other **edging material** proposed beneath the canopies should be established on top of existing soil grade (such as by using vertical stakes).

18. **Mitigation** is necessary to compensate for the removal of **protected trees**, and Section 29.10.0985 can be used as the framework for determining amounts and sizes. The trees shall be planted prior to final inspection, double-staked with rubber tree ties (may not be necessary for trees of 36-inch box size and larger), and all forms of irrigation be of an automatic drip or soaker hose system placed on the soil surface and not in a sleeve. Additionally, to achieve the greatest assurance of proper installation, all new trees shall be installed, including necessary irrigation, by an experienced California State-licensed landscape contractor or a professional tree company.

19. Upon becoming available, the **individual home and lot designs** should be **reviewed** for tree-related impacts, and project-specific protection measures provided at that time.

5.2 Before and During Construction

20. **Tree protective fencing** shall be installed prior to any demolition and grading. It should be established at least 24 inches from existing hardscape, and placed no farther than 60 inches from a future structure. The fencing should consist of five- to six-foot high chain link mounted on eight-foot tall, two-inch diameter galvanized steel posts that are driven into the ground 24 inches deep, and spaced apart by no more than approximately ten feet. It must remain intact and maintained throughout construction, and only removed upon completion of construction and final inspection.

21. Pursuant to Section 29.10.1005(a)(4) of the Town Code, 8.5- by 11-inch **warning signs** shall be affixed and prominently displayed on each side of fencing opposite the trees' trunks: "WARNING - Tree Protection Zone - this fence shall not be removed and is subject to penalty according to Town Code 29.10.1025." These signs should be intact prior to commencing demolition.

22. Unless otherwise approved, all construction activities must be **conducted beyond TPZs**, to include, but not limited to, the following: demolition, grading,

subexcavation, stripping of topsoil, trenching, equipment cleaning, stockpiling or dumping materials, and equipment/vehicle operation and parking.

23. A **project arborist** should be retained at the onset of demolition, and perform monthly site visits to provide observations and recommendations regarding tree protection measures.

24. The **protection of trunks or major limbs** is also needed to avoid damage to many large limbs and trunks near structures being removed and the routes of access. This involves wrapping orange-plastic fencing around the trunk or limb area to obtain a two-inch thick layer (about 10 layers), then tied together with two-inch thick boards or something similar (per discretion of the project arborist).

25. Prior to construction, a four- to six-inch layer of coarse **wood chips** (¼- to ¾-inches in size) from a local tree-service company should be manually spread the exposed ground within a TPZ, including inside and outside the designated-fenced areas. The chips should not be piled against the trunks, and should remain in place throughout construction.

26. Also prior to construction, a **root zone buffer** may be needed to avoid damaging the section of ground that is within a TPZ but between protection fencing and a foundation. This would be comprised of an eight- to ten-inch layer of **coarse wood chips** manually spread, and plywood of at least ¾-inch thick can be placed on top of the chips and tied together to help create a sturdy walking surface.

27. The **limits of grading** should be **staked** upon completion of demolition and prior to any soil cut, fill or compaction (the protection fencing may also need to be modified at this stage to be protect tree roots).

28. **Great care** must be taken during demolition of **existing hardscape, curb/gutters, staircases, walkways, walls, foundations**, **fences, planter borders, mowbands,**

brick stoves, decks, etc. within a TPZ to avoid excavating into roots and existing grade. Also, **concrete/asphalt grinding** must not extend into existing base material where within a TPZ, and equipment used during the process must not operate or travel on a newly exposed soil surface.

29. **Removal of structures** must also be carefully performed, and the walls pulled in and away from trees, and all heavy equipment operating and traveling **inside the structure** being demolished.

30. The **staging area(s) and routes of access** should be established beyond the TPZs.

31. **Spoils** created during digging should not be piled or spread on unpaved ground within a TPZ, rather they should be temporarily piled on plywood or a tarp.

32. **Tree trunks** must not be used as winch supports for moving or lifting heavy loads.

33. Any approved **digging or trenching** within a **TPZ** shall be **manually performed** without heavy equipment or tractors operating on unpaved ground beneath canopies.

34. Approved **trenching or excavation** should not damage, scrape or gouge **roots two inches and greater in diameter**. In the event these roots are encountered, they should be retained, and the project arborist retained to evaluate. Upon being exposed, they should be either be covered with soil or wrapped in moistened burlap within a few hours of exposure. If burlap is used, it should remain continually moist until the trench or area is backfilled.

35. During **trenching or excavation**, **roots** encountered that have **diameters less than two inches** and require removal can be cleanly severed at right angles to the direction of root growth. In doing so, sharp cutting tools (e.g. loppers or handsaw) shall be used, and the cut should occur against the tree side of the trench.

36. Prior to any grading and excavation for an approved foundation, driveway, wall or walkway within ten feet from a TPZ, **one-foot wide trench** should be **manually dug** along the perimeter of where soil excavation will occur closest to the trees' trunks. The trench should be dug to the required depth (including for base materials) to a distance of five to ten feet beyond a TPZ, and any roots encountered with diameters of one-inch and greater shall be cleanly severed by hand (at 90° to the direction of root growth) against the tree side of the trench. All soil beyond the trench (i.e. away from the tree) can then be mechanically excavated using heavy equipment. Alternatively, the use of a **stump grinder** could be utilized precisely where a curb/gutter and any overcut (12" max) will be established.

37. For any **property fence** or **piers** installed within a TPZ, the posts should be situated at least 24 inches from any trunk, and **manually dug** to the required or a 30-inch depth (whichever is less) using a post-hole digger or shovel. In the event a root of two inches and greater in diameter is encountered during the process, the hole should be shifted over by about 12 inches and the process repeated.

38. **Supplemental water** must be supplied to impacted trees during the dry months of the year (e.g. May thru October), and at approximate rates of ten gallons per inch of trunk diameter every two to three weeks (the amount will vary depending on rooting area and soil capacity). Various methodologies for applying include flooding the inside of a 12-inch tall berm established around the canopy's perimeter (or as close to the perimeter as possible), using soaker hoses, or through deep-root injection.

39. **Removal** of any vegetation or plants within a TPZ must be manually performed versus being excavated. Additionally, any **stumps** removed within a TPZ shall be ground versus excavated.

40. Great care must be taken by **equipment operators** to position their equipment to avoid the trees' trunks and branches, and to avoid or minimize **operation beneath canopies** (which can result in foliage being scorched). Where a conflict exists, the

project arborist should be advised to provide a feasible solution. Please note that the **installation of utilities along the road** will require great attention as many canopies are low-growing and at risk of damage.

41. The **pruning** of trees should be performed prior to the arrival of heavy equipment and demolition operations, and in accordance with ANSI A300-2001 standards, by a California state-licensed tree service company (D-49 classification) that has an ISA (International Society of Arboriculture) certified arborist in a supervisory role, carries General Liability and Worker's Compensation insurance, and abides by ANSI Z133.1-2006 (Safety Operations). The **scope** should be limited to pedestrian, equipment and vehicular clearance; reduction of heavy limb weight; and removing deadwood one-inch and greater in diameter.

42. The **relocation** of any tree should be performed according to the standards set forth in ANSI A300 (Part 6)-2005 Transplanting, and by a company described above. All recommendations provided by the company for pre-, during and post-transplant care should be followed to optimize potential survival and longevity.

43. Fill covering **root collars**[3] should be cleared to minimize the risk of harmful organisms rotting healthy tissue. This work involves manually clearing soil to expose the root collar, work that must be carefully performed to avoid damaging the trunk and roots during the process. Though not necessary, I encourage the use of a pneumatic air device (e.g. an Air-Spade®) by a licensed tree-service contractor to minimize or avoid root and trunk damage. Any **girdling roots** should also be pruned.

44. **Dust** accumulating on trunks and canopies during dry weather periods should be periodically **washed** away (e.g. every month or two).

[3] A "root collar" is the area where the large anchorage roots and main trunk merge, often distinguished by a distinct swelling at a trunk's base.

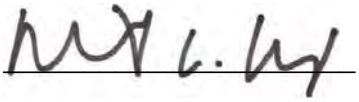
45. **Fertilization**, if properly applied, may benefit a tree's health, vigor and appearance. Prior to doing so, however, soil samples should first be obtained to identify the pH and nutrient levels so a proper fertilization program can be established. I further recommend any fertilization is performed under the direction of a certified arborist, and in accordance with ANSI A300 (Part 2)–2004 Fertilization standards.

46. **Ivy** should be removed off and two feet from the trees' trunks, and the work **manually performed**. All existing **plant material and shrubs** removed within a TPZ shall also be **manually performed**.

47. The **disposal** of harmful products (such as cement, paint, chemicals, oil and gasoline) is prohibited beneath canopies or anywhere on site that allows drainage beneath or near TPZs. **Herbicides** should not be used with a TPZ; where used on site, they should be labeled for safe use near trees.

6.0 ASSUMPTIONS AND LIMITING CONDITIONS

- All information presented herein covers only those trees that were examined, and reflects the size, condition and areas viewed of those trees at the time of my observations.
- My observations were performed visually without probing, coring, dissecting or excavating. I cannot, in any way, assume responsibility for any defects that could only have been discovered by performing the mentioned services in the specific area(s) where a defect was located.
- The assignment pertains solely to trees listed in Exhibit A. I hold no opinion towards other trees on or surrounding the project area.
- I cannot provide a guarantee or warranty, expressed or implied, that deficiencies or problems of any trees or property in question may not arise in the future.
- No assurance can be offered that if all my recommendations and precautionary measures (verbal or in writing) are accepted and followed, that the desired results may be achieved.
- All information presented on the plans reviewed is assumed to be correct. I cannot guarantee or be responsible for the accuracy of information provided by others.
- I assume no responsibility for the means and methods used by any person or company implementing the recommendations provided in this report.
- The information provided herein represents my opinion. Accordingly, my fee is in no way contingent upon the reporting of a specified finding, conclusion or value.
- The tree numbers shown on the site map in Exhibit B are intended to only approximate a tree's location.
- This report is proprietary to me and may not be copied or reproduced in whole or part without prior written consent. It has been prepared for the sole and exclusive use of the parties to who submitted for the purpose of contracting services provided by David L. Babby.
- If any part of this report or copy thereof be lost or altered, the entire evaluation shall be invalid.

Prepared By:  Date: July 11, 2013

David L. Babby

Registered Consulting Arborist® #399

Board-Certified Master Arborist® #WE-4001B

EXHIBIT A:

TREE INVENTORY TABLE

(36 sheets)

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
1	coast live oak (*Quercus agrifolia*)	19	30	70%	40%	Fair	Moderate	-	3
	Comments: Beneath high-voltage electrical wires and has been reduced in height.								
2	Italian stone pine (*Pinus pinea*)	28	45	70%	30%	Fair	Moderate	-	3
	Comments: Roots have raised surface of adjacent parking lot. Misshapen canopy due to clearance from overhead electrical wires. Included bark developing between trunks.								
3	Deodar cedar (*Cedrus deodara*)	10	30	70%	30%	Fair	Moderate	-	3
	Comments: Beneath high-voltage electrical wires and has been reduced in height.								
4	Deodar cedar (*Cedrus deodara*)	20	30	70%	50%	Fair	Moderate	-	4
	Comments: Beneath high-voltage electrical wires and has been reduced in height.								
5	Aleppo pine (*Pinus halapensis*)	22	25	50%	70%	Fair	Moderate	-	3
	Comments: Sparse with some twig dieback.								
6	Douglas-fir (*Pseudotsuga menziesii*)	18	25	60%	85%	Fair	Moderate	X	-
	Comments:								
7	coast live oak (*Quercus agrifolia*)	14	20	50%	40%	Poor	Moderate	X	-
	Comments:								
8	blackwood acacia (*Acacia melanoxylon*)	15	20	60%	30%	Poor	Low	X	-
	Comments: Remove now. A previous trunk failure has left a large, decaying wound at base. Weight is distributed out towards road, and thus, presents a hazard. Decay is also along lower trunk. Has been reduced in height for clearance from high-voltage wires.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
9	coast live oak (*Quercus agrifolia*)	13	35	40%	40%	Poor	Low	X	-
Comments: Sparse canopy. Has been reduced in height for clearance from high-voltage wires.									
10	coast live oak (*Quercus agrifolia*)	15	30	70%	50%	Fair	Moderate	X	-
Comments: Base of trunk is about eight inches from existing building foundation. Concrete patio and walkway are in other directions.									
11	blackwood acacia (*Acacia melanoxylon*)	16, 14	35	60%	30%	Poor	Low	X	-
Comments: Extensive decay and weak structure.									
12	coast live oak (*Quercus agrifolia*)	17	40	80%	50%	Good	High	-	2
Comments: Asymmetrical canopy. Roots have raised adjacent lot.									
13	coast live oak (*Quercus agrifolia*)	9	20	30%	50%	Poor	Low	-	3
Comments: Very sparse canopy and compromised structure due to electrical line clearance.									
15	coast live oak (*Quercus agrifolia*)	12	25	50%	60%	Fair	Moderate	-	3
Comments: Trunk abuts and grows over existing wall.									
16	coast live oak (*Quercus agrifolia*)	9	25	40%	20%	Poor	Low	-	3
Comments: Sparse canopy. Structure compromised from electrical line clearance.									
17	silver-dollar gum (*Eucalyptus polyanthemos*)	32	65	80%	70%	Good	Moderate	-	3
Comments: Large eucalyptus (rather massive given the setting).									

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
18	Deodar cedar (*Cedrus deodara*)	11	35	70%	50%	Fair	Moderate	-	3
	Comments: Grows beneath #17, and consequently, has formed an asymmetrical, one-sided canopy.								
19	silver-dollar gum (*Eucalyptus polyanthemos*)	17	30	60%	40%	Fair	Moderate	-	3
	Comments: Formed by codominant leaders.								
20	silver-dollar gum (*Eucalyptus polyanthemos*)	19	30	70%	60%	Fair	Moderate	-	3
	Comments:								
21	coast live oak (*Quercus agrifolia*)	9	20	85%	60%	Good	Moderate	-	3
	Comments: Adjacent to #20 and has formed an asymmetrical canopy.								
22	glossy privet (*Ligustrum lucidum*)	5	20	40%	70%	Fair	Moderate	-	4
	Comments: Sparse canopy.								
23	coast live oak (*Quercus agrifolia*)	12, 11	35	70%	40%	Fair	Moderate	-	3
	Comments: Asymmetrical canopy away from #25. Trunks have included bark. Discoloration along trunk.								
24	Arizona cypress (*Cupressus arizonica*)	15	30	40%	70%	Fair	Moderate	-	4
	Comments: Sparse canopy.								
25	blue oak (*Quercus douglasii*)	51	90	80%	60%	Good	High	-	3
	Comments: An outstanding oak for this site. Asphalt predominantly covers the dripline.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
26	coast live oak (*Quercus agrifolia*)	12, 10	30	85%	40%	Fair	Moderate	-	4
	Comments:								
27	California black oak (*Quercus kelloggii*)	18	35	70%	60%	Fair	Moderate	-	3
	Comments: Trunk abuts existing, 12" tall rock wall. Has an asymmetrical canopy.								
28	glossy privet (*Ligustrum lucidum*)	16	25	40%	40%	Poor	Low	X	-
	Comments: Multiple leaders with substantial levels of included bark.								
29	silver-dollar gum (*Eucalyptus polyanthemos*)	42	60	70%	50%	Fair	Moderate	X	-
	Comments: Codominant leaders. Large tree abuts existing wall for adjacent wall/ramp.								
30	Peruvian pepper tree (*Schinus molle*)	9, 4, 4	25	30%	50%	Poor	Low	X	-
	Comments: Very sparse canopy beneath #29.								
31	coast live oak (*Quercus agrifolia*)	10	15	60%	50%	Fair	Moderate	X	-
	Comments: Sparse canopy.								
31a	glossy privet (*Ligustrum lucidum*)	6, 5, 4	25	40%	40%	Poor	Low	X	-
	Comments: Added tree.								
32	coast live oak (*Quercus agrifolia*)	10	20	50%	60%	Fair	Moderate	X	-
	Comments: Located near building.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
33	Deodar cedar (*Cedrus deodara*)	28	40	60%	30%	Poor	Moderate	X	-
	Comments: Codominants with included bark.								
34	coast redwood (*Sequoia sempervirens*)	32	40	90%	60%	Good	High	-	3
	Comments: Very top appears to have been reduced in height or broke sometime ago.								
35	silver maple (*Acer saccharinum*)	28	45	50%	30%	Poor	Low	-	2
	Comments: Has been pollarded, and consequently, the ensuing growth is weakly attached.								
36	Deodar cedar (*Cedrus deodara*)	27	40	70%	50%	Fair	Moderate	-	1
	Comments: Upper half compromised of codominants.								
37	silver maple (*Acer saccharinum*)	31	35	60%	30%	Poor	Low	X	-
	Comments: Has been pollarded.								
38	Southern magnolia (*Magnolia grandiflora*)	19	30	40%	50%	Poor	Low	X	-
	Comments: Very sparse canopy. Has decay at base of trunk.								
39	American sweetgum (*Liquidambar styraciflua*)	15	35	80%	70%	Good	Moderate	-	1
	Comments:								
41	American sweetgum (*Liquidambar styraciflua*)	10	25	75%	80%	Good	Moderate	-	3
	Comments:								
42	English yew (*Taxus baccata*)	19	30	85%	40%	Fair	Moderate	X	-
	Comments: Formed by codominants with included bark.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
43	hawthorn (*Crataegus* sp.)	8	25	80%	60%	Good	Moderate	-	1
	Comments:								
44	Hollywood juniper (*Juniperus c* . 'Torulosa')	15, 8	30	60%	50%	Fair	Moderate	X	-
	Comments: Trunk is near building and wall - no apparent damage to these features.								
45	Deodar cedar (*Cedrus deodara*)	25, 17	40	50%	75%	Fair	High	-	3
	Comments: Sparse canopy.								
45a	silver maple (*Acer saccharinum*)	17	35	50%	40%	Poor	Low	-	3
	Comments: Has been pollarded.								
46	Southern magnolia (*Magnolia grandiflora*)	8	25	80%	50%	Fair	Moderate	-	4
	Comments: Suppressed growth beneath #47.								
47	silver maple (*Acer saccharinum*)	31	55	50%	40%	Poor	Low	-	3
	Comments: Two leader form included bark. Has been pollarded.								
48	silver maple (*Acer saccharinum*)	9, 9, 8, 7, 5, 3	40	60%	60%	Fair	Moderate	-	3
	Comments:								
49	Deodar cedar (*Cedrus deodara*)	23	45	50%	80%	Fair	Moderate	-	3
	Comments: Sparse canopy.								
50	coast live oak (*Quercus agrifolia*)	14	30	80%	50%	Fair	Moderate	-	3
	Comments: Asymmetrical canopy that grows beneath and away from #49.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
51	American sweetgum (*Liquidambar styraciflua*)	6	17	90%	70%	Good	Moderate	X	-
	Comments: Has a partial girdling root.								
52	American sweetgum (*Liquidambar styraciflua*)	11	40	80%	70%	Good	Moderate	-	1
	Comments:								
53	Victorian box (*Pittosporum undulatum*)	10, 8	20	50%	40%	Poor	Low	-	2
	Comments: Weakened structure.								
54	Douglas-fir (*Pseudotsuga menziesii*)	28	30	40%	60%	Poor	Low	X	-
	Comments: Significant branch dieback and deadwood.								
55	Douglas-fir (*Pseudotsuga menziesii*)	27	25	60%	70%	Fair	Moderate	-	3
	Comments: Near building.								
56	coast live oak (*Quercus agrifolia*)	5	15	70%	60%	Fair	Moderate	-	3
	Comments:								
57	coast live oak (*Quercus agrifolia*)	7	20	70%	60%	Fair	Moderate	-	3
	Comments: Crowded-growing conditions.								
58	coast live oak (*Quercus agrifolia*)	8	20	70%	60%	Fair	Moderate	-	3
	Comments: Crowded-growing conditions.								
59	coast live oak (*Quercus agrifolia*)	4	20	70%	60%	Fair	Low	-	3
	Comments: Crowded-growing conditions. Removal will benefit adjacent, more dominant oaks.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
60	coast live oak (*Quercus agrifolia*)	13	25	60%	60%	Fair	Moderate	X	-
	Comments: Near building and has a partial girdling root.								
61	coast live oak (*Quercus agrifolia*)	18	30	70%	70%	Good	High	-	3
	Comments: Significant sapsucker damage.								
62	blackwood acacia (*Acacia melanoxylon*)	13, 13, 10, 10, 9, 6	30	50%	30%	Poor	Low	X	-
	Comments:								
63	Victorian box (*Pittosporum undulatum*)	6, 5, 4	25	60%	50%	Fair	Low	X	-
	Comments:								
64	Monterey cypress (*Cupressus macrocarpa*)	31	60	60%	80%	Good	Moderate	X	-
	Comments:								
65	toyon (*Heteromeles arbutifolia*)	6, 6, 5	20	60%	50%	Fair	Moderate	X	-
	Comments:								
66	Arizona cypress (*Cupressus arizonica*)	14, 12, 8	30	40%	40%	Poor	Low	X	-
	Comments: Very sparse canopy.								
66a	Jacaranda (*Jacaranda mimosifolia*)	4	15	40%	70%	Poor	Low	X	-
	Comments: Very sparse canopy.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
67	shamel ash (*Fraxinus uhdei*)	20	45	40%	60%	Poor	Low	-	2
	Comments: Has a sparse canopy and a large girdling root.								
68	shamel ash (*Fraxinus uhdei*)	27	30	60%	70%	Fair	Moderate	-	3
	Comments:								
69	fern pine (*Podocarpus gracilior*)	7	20	60%	50%	Fair	Low	-	3
	Comments: Tree is growing against building.								
70	Japanese maple (*Acer palmatum*)	14	25	50%	50%	Fair	Moderate	-	1
	Comments: Dieback possibly due to verticillium wilt.								
71	American sweetgum (*Liquidambar styraciflua*)	9	30	60%	30%	Poor	Low	-	3
	Comments: Significant decay along lower trunk.								
72	coast live oak (*Quercus agrifolia*)	17	35	70%	40%	Fair	Moderate	-	2
	Comments: Healthy tree.								
73	blackwood acacia (*Acacia melanoxylon*)	12, 12, 12, 6	30	60%	30%	Poor	Low	-	3
	Comments: Should be removed now. Formed by stump sprouts prone to failure (road in striking distance).								
74	California black oak (*Quercus kelloggii*)	13	20	70%	50%	Fair	Moderate	-	3
	Comments: Pruned for electrical wire clearance. Has a highly asymmetrical canopy away from road.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
75	coast live oak (*Quercus agrifolia*)	12	-	0%	0%	Dead	Low	-	3
	Comments: Remove now due to being dead and overhanging road.								
76	California black oak (*Quercus kelloggii*)	23	35	60%	50%	Fair	Moderate	-	3
	Comments: Trunk abuts existing wall along road. Pruned for electrical wire clearance. Sparse canopy.								
77	coast live oak (*Quercus agrifolia*)	14	40	80%	50%	Fair	High	-	2
	Comments: Understory to #78 and has an asymmetrical canopy. Trunk diameter likely 19 inches.								
78	blue oak (*Quercus douglasii*)	41	55	70%	40%	Fair	Moderate	X	-
	Comments: Has decaying wounds around entire circumference at grade. Inspect further (internally with a resistograph or equivalent) to determine appropriate disposition. Condition and suitability for preservation subject to change depending on this inspection. Base of trunk grows over adjacent asphalt path.								
79	coast live oak (*Quercus agrifolia*)	14	25	80%	40%	Fair	Moderate	-	3
	Comments: Has a highly asymmetrical canopy. Included bark developing between two leaders.								
80	glossy privet (*Ligustrum lucidum*)	6, 6	20	80%	40%	Fair	Moderate	-	4
	Comments: Removing tree will benefit adjacent oaks by reducing competition.								
81	coast live oak (*Quercus agrifolia*)	11, 4	35	80%	40%	Fair	Moderate	-	4
	Comments: Crowded-growing conditions. Has western sycamore borer. Two trunks have one-foot of included bark.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
82	blue oak (*Quercus douglasii*)	15	25	90%	90%	Good	High	-	4
	Comments: Asymmetrical canopy away from #81.								
83	coast redwood (*Sequoia sempervirens*)	21	30	70%	90%	Good	High	-	1
	Comments:								
84	strawberry tree (*Arbutus unedo*)	7, 4, 4	15	70%	50%	Fair	Moderate	-	4
	Comments:								
85	American arborvitae (*Thuja occidentalis*)	13	20	20%	50%	Poor	Low	-	4
	Comments: Tree is dying. Multiple leaders.								
86	coast redwood (*Sequoia sempervirens*)	26	30	80%	80%	Good	High	-	2
	Comments:								
87	coast live oak (*Quercus agrifolia*)	8	20	80%	70%	Good	High	-	4
	Comments: Has a large girdling root.								
88	blackwood acacia (*Acacia melanoxylon*)	20	25	70%	40%	Fair	Low	-	5
	Comments:								
89	Peruvian pepper tree (*Schinus molle*)	12, 9	25	70%	40%	Fair	Low	-	5
	Comments: The smaller trunk is significantly decayed, and the other has decay along middle of its trunk.								
90	incense cedar (*Calocedrus decurrens*)	10	20	50%	40%	Poor	Low	-	3
	Comments: Crowded-growing conditions and has declined. Has a wound along lower trunk.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
91	incense cedar (*Calocedrus decurrens*)	10	15	50%	50%	Fair	Moderate	-	3
	Comments: Crowded-growing conditions. Has a sparse and declining canopy.								
92	Aleppo pine (*Pinus halapensis*)	4	10	70%	40%	Fair	Moderate	-	5
	Comments:								
93	Juniper (*Juniperus* sp.)	13, 10, 8	30	80%	40%	Fair	Moderate	-	5
	Comments: The shorter two trunks grow mostly laterally.								
94	Colorado blue spruce (*Picea p* . 'Glauca')	25	35	60%	70%	Fair	Moderate	-	3
	Comments: At top of bank. Base of trunk abuts and raises adjacent asphalt path. Has a sparse canopy.								
95	Juniper (*Juniperus* sp.)	26	35	80%	60%	Good	Moderate	-	3
	Comments:								
96	Juniper (*Juniperus* sp.)	18	30	80%	50%	Fair	Moderate	-	4
	Comments: Grows with a lean.								
97	Juniper (*Juniperus* sp.)	14	25	80%	50%	Fair	Moderate	-	4
	Comments: Grows with a lean.								
98	English yew (*Taxus baccata*)	11	16	60%	50%	Fair	Moderate	-	3
	Comments:								
99	Arizona cypress (*Cupressus arizonica*)	15	30	40%	40%	Poor	Low	-	3
	Comments: Very sparse canopy. Has a history of branch failure. Large limb recently broke from the uppermost canopy (a codominant to the remaining limb).								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
100	Italian cypress (*Cupressus sempervirens*)	15	20	60%	50%	Fair	Moderate	-	3
	Comments:								
101	California bay tree (*Umbellularia californica*)	15	30	70%	50%	Fair	Moderate	-	4
	Comments:								
102	California black oak (*Quercus kelloggii*)	10	20	60%	50%	Fair	Moderate	-	3
	Comments: Has extensive mistletoe throughout upper canopy. Crowded-growing conditions.								
103	Cypress (*Cupressus sp* .)	9, 6	25	50%	40%	Poor	Low	-	4
	Comments: Sparse canopy and highly crowded-growing conditions.								
104	California bay tree (*Umbellularia californica*)	26	35	40%	50%	Poor	Low	-	4
	Comments: Sparse canopy.								
118	Juniper (*Juniperus* sp.)	14	20	70%	50%	Fair	Moderate	-	3
	Comments: Low trunk growing along/near ground.								
119	incense cedar (*Calocedrus decurrens*)	8	15	70%	90%	Good	Moderate	-	4
	Comments:								
120	American arborvitae (*Thuja occidentalis*)	5, 4, 3(4), 2(2)	20	50%	50%	Fair	Low	-	3
	Comments: Sparse canopy.								
121	Italian cypress (*Cupressus sempervirens*)	20	20	80%	60%	Good	Moderate	-	4
	Comments: Section at top of tree is dead.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
121a	blue oak (*Quercus douglasii*)	37	40	40%	20%	Poor	Low	-	3
	Comments: Has a massive, decaying hollow filled with concrete, and two of three leaders also have extensive decaying hollow. Overall, the structure is very weak, but is an interesting tree worth keeping provided that no targets are introduced within striking distance, and pruning is performed. The "a" of the #121a is not shown on the survey (and added to the report map).								
122	California bay tree (*Umbellularia californica*)	18	25	70%	60%	Fair	Moderate	-	3
	Comments:								
123	Juniper (*Juniperus* sp.)	13	25	40%	50%	Poor	Low	-	3
	Comments: Trunk is at edge of rock staircase and growing into stone stove.								
138	toyon (*Heteromeles arbutifolia*)	8	15	50%	75%	Fair	Moderate	-	5
	Comments:								
139	blue oak (*Quercus douglasii*)	19	30	90%	50%	Good	High	-	5
	Comments: Crowded-growing conditions have formed an asymmetrical and suppressed canopy.								
140	blue oak (*Quercus douglasii*)	10	25	50%	50%	Fair	Moderate	-	4
	Comments: Sparse canopy.								
141	blue oak (*Quercus douglasii*)	11	45	50%	40%	Poor	Moderate	-	3
	Comments: Situated within a raised planter. Sparse canopy. Has a buried root collar. Suppressed canopy.								
142	Arizona cypress (*Cupressus arizonica*)	20	45	50%	60%	Fair	Moderate	-	3
	Comments: Has a history of branches failing.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
143	Arizona cypress (*Cupressus arizonica*)	18	30	50%	60%	Fair	Moderate	-	3
	Comments:								
144	California bay tree (*Umbellularia californica*)	13	25	60%	40%	Fair	Moderate	-	3
	Comments: Crowded-growing conditions. Multiple leaders.								
157a	coast live oak (*Quercus agrifolia*)	7	25	80%	60%	Good	High	-	3
	Comments: Buried root collar. Trunk is within one-foot of wood fence.								
158	blue oak (*Quercus douglasii*)	17	30	40%	60%	Poor	Moderate	-	3
	Comments: Very sparse canopy. Root collar is buried.								
159	blue oak (*Quercus douglasii*)	13	35	60%	50%	Fair	Moderate	-	3
	Comments: In raised planter. Canopy is asymmetrical.								
160	Lemonwood tree (*Pittosporum eugenioides*)	9, 8, 7	30	50%	40%	Poor	Low	-	3
	Comments: Crowded-growing conditions.								
160a	Lemonwood tree (*Pittosporum eugenioides*)	8	15	60%	70%	Fair	Moderate	-	3
	Comments: Crowded-growing conditions. Added tree.								
161	Douglas-fir (*Pseudotsuga menziesii*)	11	20	80%	70%	Good	High	-	3
	Comments:								
162	Ponderosa pine (*Pinus ponderosa*)	18	30	80%	80%	Good	High	-	3
	Comments:								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
163	maple (*Acer* sp.)	9	20	70%	60%	Fair	Moderate	-	3
	Comments:								
164	blue oak (*Quercus douglasii*)	9	25	60%	60%	Fair	Moderate	-	3
	Comments: Crowded-growing conditions, asymmetrical canopy, and adjacent to stone wall.								
165	coast live oak (*Quercus agrifolia*)	26	55	90%	80%	Good	High	-	2
	Comments: Root collar is buried along uphill side.								
166	coast live oak (*Quercus agrifolia*)	7	15	70%	40%	Fair	Moderate	-	3
	Comments: Narrow canopy, crowded-growing conditions and asymmetrical canopy.								
167	coast live oak (*Quercus agrifolia*)	19	35	90%	70%	Good	High	-	3
	Comments: Buried root collar.								
173	coast redwood (*Sequoia sempervirens*)	21	30	60%	40%	Fair	Moderate	-	3
	Comments: Top of tree was either removed or broke off in past.								
173a	hawthorn (*Crataegus* sp.)	4, 3	15	60%	50%	Fair	Moderate	-	3
	Comments:								
173b	California bay tree (*Umbellularia californica*)	6, 6, 4	20	70%	40%	Fair	Low	-	3
	Comments: Added tree.								
173c	blue elderberry (*Sambucus caerulea*)	8	15	40%	50%	Poor	Low	-	3
	Comments: Substantial amount of canopy is dead/declined. Added tree.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
174	blue oak (*Quercus douglasii*)	28	50	60%	60%	Fair	High	-	3
	Comments: Multiple leaders.								
176	California bay tree (*Umbellularia californica*)	14	30	70%	50%	Fair	Moderate	-	2
	Comments: In a raised planter. Wall surrounds two sides, a factor that inhibits favorable lateral root growth.								
177	coast redwood (*Sequoia sempervirens*)	17	20	50%	80%	Fair	Moderate	-	3
	Comments: Sparse canopy.								
178	incense cedar (*Calocedrus decurrens*)	10	20	80%	60%	Good	Moderate	-	3
	Comments:								
179	incense cedar (*Calocedrus decurrens*)	10	15	70%	70%	Good	Moderate	-	3
	Comments:								
180	incense cedar (*Calocedrus decurrens*)	9	15	70%	70%	Good	Moderate	-	3
	Comments:								
181	incense cedar (*Calocedrus decurrens*)	9	20	60%	70%	Fair	Moderate	-	3
	Comments:								
186	coast live oak (*Quercus agrifolia*)	10	30	70%	50%	Fair	Moderate	-	4
	Comments: Asymmetrical canopy partly beneath #165's.								
187	California bay tree (*Umbellularia californica*)	18	25	70%	40%	Fair	Moderate	X	-
	Comments:								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
188	coast redwood (*Sequoia sempervirens*)	7	15	8%	60%	Good	Moderate	X	-
	Comments: Possible candidate to relocate.								
189	blackwood acacia (*Acacia melanoxylon*)	21	30	60%	20%	Poor	Low	X	-
	Comments: Remove now. Past stem failure has resulted in a massive decaying wound that adversely impacts remaining section.								
190	blue oak (*Quercus douglasii*)	25	60	70%	50%	Fair	Moderate	-	1
	Comments: Sparse, highly asymmetrical canopy towards the west. The west leader has substantial decay should be lightened. Has large deadwood.								
191	Deodar cedar (*Cedrus deodara*)	19	30	60%	70%	Fair	Moderate	-	1
	Comments: Sparse canopy.								
192	blue oak (*Quercus douglasii*)	25	55	40%	50%	Poor	Moderate	-	2
	Comments: Excessively raised canopy (little remains). Has large deadwood and a small girdling root.								
193	Lemonwood tree (*Pittosporum eugenioides*)	8	20	70%	50%	Fair	Moderate	X	-
	Comments:								
194	silk oak (*Grevillea robusta*)	15	25	50%	30%	Poor	Low	-	3
	Comments: Extensive decay along lower trunk.								
195	crabapple (*Malus floribunda*)	8, 4	35	70%	40%	Fair	Moderate	-	3
	Comments:								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
196	coast redwood (*Sequoia sempervirens*)	6	15	70%	80%	Good	Moderate	X	-
	Comments: Possible relocation.								
197	Juniper (*Juniperus* sp.)	12	25	90%	80%	Good	Moderate	X	-
	Comments:								
198	blackwood acacia (*Acacia melanoxylon*)	22	25	50%	30%	Poor	Low	X	-
	Comments: Twig dieback.								
199	red-flowering gum (*Corymbia ficifolia*)	25	35	90%	80%	Good	Moderate	X	-
	Comments:								
200	Italian cypress (*Cupressus sempervirens*)	18	10	80%	40%	Fair	Moderate	-	3
	Comments:								
201	California bay tree (*Umbellularia californica*)	7	25	70%	60%	Fair	Moderate	-	3
	Comments:								
202	blue oak (*Quercus douglasii*)	35	60	70%	40%	Fair	High	-	3
	Comments: Seemingly worth keeping and pruning. Has a buried root collar. The wound from largest cut made on this tree is decaying. Should be designed around.								
203	English holly (*Ilex aquifolium*)	11	25	80%	50%	Fair	Moderate	-	3
	Comments:								

TREE INVENTORY TABLE

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		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
204	hawthorn (*Crataegus* sp.)	9, 4, 3	25	70%	40%	Fair	Moderate	-	2
	Comments:								
205	hawthorn (*Crataegus* sp.)	9, 6	35	70%	40%	Fair	Moderate	X	-
	Comments:								
206	California black oak (*Quercus kelloggii*)	20	40	80%	70%	Good	High	-	2
	Comments:								
207	California black oak (*Quercus kelloggii*)	8	15	60%	30%	Poor	Low	-	3
	Comments: Asymmetrical away from #210. Has an extensive decay column.								
208	coast live oak (*Quercus agrifolia*)	12	25	70%	50%	Fair	Moderate	X	-
	Comments: Asymmetrical canopy away from #209.								
209	coast live oak (*Quercus agrifolia*)	21	35	80%	50%	Fair	High	X	-
	Comments: Multiple leaders with some included bark. Has an asymmetrical and one-sided canopy directed away from lot 6 building envelope.								
210	blue oak (*Quercus douglasii*)	6	20	70%	40%	Fair	Moderate	-	3
	Comments: Crowded-growing conditions.								
211	blue oak (*Quercus douglasii*)	23	55	70%	70%	Good	High	X	-
	Comments: Deadwood in lower canopy.								

TREE INVENTORY TABLE

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		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
212	coast live oak (*Quercus agrifolia*)	6	20	70%	50%	Fair	Moderate	X	-
	Comments: Possible relocation. Location on map is incorrect - see map in this report (near #215 and not #226).								
212a	coast live oak (*Quercus agrifolia*)	8	15	70%	50%	Fair	Moderate	-	3
	Comments: Added tree. Within and surrounded by a small/dense grove of tall shrubs.								
212b	coast redwood (*Sequoia sempervirens*)	5	15	80%	80%	Good	Moderate	-	2
	Comments: Added tree. Adjacent to #226 and 227.								
212c	maple (*Acer* sp.)	7	20	60%	40%	Fair	Moderate	X	-
	Comments: Added tree. Trunk and lower canopy are coverd by ivy. Near #214 and 215.								
213	American arborvitae (*Thuja occidentalis*)	6, 4, 4, 3	15	40%	60%	Poor	Low	-	2
	Comments: Sparse and declining canopy.								
214	Juniper (*Juniperus* sp.)	14	25	50%	50%	Fair	Moderate	X	-
	Comments: At edge pond.								
215	Juniper (*Juniperus* sp.)	9, 7	30	60%	40%	Fair	Moderate	X	-
	Comments: The two trunks are what remains of a previous five-trunk tree. At bank of pond.								
216	Cypress (*Cupressus sp*.)	12	25	40%	40%	Poor	Low	X	-
	Comments: Sparse canopy and multiple leaders.								

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		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
217	hawthorn (*Crataegus* sp.)	6	20	60%	40%	Fair	Low	X	-
	Comments:								
218	Cypress (*Cupressus sp* .)	9, 9, 7	30	30%	50%	Poor	Low	X	-
	Comments: Declining canopy.								
219	California bay tree (*Umbellularia californica*)	11, 9, 7	20	50%	0%	Poor	Low	X	-
	Comments: Extensive decay columns in all three trunks.								
220	Juniper (*Juniperus* sp.)	14, 11	40	50%	50%	Fair	Moderate	X	-
	Comments: Sparse canopy.								
221	crabapple (*Malus floribunda*)	5	25	60%	40%	Fair	Moderate	X	-
	Comments:								
222	Cypress (*Cupressus sp* .)	12	25	40%	60%	Poor	Moderate	-	3
	Comments: Declining, sparse canopy.								
223	blue oak (*Quercus douglasii*)	23	40	60%	50%	Fair	High	-	3
	Comments: Asymmetrical canopy due to competition with #211.								
224	blue oak (*Quercus douglasii*)	11	20	60%	50%	Fair	Moderate	-	4
	Comments: Asymmetrical canopy due to competition with #221 and 223.								
225	California bay tree (*Umbellularia californica*)	12	25	80%	50%	Fair	Moderate	-	3
	Comments:								

TREE INVENTORY TABLE

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		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
226	coast redwood (*Sequoia sempervirens*)	24	30	60%	80%	Fair	Moderate	-	2
	Comments:								
227	blackwood acacia (*Acacia melanoxylon*)	30	45	80%	50%	Fair	Moderate	-	1
	Comments:								
228	Deodar cedar (*Cedrus deodara*)	18	50	40%	50%	Poor	Low	X	-
	Comments: Extremely sparse canopy.								
229	California black oak (*Quercus kelloggii*)	30	80	60%	60%	Fair	High	-	2
	Comments: Base of trunk grows over existing staircase.								
234	coast live oak (*Quercus agrifolia*)	27	75	70%	60%	Fair	High	-	1
	Comments:								
235	coast live oak (*Quercus agrifolia*)	10	25	70%	50%	Fair	Moderate	X	-
	Comments: Suppressed growth beneath #234.								
236	Douglas-fir (*Pseudotsuga menziesii*)	19	35	75%	50%	Fair	Moderate	X	-
	Comments: Asymmetrical, one-sided canopy than grows along #234's.								
237	California black oak (*Quercus kelloggii*)	9	30	60%	60%	Fair	Moderate	X	-
	Comments: Lower canopy is asymmetrical. Sparse growth. Possible relocation if health can improve.								
238	coast live oak (*Quercus agrifolia*)	16	40	30%	50%	Poor	Low	X	-
	Comments: Significant decline and dieback.								

TREE INVENTORY TABLE

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		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
240	blue oak (*Quercus douglasii*)	29	40	70%	60%	Fair	High	-	3
	Comments:								
241	blue oak (*Quercus douglasii*)	29	35	60%	50%	Fair	High	-	3
	Comments:								
242	coast live oak (*Quercus agrifolia*)	14, 9	30	80%	60%	Good	High	-	3
	Comments: Adjacent to existing building.								
243	Arizona cypress (*Cupressus arizonica*)	5	25	70%	70%	Good	Moderate	-	3
	Comments:								
245	blue oak (*Quercus douglasii*)	31	60	50%	70%	Fair	High	-	2
	Comments: Adjacent to existing building. Sparse canopy.								
246	blue oak (*Quercus douglasii*)	32	60	70%	50%	Fair	High	-	3
	Comments:								
247	coast live oak (*Quercus agrifolia*)	9	40	80%	50%	Fair	Moderate	-	3
	Comments: Beneath #246, crowded-growing conditions.								
248	California black oak (*Quercus kelloggii*)	8	30	80%	50%	Fair	Moderate	-	3
	Comments: Crowded-growing conditions.								

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		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
249	California buckeye (*Aesculus californica*)	8	30	80%	50%	Fair	Moderate	-	4
	Comments: Crowded-growing conditions. Location differs from survey - see report map.								
259	California black oak (*Quercus kelloggii*)	19	55	80%	50%	Fair	High	-	3
	Comments: Asymmetrical canopy away from #263.								
260	California black oak (*Quercus kelloggii*)	7	18	70%	50%	Fair	Moderate	-	2
	Comments: Beneath adjacent oak #263.								
261	blue oak (*Quercus douglasii*)	30	65	70%	50%	Fair	High	-	3
	Comments: Has a one-sided canopy (due to past pruning) and a slight leans away from future home. A root collar excavation and examination should occur to confirm the presence or absence of any harmful root-rotting organisms.								
262	coast live oak (*Quercus agrifolia*)	11	25	80%	60%	Good	High	-	2
	Comments: Beneath canopy of #263. Possible relocation.								
263	blue oak (*Quercus douglasii*)	40	50	40%	40%	Poor	Moderate	X	-
	Comments: Very sparse, declining canopy. Substantial decay at base. Old phone wire within canopy.								
264	coast redwood (*Sequoia sempervirens*)	20	30	60%	80%	Fair	High	-	3
	Comments:								
265	coast live oak (*Quercus agrifolia*)	11	25	60%	70%	Fair	Moderate	-	1
	Comments: Western sycamore borer damage along lower trunk. Possible relocation.								

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		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
266	coast live oak (*Quercus agrifolia*)	19	30	80%	50%	Fair	Moderate	X	-
	Comments: Mostly one-sided canopy due to having been pruned away from adjacent building. Trunk is within two to four feet from foundation.								
267	strawberry tree (*Arbutus unedo*)	6, 5, 4(3)	25	80%	70%	Good	Moderate	-	2
	Comments: Possible relocation.								
268	blue oak (*Quercus douglasii*)	17	25	30%	40%	Poor	Low	X	-
	Comments: Significant decline and large deadwood.								
269	evergreen pear (*Pyrus kawakamii*)	11	30	40%	40%	Poor	Low	X	-
	Comments: Large wound along trunk. Mistletoe within a sparse canopy.								
270	California black oak (*Quercus kelloggii*)	17	35	80%	70%	Good	High	-	2
	Comments: History of branch failure.								
271	blue oak (*Quercus douglasii*)	26	45	90%	60%	Good	High	-	1
	Comments: Buried root collar at uphill side. Asymmetrical canopy due to being pruned away from building.								
272	blue oak (*Quercus douglasii*)	18	35	80%	80%	Good	High	-	2
	Comments: Buried root collar along uphill side.								
273	California black oak (*Quercus kelloggii*)	9	20	60%	40%	Fair	Moderate	-	3
	Comments: A previous trunk failure has left a decaying wound at abase.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
274	California black oak (*Quercus kelloggii*)	12	25	70%	50%	Fair	High	-	3
	Comments: Trunk is about four feet from existing foundation. Asymmetrical canopy due to being pruned away from building.								
275	California black oak (*Quercus kelloggii*)	18	30	70%	40%	Fair	Moderate	-	3
	Comments: Broken branch and deadwood. There is an old cavity with good woundwood forming at base.								
276	coast live oak (*Quercus agrifolia*)	6	25	70%	40%	Fair	Moderate	-	3
	Comments: Trunk grows against fence post and is being girdled by fencing material.								
277	black locust (*Robinia pseudoacacia*)	16	30	40%	20%	Poor	Low	-	3
	Comments: Declining and has a terribly weak structure that will inevitably split apart.								
278	black locust (*Robinia pseudoacacia*)	13	25	40%	20%	Poor	Low	X	-
	Comments: Declining and has large deadwood at top of canopy.								
279	glossy privet (*Ligustrum lucidum*)	19	25	60%	50%	Fair	Moderate	X	-
	Comments: Codominant stems.								
280	California bay tree (*Umbellularia californica*)	11	15	20%	30%	Poor	Low	X	-
	Comments: Severe trunk decay (not much left of the tree). A remaining lateral branch assumes the leader.								
282	coast live oak (*Quercus agrifolia*)	7	15	80%	50%	Fair	Moderate	X	-
	Comments: Very narrow and asymmetrical canopy. Crowded-growing conditions.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
283	Canary Island Date palm (*Phoenix canariensis*)	32	30	70%	90%	Good	Moderate	X	-
	Comments: Possible relocation. Approximately 10 brown-trunk feet.								
284	American sweetgum (*Liquidambar styraciflua*)	11	25	70%	70%	Fair	Moderate	-	2
	Comments:								
285	coast redwood (*Sequoia sempervirens*)	22, 19	30	40%	50%	Poor	Moderate	-	1
	Comments: Sparse canopy. Formed by codominant trunks with included bark developing.								
286	coast redwood (*Sequoia sempervirens*)	27, 24, 20	35	70%	80%	Good	High	-	1
	Comments:								
287	incense cedar (*Calocedrus decurrens*)	18	20	80%	70%	Good	Moderate	-	2
	Comments: Vertical growth competing with branches from #286.								
288	hawthorn (*Crataegus* sp.)	11	25	70%	30%	Fair	Moderate	-	3
	Comments: Beneath #287.								
289	California black oak (*Quercus kelloggii*)	9	30	70%	60%	Fair	Moderate	X	-
	Comments: Sparse and asymmetrical canopy away from previously existing tree.								
290	Chinese elm (*Ulmus parvifolia*)	19	35	70%	50%	Fair	Moderate	X	-
	Comments: Sparse, asymmetrical canopy.								
291	California black oak (*Quercus kelloggii*)	9	30	70%	60%	Fair	Moderate	-	4
	Comments: Asymmetrical from surrounding, competing canopies.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
293	hawthorn (*Crataegus* sp.)	8	20	60%	70%	Fair	Moderate	-	4
	Comments: Asymmetrical canopy.								
294	blue oak (*Quercus douglasii*)	28	40	70%	70%	Good	High	-	4
	Comments:								
295	blue oak (*Quercus douglasii*)	19	45	60%	50%	Fair	Moderate	-	4
	Comments: Buried root collar along uphill side. Massive limb failure in past.								
297	Siberian elm (*Ulmus pumila*)	11, 11	45	40%	30%	Poor	Low	-	3
	Comments: A previous trunk failure has left a large wound at base.								
298	California black oak (*Quercus kelloggii*)	6	20	80%	50%	Fair	Moderate	-	3
	Comments: Beneath #297 and has a buried root collar.								
299	California buckeye (*Aesculus californica*)	4	25	80%	50%	Fair	Moderate	-	3
	Comments: Large wound along lower trunk. Beneath #286 and 27.								
300	incense cedar (*Calocedrus decurrens*)	10	25	80%	80%	Good	Moderate	X	-
	Comments: Possible relocation.								
301	coast live oak (*Quercus agrifolia*)	11	25	10%	20%	Poor	Low	X	-
	Comments: Significant decline along lower trunk.								
302	coast live oak (*Quercus agrifolia*)	13	40	50%	80%	Fair	Moderate	X	-
	Comments: Sparse canopy.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
304	incense cedar (*Calocedrus decurrens*)	10	20	80%	50%	Fair	Moderate	X	-
	Comments: Base of trunk is a few feet from the top of wall raised above an adjacent sport court.								
306	coast live oak (*Quercus agrifolia*)	19	30	80%	70%	Good	High	-	1
	Comments: In raised planter. Canopy near utility pole by approximately 12 feet.								
307	coast redwood (*Sequoia sempervirens*)	7	20	50%	70%	Fair	Moderate	-	2
	Comments: Sparse canopy.								
308	strawberry tree (*Arbutus unedo*)	12, 10	35	80%	60%	Good	Moderate	-	2
	Comments:								
308a	strawberry tree (*Arbutus unedo*)	6, 5	15	40%	40%	Poor	Moderate	-	3
	Comments:								
308b	strawberry tree (*Arbutus unedo*)	6, 5, 3, 2	20	60%	60%	Fair	Moderate	-	3
	Comments:								
308c	strawberry tree (*Arbutus unedo*)	7, 6, 4, 3	15	60%	60%	Fair	Moderate	-	3
	Comments:								
308d	strawberry tree (*Arbutus unedo*)	5(3), 4	15	60%	60%	Fair	Moderate	-	2
	Comments:								
308e	strawberry tree (*Arbutus unedo*)	5, 4, 3, 3, 2	15	60%	60%	Fair	Moderate	-	2
	Comments:								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
308f	strawberry tree (*Arbutus unedo*)	4, 3, 2	10	40%	60%	Fair	Moderate	-	2
	Comments:								
308g	strawberry tree (*Arbutus unedo*)	6, 5	15	50%	60%	Fair	Moderate	-	2
	Comments:								
309	strawberry tree (*Arbutus unedo*)	5, 5, 4, 4, 3	20	60%	60%	Fair	Moderate	-	3
	Comments:								
310	Douglas-fir (*Pseudotsuga menziesii*)	13	30	90%	100%	Good	High	-	1
	Comments:								
311	Douglas-fir (*Pseudotsuga menziesii*)	9, 8	25	70%	40%	Fair	Moderate	X	-
	Comments: The two trunks wrap around another.								
312	Douglas-fir (*Pseudotsuga menziesii*)	10	25	50%	50%	Fair	Moderate	X	-
	Comments: Declining. Beneath high-voltage wires.								
313	Douglas-fir (*Pseudotsuga menziesii*)	10	25	70%	40%	Fair	Moderate	X	-
	Comments: Beneath high-voltage wires.								
314	Douglas-fir (*Pseudotsuga menziesii*)	9	25	50%	40%	Poor	Low	X	-
	Comments: Beneath high-voltage wires. Sparse canopy.								
315	Douglas-fir (*Pseudotsuga menziesii*)	5	10	30%	40%	Poor	Low	-	3
	Comments: Beneath high-voltage wires. Extremely sparse canopy.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
316	Douglas-fir (*Pseudotsuga menziesii*)	5	15	40%	40%	Poor	Low	-	3
Comments: Beneath high-voltage wires. Very sparse canopy.									
317	Douglas-fir (*Pseudotsuga menziesii*)	9	20	70%	40%	Fair	Moderate	-	3
Comments: Beneath high-voltage wires.									
318	Douglas-fir (*Pseudotsuga menziesii*)	9	20	60%	40%	Fair	Moderate	-	3
Comments: Beneath high-voltage wires.									
319	Douglas-fir (*Pseudotsuga menziesii*)	10	20	70%	40%	Fair	Moderate	-	3
Comments: Beneath high-voltage wires and adjacent to utility pole.									
320	Douglas-fir (*Pseudotsuga menziesii*)	6	-	0%	0%	Dead	Low	-	-
Comments: Beneath high-voltage wires. Remove immediately - dead tree.									
321	Douglas-fir (*Pseudotsuga menziesii*)	11	20	40%	40%	Poor	Low	-	3
Comments: Beneath high-voltage wires. Very sparse canopy.									
322	Douglas-fir (*Pseudotsuga menziesii*)	4	15	30%	40%	Poor	Low	-	3
Comments: Beneath high-voltage wires. Extremely sparse canopy.									
323	Douglas-fir (*Pseudotsuga menziesii*)	8	-	0%	0%	Dead	Low	X	-
Comments: Beneath high-voltage wires. Remove immediately - dead tree.									
324	Douglas-fir (*Pseudotsuga menziesii*)	19, 14	-	0%	0%	Dead	Low	-	-
Comments: Remove immediately - dead tree.									

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
325	Douglas-fir (*Pseudotsuga menziesii*)	12	-	0%	0%	Dead	Low	-	-
	Comments: Remove immediately - dead tree.								
326	Douglas-fir (*Pseudotsuga menziesii*)	13	-	0%	0%	Dead	Low	-	-
	Comments: Remove immediately - dead tree.								
327	Douglas-fir (*Pseudotsuga menziesii*)	9	-	0%	0%	Dead	Low	-	-
	Comments: Remove immediately - dead tree.								
328	Douglas-fir (*Pseudotsuga menziesii*)	14	20	40%	60%	Poor	Moderate	-	3
	Comments: Very sparse canopy. Possible girdling root.								
329	Douglas-fir (*Pseudotsuga menziesii*)	17	25	40%	70%	Poor	Moderate	-	3
	Comments: Very sparse canopy.								
330	Douglas-fir (*Pseudotsuga menziesii*)	16	25	40%	70%	Poor	Moderate	-	3
	Comments: Very sparse canopy.								
331	Douglas-fir (*Pseudotsuga menziesii*)	10	15	30%	60%	Poor	Low	-	3
	Comments: Extremely sparse canopy.								
332	Douglas-fir (*Pseudotsuga menziesii*)	14	20	50%	60%	Fair	Moderate	-	3
	Comments:								
333	Douglas-fir (*Pseudotsuga menziesii*)	12	20	60%	60%	Fair	Moderate	X	-
	Comments:								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
334	Deodar cedar (*Cedrus deodara*)	7	20	60%	70%	Fair	Moderate	-	2
	Comments: Sparse canopy.								
334a	Aleppo pine (*Pinus halapensis*)	7	20	70%	70%	Good	Moderate	-	2
	Comments: Added tree.								
334b	Eastern redbud (*Cercis canadensis*)	7	20	40%	50%	Poor	Low	-	3
	Comments: Added tree. Located above #341. Canopy is sparse and has substantial deadwood.								
335	Deodar cedar (*Cedrus deodara*)	5	15	60%	70%	Fair	Moderate	-	3
	Comments: Sparse canopy.								
336	Deodar cedar (*Cedrus deodara*)	6	15	60%	70%	Fair	Moderate	-	3
	Comments: Sparse canopy.								
337	Deodar cedar (*Cedrus deodara*)	6, 6	15	80%	50%	Fair	Moderate	-	2
	Comments:								
338	Italian stone pine (*Pinus pinea*)	7	15	90%	80%	Good	Moderate	-	3
	Comments:								
339	Aleppo pine (*Pinus halapensis*)	8	20	60%	70%	Fair	Moderate	-	4
	Comments: Sparse canopy.								

TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
340	incense cedar (*Calocedrus decurrens*)	4	10	80%	70%	Good	Moderate	-	3
	Comments: Possible relocation.								
341	coast redwood (*Sequoia sempervirens*)	26, 12, 12	50	50%	80%	Fair	High	-	1
	Comments:								
343	American sweetgum (*Liquidambar styraciflua*)	11	25	75%	40%	Fair	Moderate	-	3
	Comments: Codominant stems with included bark.								
344	coast live oak (*Quercus agrifolia*)	23	50	80%	60%	Good	High	-	3
	Comments:								
345	crape myrtle (*Lagerstroemia indica*)	12, 5, 4	35	70%	60%	Fair	Moderate	-	3
	Comments: Grows partially beneath #344.								
351	hawthorn (*Crataegus* sp.)	6	15	40%	40%	Poor	Low	-	1
	Comments: Severe trunk decay and sparse canopy.								
352	hawthorn (*Crataegus* sp.)	7	15	60%	50%	Fair	Moderate	-	1
	Comments:								
400	Deodar cedar (*Cedrus deodara*)	11	15	80%	70%	Good	High	-	3
	Comments: Narrow canopy.								
401	Deodar cedar (*Cedrus deodara*)	15	-	0%	0%	Dead	Low	-	4
	Comments: Remove now - dead.								

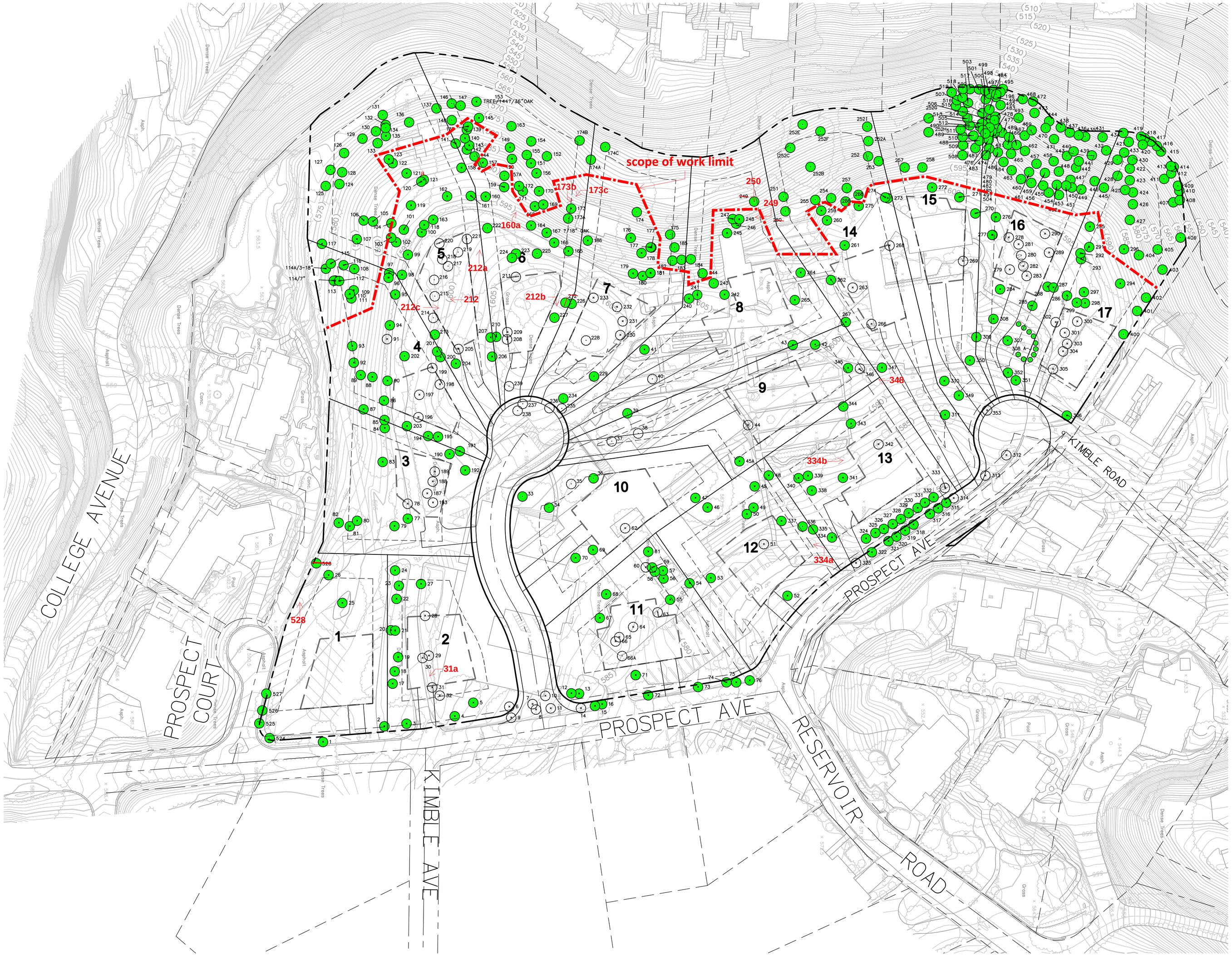
TREE INVENTORY TABLE

TREE/ TAG NO.	TREE NAME	TREE SIZE		TREE CONDITION			Suitability for Preservation (Good/Moderate/Low)	Removal Required for Proposed Development	Potential Impacts (1=Highest, 5=Lowest)
		Trunk Diameter (in.)	Canopy Spread (ft.)	Health Condition (100%=Best, 0%=Worst)	Structural Integrity (100%=Best, 0%=Worst)	Overall Condition (Good/Fair/Poor/Dead)			
402	Deodar cedar (*Cedrus deodara*)	14	20	20%	40%	Poor	Low	-	5
	Comments: Nearly dead and beyond recovery.								
525	Aleppo pine (*Pinus halapensis*)	12	25	30%	50%	Poor	Low	-	4
	Comments: Very sparse canopy.								
526	Myoporum (*Myoporum laetum*)	6, 5, 4, 3, 2	20	40%	40%	Poor	Low	-	4
	Comments:								
527	Myoporum (*Myoporum laetum*)	8	20	20%	40%	Poor	Low	-	4
	Comments: Extremely sparse canopy (from thrips).								
528	American arborvitae (*Thuja occidentalis*)	17	15	80%	50%	Fair	Moderate	-	4
	Comments: Location on map is incorrect - see map in this report. Multi-trunk.								

EXHIBIT B:

SITE MAP

(one sheet)



LEGEND

- LOT LINE
- SETBACK LINE
- CONCEPTUAL BUILDING FOOTPRINTS ONLY 2,800 - 4,800 SF
  SPECIFIC BUILDING LOCATIONS TO BE DETERMINED SUBJECT TO TOWN OF LOS GATOS DESIGN REGULATIONS AND FUTURE ARCHITECTURE & SITE APPLICATION, REVIEW, AND APPROVAL PROCESS
- PROPERTY LINE
- RIGHT OF WAY LINE
- EXISTING RIGHT OF WAY LINE
- STREET CENTERLINE
- EXISTING TREE (WITH CORRESPONDING NUMBER) TO POTENTIALLY REMAIN
- EXISTING TREE (WITH CORRESPONDING NUMBER) TO POTENTIALLY BE REMOVED

TOTAL TREES:	505
TOTAL TREES PRESERVED:	422
TOTAL POTENTIAL TREE REMOVAL:	
DEMOLITION:	4
WITHIN STREETS:	14
WITHIN CONCEPTUAL BUILDING FOOTPRINTS:	65

NOTE:

TREES ON INDIVIDUAL LOTS SHOWN FOR POTENTIAL REMOVAL ARE CONCEPTUAL ONLY. SPECIFIC TREES TO BE PRESERVED, REMOVED, OR TRANSPLANTED TO BE DETERMINED FOR EACH LOT WITH FUTURE ARCHITECTURAL & SITE APPLICATION, REVIEW, AND APPROVAL PROCESS.

SCALE: 1"=50'

50 25 0 50 100 150

SCALE: 1"=50'

REGISTERED PROFESSIONAL ENGINEER
JENNIFER A. HARMON
No. C 63909
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

THESE PLANS WERE PREPARED UNDER MY SUPERVISION

JENNIFER A. HARMON R.C.E. #63909

JOB NO.: 132531
DATE: 05-10-13
DRAWN BY: J. MILLER
DESIGNED BY: J. HARMON

RBF CONSULTING
A Baker Company
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925.906.1460 • FAX 925.906.1465 • www.RBF.com

TOWN OF LOS GATOS
VESTING TENTATIVE TRACT MAP
SISTERS OF THE HOLY NAMES

CONCEPTUAL TREE PRESERVATION AND REMOVAL PLAN

SHEET 6 OF 9 SHTS.

APPENDIX C

LIST OF SPECIAL-STATUS PLANT AND ANIMAL SPECIES

Special-status Plants Evaluated For 100 Prospect Avenue

Jul 9, 2013

Wood Biological Consulting

FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Asteraceae - Sunflower Family				
Balsamorhiza macrolepis big-scale balsamroot	Federal: none State: none CNPS: 1B.2 G2/S2 Other: DFG: SP	Occurs in cismontane woodland, chaparral, valley and foothill grassland Substrate: sometimes serpentinite. Recorded from Alameda, Butte, Colusa, El Dorado, Lake, Mariposa, Napa, Placer, Santa Clara, Solano, Sonoma, Tehama, Tuolumne.	Mar-Jun Perennial Herb	Not expected: marginally suitable habitat present. Habitat is disturbed.
Centromadia parryi ssp. *congdonii* Congdon's tarplant	Federal: none State: none CNPS: 1B.2 G4T2/S2 Other: DFG: SP	Occurs in valley and foothill grassland. Substrate: alkaline. Recorded from Alameda, Contra Costa, Monterey, San Luis Obispo, San Mateo, Santa Clara, Santa Cruz, Solano. Additional distribution: presumed extirpated in Santa Cruz and Solano counties.	May-Nov Annual Herb	None: no suitable habitat present.
Cirsium fontinale var. *campylon* Mt. Hamilton thistle	Federal: none State: none CNPS: 1B.2 G2T2/S2 Other: DFG: SP	Occurs in chaparral, cismontane woodland, foothill woodland, valley and foothill grassland Substrate: serpentine. Recorded from Alameda, Santa Clara, Stanislaus.	Feb-Oct Perennial Herb	None: no suitable habitat present.
Holocarpha macradenia Santa Cruz tarplant	Federal: FT State: SE CNPS: 1B.1 G1/S1 Other: DFG: SP	Occurs in coastal prairie, coastal scrub, valley and foothill grassland. Substrate: often clay, sandy. Recorded from Alameda, Contra Costa, Marin, Monterey, Santa Cruz, Solano. Additional distribution: presumed extirpated in Alameda, Contra Costa, and Marin counties.	Jun-Oct Annual Herb	None: no suitable habitat present.
Lasthenia conjugens Contra Costa goldfields	Federal: FE State: none CNPS: 1B.1 G1/S1 Other: DFG: SP	Occurs in cismontane woodland, playas (alkaline), valley and foothill grassland, vernal pools Moisture: mesic. Recorded from Alameda, Contra Costa, Marin, Mendocino, Monterey, Napa, Santa Barbara, Santa Clara, Solano, Sonoma. Additional distribution: presumed extirpated in Mendocino, Santa Barbara and Santa Clara counties.	Mar-Jun Annual Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

Wood Biological Consulting

FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Lessingia hololeuca woolly-headed lessingia	Federal: none State: none CNPS: 3 G3/S3 Other: DFG: SP	Occurs in broadleafed upland forest, coastal scrub, lower montane coniferous forest, valley and foothill grassland Substrate: serpentinite, clay. Recorded from Alameda, Marin, Monterey, Napa, San Mateo, Santa Clara, Solano, Sonoma, Yolo.	Jun-Oct Annual Herb	None: no suitable habitat present.
Lessingia micradenia var. *micradenia* Tamalpais lessingia	Federal: none State: none CNPS: 1B.2 Other: DFG: SP	Occurs in chaparral, valley and foothill grassland Substrate: usually serpentinite, Habitats Note: often roadsides. Recorded from Marin. Additional distribution: known only from four occurrences in the Mt. Tamalpais area.	Jun-Oct Annual Herb	None: no suitable habitat present.
Micropus amphibolus Mt. Diablo cottonweed	Federal: none State: none CNPS: 3.2 G3/S3.2? Other: DFG: SP	Occurs in broadleafed upland forest, chaparral, cismontane woodland, valley and foothill grassland Substrate: rocky. Recorded from Alameda, Colusa, Contra Costa, Lake, Marin, Monterey, Napa, San Joaquin, San Luis Obispo, Santa Barbara, Santa Clara, Santa Cruz, Solano, Sonoma.	Mar-May Annual Herb	None: no suitable habitat present.
Microseris paludosa marsh microseris	Federal: none State: none CNPS: 1B.2 G2/S2.2 Other: DFG: SP	Occurs in closed-cone coniferous forest, cismontane woodland, coastal scrub, valley and foothill grassland. Recorded from Marin, Mendocino, Monterey, San Benito, San Francisco, San Luis Obispo, San Mateo, Santa Cruz, Sonoma; presumed extirpated in San Francisco and San Mateo counties.	Apr-Jul Perennial Herb	None: no suitable habitat present.
Monolopia gracilens woodland woollythreads	Federal: none State: none CNPS: 1B.2 G2G3/S2 Other:	Occurs in broadleafed upland forest (openings), chaparral (openings), cismontane woodland, North Coast coniferous forest (openings), valley and foothill grassland. Substrate: serpentinite. Recorded from Alameda, Contra Costa, Monterey, San Luis Obispo, San Mateo, Santa Clara, Santa Cruz.	Feb-Jul Annual Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

Wood Biological Consulting

FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Pentachaeta bellidiflora white-rayed pentachaeta	Federal: FE State: SE CNPS: 1B.1 G1/S1 Other: DFG: SP	Occurs in valley and foothill grassland, cismontane woodland Substrate: often on serpentinite. Recorded from Marin, San Mateo, Santa Cruz. Additional distribution: known from fewer than 20 occurrences, presumed extirpated from Marin Co.	Mar-May Annual Herb	None: no suitable habitat present.
Senecio aphanactis rayless ragwort	Federal: none State: none CNPS: 2B.2 G3?/S2 Other: DFG: SP	Occurs in chaparral, cismontane woodland, coastal scrub. Substrate: sometimes alkaline. Recorded from Alameda, Contra Costa, Fresno, Los Angeles, Merced, Monterey, Orange, Riverside, San Diego, San Luis Obispo, Santa Barbara, Santa Clara, Solano, Ventura.Santa Catalina Island, Santa Cruz Island, Santa Rosa Island.Also recorded from Baja California.	Jan-Apr Annual Herb	Not expected: marginally suitable habitat present. Habitat is disturbed.
Boraginaceae - Borage Family				
Amsinckia lunaris bent-flowered fiddleneck	Federal: none State: none CNPS: 1B.2 G2?/S2? Other: DFG: SP	Occurs in coastal bluff scrub, cismontane woodland, valley and foothill grassland. Recorded from Alameda, Colusa, Contra Costa, Lake, Marin, Napa, San Benito, San Mateo, Santa Clara, Santa Cruz, Sonoma, Yolo.	Mar-Jun Annual Herb	Not expected: marginally suitable habitat present. Habitat is disturbed.
Plagiobothrys chorisianus var. *chorisianus* Choris's popcorn-flower	Federal: none State: none CNPS: 1B.2 G3T2Q/S Other: DFG: SP	Occurs in chaparral, coastal prairie, coastal scrub, northern coastal scrub Moisture: moist. Recorded from Alameda, San Francisco, San Mateo, Santa Cruz.	Mar-Jun Annual Herb	None: no suitable habitat present.
Plagiobothrys diffusus San Francisco popcorn-flower	Federal: none State: SE CNPS: 1B.1 G1Q/S1 Other: DFG: SP	Occurs in coastal prairie, valley and foothill grassland. Recorded from Alameda, San Francisco, San Mateo, Santa Cruz. Additional distribution: presumed extirpated in San Francisco County.	Mar-Jun Annual Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

Wood Biological Consulting

FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Plagiobothrys glaber hairless popcorn-flower	Federal: none State: none CNPS: 1A GH/SH Other: DFG: SP	Occurs in meadows, seeps (alkaline), marshes and swamps (coastal salt). Substrate: alkaline. Recorded from Alameda, Marin, San Benito, Santa Clara. Additional distribution: presumed extinct.	Mar-May Annual Herb	None: no suitable habitat present.
Brassicaceae - Mustard Family				
Arabis blepharophylla coast rock cress	Federal: none State: none CNPS: 4.3 G3/S3.3? Other: DFG: SP	Occurs in broadleafed upland forest, coastal bluff scrub, coastal prairie, coastal scrub, mixed evergreen forest, northern coastal scrub. Recorded from Contra Costa, Marin, Monterey, San Francisco, San Mateo, Santa Cruz, Sonoma.	Feb-May Perennial Herb	None: no suitable habitat present.
Erysimum teretifolium Santa Cruz wallflower	Federal: FE State: SE CNPS: 1B.1 G2/S2 Other: DFG: SP	Occurs in chaparral, lower montane coniferous forest, yellow pine forest Habitats Note: sandy. Recorded from Santa Cruz.	Mar-Jul Perennial Herb	None: no suitable habitat present.
Streptanthus albidus ssp. *albidus* Metcalf Canyon jewel-flower	Federal: FE State: none CNPS: 1B.1 G2T1/S1 Other: DFG: SP	Occurs in valley and foothill grassland Substrate: serpentinite. Recorded from Santa Clara.	Apr-Jul Annual Herb	None: no suitable habitat present.
Streptanthus albidus ssp. *peramoenus* most beautiful jewel-flower	Federal: none State: none CNPS: 1B.2 G2T2/S2. Other: DFG: SP	Occurs in chaparral, cismontane woodland, valley and foothill grassland. Substrate: serpentinite. Recorded from Alameda, Contra Costa, Monterey, Santa Clara, San Luis Obispo.	Mar-Oct Annual Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

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FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Tropidocarpum capparideum caper-fruited tropidocarpum	Federal: none State: none CNPS: 1B.1 G1/S1.1 Other: DFG: SP	Occurs in valley and foothill grassland (alkaline hills). Substrate: alkaline. Recorded from Alameda, Contra Costa, Glenn, Monterey, San Joaquin, San Luis Obispo, Santa Clara. Additional distribution: Rediscovered in 2000 on Ft. Hunter Liggett. Presumed extirpated in Alameda, Contra Costa, Glenn, Santa Clara and San Joaquin counties.	Mar-Apr Annual Herb	None: no suitable habitat present.
Bryaceae				
Anomobryum julaceum slender silver-moss	Federal: none State: none CNPS: 2B.2 G4G5/S2 Other: DFG: SP	Occurs in broadleafed upland forest, lower montane coniferous forest, North Coast coniferous forest. Moisture: damp soil and rock on outcrops, Habitats Note: usually on roadcuts. Recorded from Butte, Contra Costa, Humboldt, Los Angeles, Mariposa, Santa Barbara, Santa Cruz, Shasta, Sonoma.Also recorded from Oregon.	n/a Moss	None: no suitable habitat present.
Campanulaceae - Bellflower Family				
Campanula californica swamp harebell	Federal: none State: none CNPS: 1B.2 G3/S3 Other: DFG: SP	Occurs in bogs and fens, closed-cone coniferous forest, closed-cone pine forest, coastal prairie, freshwater marsh, marshes and swamps, meadows, North Coast coniferous forest. Moisture: moist. Recorded from Marin, Mendocino, Santa Cruz, Sonoma.	Jun-Oct Perennial Herb (rhizomatous)	None: no suitable habitat present.
Caryophyllaceae - Pink Family				
Arenaria paludicola marsh sandwort	Federal: FE State: SE CNPS: 1B.1 G1/S1 Other: DFG: SP	Occurs in bogs and fens, freshwater marsh, marshes and swamps. Recorded from Los Angeles, Mendocino, San Bernardino, San Francisco, San Luis Obispo, Santa Cruz.Also recorded from Washington.	May-Aug Perennial Herb (stoloniferous)	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

Wood Biological Consulting

FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Silene verecunda ssp. *verecunda* San Francisco campion	Federal: none State: none CNPS: 1B.2 G5T2/S2. Other: DFG: SP	Occurs in chaparral, coastal bluff scrub, coastal prairie, coastal scrub, northern coastal scrub, valley and foothill grassland. Recorded from San Francisco, San Mateo, Santa Cruz.	Mar-Aug Perennial Herb	None: no suitable habitat present.
Convolvulaceae - Morning-glory Family				
Calystegia collina ssp. *venusta* South Coast Range morning-glory	Federal: none State: none CNPS: 4.3 G4T3/S3. Other: DFG: SP	Occurs in chaparral, cismontane woodland, foothill woodland, valley and foothill grassland Substrate: serpentine sedimentary. Recorded from Fresno, Monterey, San Benito, Santa Barbara, Santa Clara.	Apr-Jun Perennial Herb (rhizomatous)	None: no suitable habitat present.
Crassulaceae - Stonecrop Family				
Dudleya abramsii ssp. *setchellii* Santa Clara Valley dudleya	Federal: FE State: none CNPS: 1B.1 G3T2/S2 Other: DFG: SP	Occurs in cismontane woodland, valley and foothill grassland. Substrate: serpentinite, rocky. Recorded from Santa Clara.	Apr-Jun Perennial Herb	None: no suitable habitat present.
Cupressaceae - Cypress Family				
Hesperocyparis abramsiana var. *abramsiana* Santa Cruz cypress	Federal: FE State: SE CNPS: 1B.2 G1T1/S1. Other: DFG: SP	Occurs in chaparral, closed-cone coniferous forest, closed-cone pine forest, lower montane coniferous forest Substrate: granitic sedimentary sandstone. Recorded from San Mateo, Santa Cruz.	n/a Tree (evergreen)	None: no suitable habitat present. Would have been detectable during present survey.

Special-status Plants Evaluated For 100 Prospect Avenue

Wood Biological Consulting

FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Cyperaceae - Sedge Family				
Carex comosa bristly sedge	Federal: none State: none CNPS: 2B.1 G5/S2 Other: DFG: SP	Occurs in coastal prairie, freshwater marsh, marshes and swamps, valley and foothill grassland. Recorded from Contra Costa, Lake, Mendocino, San Bernardino, San Francisco, San Joaquin, Santa Cruz, Shasta, Sonoma.Also recorded from Idaho, Oregon, Washington.	May-Sep Perennial Herb (rhizomatous)	None: no suitable habitat present.
Carex saliniformis deceiving sedge	Federal: none State: none CNPS: 1B.2 G2/S2.2 Other: DFG: SP	Occurs in coastal prairie, coastal scrub, marshes and swamps, meadows, northern coastal scrub. Recorded from Humboldt, Mendocino, Santa Cruz, Sonoma.	June Perennial Herb (rhizomatous)	None: no suitable habitat present.
Ericaceae - Heath Family				
Arctostaphylos andersonii Anderson's manzanita	Federal: none State: none CNPS: 1B.2 G2/S2? Other: DFG: SP	Occurs in broadleafed upland forest, chaparral, mixed evergreen forest, North Coast coniferous forest, redwood forest. Recorded from San Mateo, Santa Clara, Santa Cruz.	Nov-Apr Shrub (evergreen)	None: no suitable habitat present. Would have been detectable during present survey.
Arctostaphylos silvicola Bonny Doon manzanita	Federal: none State: none CNPS: 1B.2 G2/S2.1 Other: DFG: SP	Occurs in chaparral, closed-cone coniferous forest, closed-cone pine forest, lower montane coniferous forest, yellow pine forest Habitats Note: sandy. Recorded from Santa Cruz.	Feb-Mar Shrub (evergreen)	None: no suitable habitat present. Would have been detectable during present survey.
Fabaceae - Legume Family				
Hoita strobilina Loma Prieta hoita	Federal: none State: none CNPS: 1B.1 G2/S2 Other: DFG: SP	Occurs in chaparral, cismontane woodland, riparian woodland Moisture: mesic,Substrate: usually serpentinite, Recorded from Contra Costa, Santa Clara, Santa Cruz, Alameda. Additional distribution: presumed extirpated from Alameda County.	May-Oct Perennial Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

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FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Trifolium buckwestiorum Santa Cruz clover	Federal: none State: none CNPS: 1B.1 G2/S2 Other: DFG: SP	Occurs in broadleafed upland forest, cismontane woodland, coastal prairie, mixed evergreen forest. Recorded from Monterey, Santa Cruz, Sonoma.	Apr-Oct Annual Herb	None: no suitable habitat present.
Trifolium hydrophilum saline clover	Federal: none State: none CNPS: 1B.2 G2/S2 Other: DFG: SP	Occurs in marshes and swamps, valley and foothill grassland (mesic, alkaline), vernal pools. Recorded from Alameda, Colusa, Monterey, Napa, San Benito, San Luis Obispo, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma. Additional distribution: questionable in Colusa County.	Apr-Jun Annual Herb	None: no suitable habitat present.
Fissidentaceae				
Fissidens pauperculus minute pocket-moss	Federal: none State: none CNPS: 1B.2 G3?/S1 Other: DFG: SP	Occurs in North Coast coniferous forest. Moisture: damp,Substrate: soils, Recorded from Butte, Humboldt, Marin, Mendocino, Santa Cruz.	n/a Moss	None: no suitable habitat present.
Geraniaceae - Geranium Family				
California macrophylla round-leaved filaree	Federal: none State: none CNPS: 1B.1 G2/S2 Other: DFG: SP	Occurs in cismontane woodland, valley and foothill grassland Substrate: clay. Recorded from Alameda, Butte, Colusa, Contra Costa, Fresno, Glenn, Kern, Kings, Lake, Lassen, Los Angeles, Merced, Monterey, Napa, Riverside, San Benito, San Diego, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Solano, Sonoma, Stanislaus, Tehama, Ventura, Yolo.Santa Cruz Island.Also recorded from Baja California, Oregon, Utah.	Mar-May Annual Herb	Not expected: marginally suitable habitat present. Habitat is disturbed.

Special-status Plants Evaluated For 100 Prospect Avenue

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FAMILY
Scientific Name
Common Name

Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Hypnaceae			
Dacryophyllum falcifolium tear drop moss Federal: none State: none CNPS: 1B.3 G1/S1 Other:	Occurs in North Coast coniferous forest. Substrate: carbonate. Recorded from Monterey, Santa Cruz.	Moss	None: no suitable habitat present.
Iridaceae - Iris Family			
Iris longipetala coast iris Federal: none State: none CNPS: 4.2 G3/S3.2 Other:	Occurs in coastal prairie, lower montane coniferous forest, meadows, seeps Moisture: mesic. Recorded from Alameda, Contra Costa, Humboldt, Marin, Mendocino, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Solano, Sonoma.	Mar-May Perennial Herb (rhizomatous)	None: no suitable habitat present.
Lamiaceae - Mint Family			
Monardella undulata curly-leaved monardella Federal: none State: none CNPS: 4.2 G3/S3.2 Other: DFG: SP	Occurs in chaparral, closed-cone coniferous forest, coastal dunes, coastal prairie, coastal sage scrub, coastal scrub, coastal strand, lower montane coniferous forest, northern coastal scrub, yellow pine forest. Substrate: sandy. Recorded from Marin, Monterey, San Francisco, San Luis Obispo, San Mateo, Santa Barbara, Santa Cruz, Sonoma.	May-Sep Annual Herb	None: no suitable habitat present.
Liliaceae - Lily Family			
Fritillaria liliacea fragrant fritillary Federal: none State: none CNPS: 1B.2 G2/S2 Other: DFG: SP	Occurs in cismontane woodland, coastal prairie, coastal scrub, valley and foothill grassland Substrate: often serpentinite. Recorded from Alameda, Contra Costa, Marin, Monterey, San Benito, San Francisco, San Mateo, Santa Clara, Solano, Sonoma.	Feb-Apr Perennial Herb (bulbiferous)	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

Wood Biological Consulting

FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Malvaceae - Mallow Family				
Malacothamnus aboriginum Indian Valley bush-mallow	Federal: none State: none CNPS: 1B.2 Other: DFG: SP	Occurs in chaparral, cismontane woodland, foothill woodland Habitats Note: rocky. Recorded from Fresno, Monterey, San Benito, Kings, Santa Clara, San Mateo.	Apr-Oct Shrub (deciduous)	None: no suitable habitat present. Would have been detectable during present survey.
Malacothamnus arcuatus arcuate bush-mallow	Federal: none State: none CNPS: 1B.2 G2Q/S2. Other: DFG: SP	Occurs in chaparral. Recorded from San Mateo, Santa Clara, Santa Cruz.	Apr-Sep Shrub (evergreen)	None: marginally suitable habitat present. Would have been detectable during present survey.
Malacothamnus hallii Hall's bush-mallow	Federal: none State: none CNPS: 1B.2 G2Q/S2 Other: DFG: SP	Occurs in chaparral, coastal scrub. Recorded from Contra Costa, Mendocino, Merced, San Mateo, Santa Clara, Stanislaus, Lake.	May-Oct Shrub (evergreen)	None: no suitable habitat present. Would have been detectable during present survey.
Sidalcea malachroides maple-leaved checkerbloom	Federal: none State: none CNPS: 4.2 G3G4/S3 Other: DFG: SP	Occurs in broadleafed upland forest, coastal prairie, coastal scrub, mixed evergreen forest, North Coast coniferous forest, redwood forest. Recorded from Del Norte, Humboldt, Mendocino, Monterey, Santa Clara, Santa Cruz, Sonoma.Also recorded from Oregon.	Apr-Aug Perennial Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

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FAMILY
Scientific Name
Common Name

Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Montiaceae - Montia Family			
Calandrinia breweri Brewer's calandrinia Federal: none State: none CNPS: 4.2 G4/S3.2? Other: DFG: SP	Occurs in chaparral, coastal scrub Substrate: sandy or loamy, Habitats Note: disturbed sites and burns. Recorded from Contra Costa, Los Angeles, Marin, Mariposa, Mendocino, Monterey, Napa, San Bernardino, San Diego, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Sonoma, Ventura. Santa Cruz Island, Santa Rosa Island. Also recorded from Baja California.	Mar-Jun Annual Herb	Not expected: marginally suitable habitat present. Could appear after fire.
Onagraceae - Evening Primrose Family			
Clarkia breweri Brewer's clarkia Federal: none State: none CNPS: 4.2 G3/S3.2 Other: DFG: SP	Occurs in chaparral, cismontane woodland, coastal scrub, foothill woodland, northern coastal scrub Substrate: serpentine. Recorded from Alameda, Fresno, Merced, Monterey, San Benito, Santa Clara, Stanislaus.	Apr-May Annual Herb	None: no suitable habitat present.
Clarkia concinna ssp. *automixa* Santa Clara red ribbons Federal: none State: none CNPS: 4.3 G5?T3/S Other: DFG: SP	Occurs in chaparral, cismontane woodland. Recorded from Alameda, Santa Clara.	Apr-Jul Annual Herb	Not expected: no suitable habitat present.
Orchidaceae - Orchid Family			
Piperia candida white-flowered rein orchid Federal: none State: none CNPS: 1B.2 G3?/S2 Other: DFG: SP	Occurs in broadleafed upland forest, lower montane coniferous forest, North Coast coniferous forest, yellow pine forest. Substrate: serpentine. Recorded from Del Norte, Humboldt, Mendocino, San Mateo, Santa Cruz, Siskiyou, Sonoma, Trinity.Also recorded from Oregon, Washington.	May-Sep Perennial Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

Wood Biological Consulting

FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Plantaginaceae - Plantain Family				
Collinsia multicolor San Francisco collinsia	Federal: none State: none CNPS: 1B.2 G2/S2.2 Other: DFG: SP	Occurs in closed-cone coniferous forest, coastal scrub Substrate: sometimes serpentinite. Recorded from Marin, Monterey, San Francisco, San Mateo, Santa Clara, Santa Cruz.	Mar-May Annual Herb	None: no suitable habitat present.
Penstemon rattanii var. *kleei* Santa Cruz Mountains beardtongue	Federal: none State: none CNPS: 1B.2 G4T2/S2. Other: DFG: SP	Occurs in chaparral, lower montane coniferous forest, North Coast coniferous forest, yellow pine forest. Recorded from Santa Clara, Santa Cruz.	May-Jun Perennial Herb	None: no suitable habitat present.
Polemoniaceae - Phlox Family				
Leptosiphon acicularis bristly linanthus	Federal: none State: none CNPS: 4.2 G3/S3.2 Other: DFG: SP	Occurs in chaparral, cismontane woodland, coastal prairie, valley and foothill grassland. Recorded from Alameda, Butte, Contra Costa, Fresno, Humboldt, Lake, Marin, Mendocino, Napa, San Mateo, Santa Clara, Sonoma. Additional distribution: questionable in Contra Costa County.	Apr-Jul Annual Herb	Not expected: marginally suitable habitat present. Habitat is disturbed.
Leptosiphon ambiguus serpentine linanthus	Federal: none State: none CNPS: 4.2 G3/S3.2 Other: DFG: SP	Occurs in cismontane woodland, coastal scrub, foothill woodland, northern coastal scrub, valley and foothill grassland. Substrate: usually serpentinite. Recorded from Alameda, Contra Costa, Merced, San Benito, San Joaquin, San Mateo, Santa Clara, Santa Cruz, Stanislaus.	Mar-Jun Annual Herb	None: no suitable habitat present.
Leptosiphon grandiflorus large-flowered linanthus	Federal: none State: none CNPS: 4.2 G3/S3.2 Other: DFG: SP	Occurs in coastal bluff scrub, closed-cone coniferous forest, cismontane woodland, coastal dunes, coastal prairie, coastal scrub, valley and foothill grassland Substrate: usually sandy. Recorded from Alameda, Kern, Madera, Marin, Merced, Monterey, San Francisco, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Sonoma; presumed extirpated in Santa Barbara County.	Apr-Aug Annual Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

Wood Biological Consulting

FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Polygonaceae - Buckwheat Family				
Chorizanthe pungens var. *hartwegiana* Ben Lomond spineflower	Federal: FE State: none CNPS: 1B.1 G2T1?S2 Other: DFG: SP	Occurs in lower montane coniferous forest, yellow pine forest Habitats Note: sandy. Recorded from Santa Cruz.	Apr-Jul Annual Herb	None: no suitable habitat present.
Chorizanthe pungens var. *pungens* Monterey spineflower	Federal: FT State: none CNPS: 1B.2 G2T1/S2 Other: DFG: SP	Occurs in chaparral, cismontane woodland, coastal dunes, coastal sage scrub, coastal scrub, foothill woodland, northern coastal scrub, valley and foothill grassland Habitats Note: sandy. Recorded from Monterey, San Luis Obispo, Santa Cruz.	Apr-Jun Annual Herb	None: no suitable habitat present.
Chorizanthe robusta var. *hartwegii* Scotts Valley spineflower	Federal: FE State: none CNPS: 1B.1 G2T1/S1 Other: DFG: SP	Occurs in meadows, seeps, valley and foothill grassland. Substrate: sandy, mudstone, Purisima outcrops. Recorded from Santa Cruz.	Apr-Jul Annual Herb	None: no suitable habitat present.
Chorizanthe robusta var. *robusta* robust spineflower	Federal: FE State: none CNPS: 1B.1 Other: DFG: SP	Occurs in chaparral (maritime), cismontane woodland (openings), coastal dunes, coastal scrub Substrate: sandy, gravelly. Recorded from Alameda, Marin, Monterey, San Francisco, San Mateo, Santa Clara, Santa Cruz. Additional distribution: presumed extirpated in Alameda, Santa Clara and San Mateo counties; questionable in Marin..	Apr-Sep Annual Herb	Not expected: marginally suitable habitat present. Habitat is disturbed.
Eriogonum nudum var. *decurrens* Ben Lomond buckwheat	Federal: none State: none CNPS: 1B.1 G5T2/S2. Other: DFG: SP	Occurs in chaparral, cismontane woodland, foothill woodland, lower montane coniferous forest, yellow pine forest Habitats Note: sandy. Recorded from Alameda, Santa Cruz.	Jun-Oct Perennial Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

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FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Polygonum hickmanii Scotts Valley polygonum	Federal: FE State: SE CNPS: 1B.1 G1/S1 Other: DFG: SP	Occurs in valley and foothill grassland. Substrate: mudstone and sandstone. Recorded from Santa Cruz. Additional distribution: known from only two occurrences in Scotts Valley.	May-Aug Annual Herb	None: no suitable habitat present.
Portulacaceae - Purslane Family				
Calyptridium parryi var. *hesseae* Santa Cruz Mountains pussypaws	Federal: none State: none CNPS: 1B.1 G3G4T2/ Other: DFG: SP	Occurs in chaparral, cismontane woodland, foothill woodland. Substrate: sandy or gravelly, Habitats Note: openings. Recorded from Monterey, San Luis Obispo, Santa Clara, Santa Cruz, Stanislaus.	May-Aug Annual Herb	None: no suitable substrate present.
Pottiaceae				
Didymodon norrisii Norris' beard-moss	Federal: none State: none CNPS: 2B.2 G3G4/S3 Other: DFG: SP	Occurs in cismontane woodland, lower montane coniferous forest. Moisture: intermittently mesic,Substrate: rock, Recorded from Butte, Colusa, Contra Costa, Humboldt, Lake, Los Angeles, Madera, Mariposa, Monterey, Nevada, Plumas, San Benito, Santa Cruz, Shasta, Sierra, Sonoma, Tehama, Tulare, Tuolumne.Also recorded from Oregon.	n/a Moss	None: no suitable habitat present.
Primulaceae - Primrose Family				
Androsace elongata ssp. *acuta* California androsace	Federal: none State: none CNPS: 4.2 G5?T3T4 Other: DFG: SP	Occurs in chaparral, cismontane woodland, coastal scrub, meadows, seeps, pinyon and juniper woodland, valley and foothill grassland Moisture: dry. Recorded from Alameda, Colusa, Contra Costa, Fresno, Glenn, Kern, Los Angeles, Merced, Riverside, San Benito, San Bernardino, San Diego, San Joaquin, San Luis Obispo, San Mateo, Santa Clara, Siskiyou, Stanislaus, Tehama.Also recorded from Oregon, Baja California.	Mar-Jun Annual Herb	None: no suitable habitat present.

Special-status Plants Evaluated For 100 Prospect Avenue

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Ranunculaceae - Buttercup Family				
Ranunculus lobbii Lobb's aquatic buttercup	Federal: none State: none CNPS: 4.2 G4/S3.2 Other: DFG: SP	Occurs in cismontane woodland, North Coast coniferous forest, valley and foothill grassland, vernal pools Moisture: mesic. Recorded from Alameda, Contra Costa, Marin, Mendocino, Napa, Solano, Sonoma, Santa Cruz, San Mateo.Also recorded from Oregon.	Feb-May Annual Herb, Aquatic	None: no suitable habitat present.
Rhamnaceae - Buckthorn Family				
Ceanothus ferrisiae Coyote ceanothus	Federal: FE State: none CNPS: 1B.1 G2/S2 Other: DFG: SP	Occurs in chaparral, coastal scrub, valley and foothill grassland Substrate: serpentinite. Recorded from Santa Clara.	Jan-May Shrub (evergreen)	None: no suitable habitat present.
Rosaceae - Rose Family				
Horkelia cuneata ssp. *sericea* Kellogg's horkelia	Federal: none State: none CNPS: 1B.1 G4T2/S2 Other: DFG: SP	Occurs in chaparral (maritime), closed-cone coniferous forest, coastal dunes, coastal scrub. Substrate: sandy or gravelly, Habitats Note: openings. Recorded from Alameda, Marin, Monterey, San Francisco, San Luis Obispo, San Mateo, Santa Barbara, Santa Cruz. Additional distribution: presumed extirpated in Alameda, Marin, and San Francisco counties.	Apr-Sep Perennial Herb	None: no suitable habitat present.
Horkelia marinensis Point Reyes horkelia	Federal: none State: none CNPS: 1B.2 G2/S2.2 Other: DFG: SP	Occurs in coastal dunes, coastal prairie, coastal scrub, coastal strand, northern coastal scrub. Recorded from Marin, Mendocino, San Mateo, Santa Cruz.	May-Sep Perennial Herb	None: no suitable habitat present.
Rosa pinetorum pine rose	Federal: none State: none CNPS: 1B.2 G2Q/S2. Other: DFG: SP	Occurs in closed-cone coniferous forest, red fir forest, yellow pine forest. Recorded from Monterey, San Mateo.	May-Jul Shrub	None: no suitable habitat present.

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FAMILY

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Blooming Time Life Form	Potential For Occurrence On Site
Rubiaceae - Madder Family				
Galium andrewsii ssp. *gatense* serpentine bedstraw	Federal: none State: none CNPS: 4.2 G5T3/S3. Other: DFG: SP	Occurs in chaparral, cismontane woodland, foothill woodland, lower montane coniferous forest, yellow pine forest Substrate: serpentine. Recorded from Alameda, Contra Costa, Fresno, Monterey, San Benito, San Luis Obispo, Santa Clara.	Apr-Jul Perennial Herb	None: no suitable habitat present.
Thymelaeaceae - Mezereum Family				
Dirca occidentalis western leatherwood	Federal: none State: none CNPS: 1B.2 G2G3/S2 Other: DFG: SP	Occurs in broadleafed upland forest, closed-cone coniferous forest, chaparral, cismontane woodland, North Coast coniferous forest, riparian forest, riparian woodland Moisture: mesic. Recorded from Alameda, Contra Costa, Marin, San Mateo, Santa Clara, Sonoma.	Jan-Apr Shrub (deciduous)	Not expected: marginally suitable habitat present. Would have been detectable during present survey.

Special-status Animals Evaluated For 100 Prospect Avenue

Jul 18, 2013

Wood Biological Consulting

SORTED BY CLASS

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Pelecypoda - Clams And Mussels			
Margaritifera falcata western pearlshell mussel	Federal none State none Other DFW: SA	Aquatic; perfers low velocity waters Recorded from Mendocino, Siskiyou counties. Nearest record is from Santa Cruz Co 13 mi SW of site.	None: no suitable habitat present.
Arachnida - Arachnids			
Microcina homi Hom's micro-blind harvestman	Federal none State none Other DFW: SA	known only from serpentine rocks in grassland habitats. This blind species occurs clinging to the undersides of serpentine rocks near permananent springs. Recorded from Santa Clara County. Nearest record is 7.75 mi E of site.	None: no suitable habitat present.
Malacostraca			
Calasellus californicus no common name	Federal none State none Other DFW: SA	A blind freshwater isopod measuring up to 6.2mm, with 5 setae on the inner lobe of the maxilla. Occurs in freshwater habits including wells and springs. Recorded from Lake, Napa, Santa Clara counties. Additional distribution: known from only a single collection in each county. Nearest record is 3.5 mi SW of site.	None: no suitable habitat present.
Insecta - Insects			
Adela oplerella Opler's longhorn moth	Federal none State none Other DFW: SA	All known occurrences except Santa Cruz site are from serpentine grassland. Larvae feed on Platystemon californicus. Recorded from Alameda, Marin, Santa Clara, Santa Cruz, Sonoma counties. Nearest record is 10 mi NE of site.	None: Host plants absent from site.
Cicindela ohlone Ohlone tiger beetle	Federal FE State none Other DFW: SA	Inhabits poorly-drained substrates of clay or sandy clay soil over bedrock of Santa Cruz mudstone. Found on remnant native grasslands with California oatgrass & purple needlegrass. Recorded from Santa Cruz County. Nearest record is 11 mi SW of site.	None: no suitable habitat present. Site is outside of the species' range.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Euphilotes enoptes smithi Smith's blue butterfly	Federal FE State none Other DFW: SA	Most commonly associated with coastal dunes and coastal sage scrub plant communities. Host plants are Eriogonum latifolium and Eriogonum parvifolium are utilized as both larval and adult foodplants. Recorded from Monterey, San Luis Obispo, Santa Cruz counties. Nearest record is 13 mi SW of site. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Host plants absent from site.
Euphydryas editha bayensis bay checkerspot butterfly	Federal FT State none Other DFW: SA Xerces: C	Inhabits native grasslands on outcrops of serpentine soil. The primary host plant is Plantago erecta. Secondary host plants include Orthocarpus densiflorus and O. purpurscens. Recorded from Alameda, San Francisco, San Mateo, Santa Clara counties. Additional distribution: occurs in the vicinity of the San Francisco Bay. Nearest record is 8.4 mi SW of site. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Primary and secondary host plants absent from site
Philanthus nasalis Antioch specid wasp	Federal none State none Other DFW: SA	Associated with sand dunes. Previously known only from the Antioch Dunes. Now known only from inland sandhills of Santa Cruz County. Found on flowers of Eriogonum nudum decurrens, Gnaphalium beneolens, G. "Zayateense", Ericameria. Recorded from Contra Costa, Santa Cruz counties. Nearest record is 9.5 mi SW of site.	None: no suitable habitat present.
Polyphylla barbata Mount Hermon June beetle	Federal FE State none Other DFW: SA	Restricted to sand parkland, deciduous/mixed coniferous forest and Sand Hills srub. Recorded among Ponderosa pine, silverleaf manzanita, bracken fern, grasses, and annuals including wallflower. Recorded from Santa Cruz County. Additional distribution: known only from sand hills at Mt. Hermon (type locality). Nearest record is 12-14 mi SW of site.	None: no suitable habitat present. Site is outside of the species' range.
Trimerotropis infantilis Zayante band-winged grasshopper	Federal FE State none Other DFW: SA	Restricted to sand parkland habitat found on ridges and hills within the Zayante San Hills ecosystem. Recorded from Santa Cruz County. Nearest record is 12-13 mi SW of site. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Site is outside of the species' range.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Actinopterygii - Ray-finned Fishes			
Eucyclogobius newberryi tidewater goby	Federal FE State none Other AFS: E DFW: SSC	Found in shallow coastal lagoons and brackish bays at mouth of freshwater streams. Requires fairly still but not stagnant water and high oxygen levels. Tolerates a wide variation in salinity (1-28 ppt.) and temperature (9-25°C). The substrate and vegetation can vary among lagoon, creek and marsh habitats. Recorded from Alameda, Del Norte, Humboldt, Los Angeles, Marin, Mendocino, Monterey, Orange, San Diego, San Francisco, San Luis Obispo, San Mateo, Santa Barbara, Santa Cruz, Sonoma, Ventura counties. Additional distribution: occurs along the southern California coast from Agua Hedionda Lagoon, to the mouth of the Smith River. Project site is outside of designated Critical Habitat.	None: no suitable habitat present.
Hypomesus transpacificus delta smelt	Federal FT State SE Other AFS: T DFW: SA	Occurs in open brackish and freshwater of large channels. Most frequently found at salinities < 2ppt.; seldom found at salinities > 10 ppt. Occurs in the Sacramento-San Joaquin Delta. Occurs seasonally in Suisun Bay, Carquinez Strait and San Pablo Bay. Recorded from Solano, Sacramento, San Joaquin, Solano, Yolo counties. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Site is outside of the species' range.
Oncorhynchus kisutch coho salmon - Central Cal. coast ESU	Federal FE State SE Other AFS: E DFW: SA	Anadromous. Inhabits Bay Area and coastal rivers and streams with fish access from/to ocean, cover and acceptable water quality. Requires beds of loose, silt-free, coarse gravel for spawning. Also requires cover, cool water and sufficient dissolved oxygen. Federal Listing covers populations between Punta Gorda and San Lorenzo River. State listing covers populations south of San Francisco Bay only. Recorded from Humboldt, Marin, Mendocino, Santa Cruz, Sonoma counties. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Project site is outside of the range of this ESU.
Oncorhynchus mykiss irideus steelhead - south/central Calif. coast DPS	Federal FT State none Other AFS: T DFW: SSC	The Distinct Population Segment includes steelhead inhabiting streams and tributaries in coastal basins south from the Pajarro River to, but not including, the Santa Maria River. Recorded from Monterey, San Luis Obispo, Santa Clara, Santa Cruz counties. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Project site is outside of the range of this ESU

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Oncorhynchus mykiss irideus steelhead - central Calif. coast DPS	Federal FT State none Other AFS: T DFW: SA	The Distinct Population Segment includes steelhead inhabiting streams and tributaries from the Russian River south to Soquel Creek and to, but not including the Pajarro River. Also occurs in the San Francisco and San Pablo basins. Recorded from Alameda, Marin, Napa, San Mateo, Santa Cruz, Sonoma counties. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Project site is outside of the range of this ESU.
Oncorhynchus mykiss irideus steelhead - Central Valley DPS	Federal FT State none Other AFS: T DFW: SA	The Distinct Population Segment includes steelhead inhabiting the Sacramento and San Joaquin Rivers and their tributaries. Also included are river reaches and estuarine areas of the Sacramento-San Joaquin Delta, all waters from Chipps Island westward to Carquinez Bridge, including Honker Bay, Grizzly Bay, Suisun Bay, and Carquinez Strait, all waters of San Pablo Bay westward of the Carquinez Bridge, and all waters of San Francisco Bay (north of the San Francisco/Oakland Bay Bridge) from San Pablo Bay to the Golden Gate Bridge. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Project site is within the range of this ESU.
Oncorhynchus tshawytscha chinook salmon - Central Valley spring-run ESU	Federal FT State ST Other AFS: T DFW: SA	Federal listing refers to populations spawning in Sacramento River and its tributaries. Adult numbers dependet on pool depth and volume, amunt of cover,and proximiy to gravel . Water temeratures grater than 27 C lethal to adult. Recorded from Butte, Humboldt, Nevada, Shasta, Siskiyou, Tehama, Trinity, Yuba counties. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Project site is within the range of this ESU.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Oncorhynchus tshawytscha chinook salmon - Sacramento River winter-run ESU	Federal FE State SE Other AFS: E DFW: SA	Requires clean, cold water over gravel beds with water temperatures between 6 and 14 c for spawning. Federal listing refers to populations in the Sacramento River from Keswick Dam, Shasta Co. (River Mile 302) to Chipps Island (River Mile 0) at the westward margin of the Sacramento-San Joaquin Delta, all waters from Chipps Island westward to Carquinez Bridge, including Honker Bay, Suisun Bay, and Carquinez Strait, all waters of San Pablo Bay westward of the Carquinez Bridge, and all waters of San Francisco Bay (north of the San Francisco/Oakland Bay Bridge) from San Pablo Bay to the Golden Gate Bridge. Recorded from Butte, Colusa, Contra Costa, Glenn, Napa, Nevada, Placer, Plumas, Sacramento, Shasta, Solano, Sutter, Tehama, Trinity, Yolo, Yuba counties. Project site is outside of designated Critical Habitat.	None: no suitable habitat present. Project site is within the range of this ESU.
Amphibia - Amphibians			
Ambystoma californiense California tiger salamander - Central Valley DPS	Federal FT State ST Other DFW: SSC	Needs underground refuges, especially ground squirrel burrows and vernal pools or other seasonal water sources for breeding. Recorded from Alameda, Amador, Butte, Calaveras, Contra Costa, Fresno, Kern, Kings, Madera, Mariposa, Merced, Monterey, Riverside, Sacramento, San Benito, San Joaquin, San Luis Obispo, San Mateo, Santa Clara, Santa Cruz, Solano, Stanislaus, Sutter, Tulare, Yolo counties. Nearest record is 5 mi E of site. Site is outside of designated Critical Habitat..	None: no suitable habitat present. site lacks breeding habitat and subterranean upland refugia habitat.
Rana boylii foothill yellow-legged frog	Federal none State none Other BLM: S DFW: SSC FS: S	Inhabits partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying. Requires at least 15 weeks to complete metamorphosis. Recorded from Butte, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Lake, Madera, Marin, Mariposa, Mendocino, Merced, Monterey, Napa, Nevada, Placer, Plumas, San Benito, San Joaquin, San Luis Obispo, San Mateo, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Tehama, Trinity, Tulare, Tuolumne, Yolo counties. Nearest record is 3.5 mi SE of site.	None: no suitable habitat present.

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Rana draytonii California red-legged frog	Federal FT State none Other DFW: SSC	Inhabits lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat. Recorded from Alameda, Butte, Butte, Calaveras, Contra Costa, El Dorado, Fresno, Glenn, Lake, Los Angeles, Marin, Mariposa, Mendocino, Merced, Monterey, Napa, Nevada, Placer, Plumas, Riverside, San Benito, San Bernardino, San Diego, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Solano, Sonoma, Stanislaus, Tehama, Tuolumne, Ventura, Yuba counties. Nearest record is 5 mi SE of site. Site is outside of designated Critical Habitat.	None: no suitable habitat present.
Reptilia - Reptiles			
Emys marmorata Pacific pond turtle	Federal none State none Other BLM: S DFW: SSC FS: S	A thoroughly aquatic turtle inhabiting ponds, marshes, rivers, streams and irrigation ditches with aquatic vegetation. Needs basking sites and sandy banks or grassy open fields in upland areas for egg-laying. Recorded from Alameda, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Glenn, Humboldt, Kern, Kings, Lake, Lassen, Los Angeles, Madera, Marin, Mariposa, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Orange, Placer, Plumas, Riverside, Sacramento, San Benito, San Bernardino, San Diego, San Francisco, San Joaquin, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Solano, Sonoma, Stanislaus, Tehama, Trinity, Tulare, Tuolumne, Ventura, Yolo, Yuba counties. Nearest record is 0.65 mi NE of site.	None: no suitable habitat present.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Phrynosoma blainvillii coast horned lizard	Federal none State none Other BLM: S DFW: SSC FS: S	Inhabits coastal sage scrub and chaparral in arid and semi-arid climate condit. Prefers friable, rocky, or shallow sandy soils. Diet consists of native ants and beetles. Active from April-Oct, with peak April-May. Recorded from Alameda, Butte, Contra Costa, El Dorado, Fresno, Kern, Los Angeles, Madera, Merced, Monterey, Nevada, Orange, Placer, Riverside, San Bernardino, San Diego, San Joaquin, San Luis Obispo, Santa Barbara, Santa Clara, Stanislaus, Tulare, Tuolumne, Ventura, Ventura counties. Also from Mexico. Nearest record is 10 mi SE of site.	None: no suitable habitat present. Site is outside of the species' range.
Aves - Birds			
Accipiter cooperii Cooper's hawk	Federal none State none Other DFW: WL FWS: MBTA	Inhabits primarily open, interrupted or marginal woodlands. Nests mainly in riparian groves of deciduous trees in canyon bottoms on river flood-plains. Also nests in coast live oak. DFW listing covers nesting individuals only. Nearest record is 5 mi NE of site. Confirmed nester in W, NW, N and central Santa Clara Co.	High: suitable nesting habitat in mixed oak woodland and riparian habitat. See text for discussion.
Accipiter striatus sharp-shinned hawk	Federal none State none Other DFW: WL FWS: MBTA	Nests in ponderosa pine, black oak, riparian deciduous, mixed conifer and Jeffrey pine habitats. Prefers riparian areas. Nests on north-facing slopes, usually within 275 ft of water. Plucking perches are critical requirements. DFW listing covers nesting birds only. Confirmed breeder in northern and central Santa Clara Co.	Not expected: marginally suitable nesting habitat present.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Agelaius tricolor tricolored blackbird	Federal none State none Other ABC: WL BLM: S DFW: SSC FWS: BCC; MBTA	Highly colonial species. Requires open water, protected nesting substrate, and foraging areas with insect prey within a few km of the colony. Greatest concentrations are in the Central Valley and vicinity. Largely endemic to California. DFG listing covers nesting colonies only. Not known to nest in W Santa Clara Co.; confirmed nester in N and central Santa Clara Co..	None: no suitable habitat present.
Ammodramus savannarum grasshopper sparrow	Federal none State none Other DFW: SSC FWS: MBTA	Inhabits moderately open grasslands and prairies with patchy bare ground, cultivated fields and forest clearings with short to moderately tall grasses and scattered shrubs. Areas with native bunchgrasses are important features in southern California. Breeds from min-March through August; double or treble-brooded. DFW listing covers nesting birds only. Not known to nest in W Santa Clara Co.; confirmed nester in NW, N and central Santa Clara Co.	None: no suitable habitat present.
Amphispiza belli belli Bell's sage sparrow	Federal none State none Other ABC: WL DFW: WL FWS: MBTA, BCC	Inhabits dry brushy foothills, chaparral and coastal sage scrub habitats west of the Sierras from Redding south into Baja California, Mexico. Breeding begins in March; double-brooded. DFW listing covers nesting birds only. Confirmed breeder in E and W Santa Clara Co.	Not expected: no suitable habitat present.
Aquila chrysaetos golden eagle	Federal none State none Other CDF: S DFW: FP, WL FWS: BCC, BEPA, MBTA	Nests and winters in rolling foothills and mountain areas in sage-juniper flats and deserts. Nests on cliff-walled canyons and large trees in open areas. DFW listing covers nesting and wintering birds only. Probable breeder in W and NW Santa Clara Co.	None: no suitable nestng habitat present.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Asio otus long-eared owl	Federal none State none Other DFW: SSC FWS: MBTA	Inhabits riparian bottomlands grown to tall willows and cottonwoods. Also occurs in belts of live oak paralleling stream courses. Requires adjacent open land with abundant mice. Utilizes old nests of crows, hawks, or magpies for breeding. DFW listing covers nesting birds only. Recorded from Inyo, Kern, Lassen, Modoc, Mono, Nevada, Orange, Riverside, San Bernardino, Santa Clara counties. A very rare to casual and irregular breeder in Santa Clara Co..	Not expected: no suitable habitat present.
Athene cunicularia burrowing owl	Federal none State none Other BLM: S DFW: SSC FWS: BCC; MBTA	Inhabits open, dry annual or perenial grasslands, deserts and scrublands characterized by low-growing vegetation. Nests underground in mammal burrows, especially those of California ground squirrel. DFW listing covers burrow sites and some wintering sites only. Nearest record is 6.5 mi NE of site. Confirmed nester in NW and central Santa Clara Co.	None: no suitable nesting habitat present.
Baeolophus inornatus oak titmouse	Federal none State none Other ABC: WL DFW: SA FWS: MBTA	The oak titmouse is a common resident in a variety of habitats, but is primarily associated with oaks. Occurs in montane hardwood-conifer, montane hardwood, blue, valley, and coastal oak woodlands, and montane and valley foothill riparian habitats. Range encircles San Joaquin Valley, extending east from the coast through Kern Co. onto the western slope of the Sierra Nevada north to Shasta Co. DFW listing covers nesting individuals only. Confirmed nester throughout Santa Clara Co.	High: suitable nesting habitat present.

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Brachyramphus marmoratus marbled murrelet	Federal FT State SE Other ABC: WL CDF: S DFW: SA FWS: MBTA	Nests in old-growth redwood-dominated forests, up to six miles inland, often in Douglas fir trees. Forages near-shore. Nests inland along the northern California coast. Listings cover nesting sites. Nearest record is 15.5 mi W of site. Project site is outside of designated Critical Habitat.	None: no suitable nesting habitat present.
Chaetura vauxi Vaux's swift	Federal none State none Other DFW: SSC FWS: MBTA	Nests in redwood, Douglas fir, and other coniferous forests. Nests in large hollow trees and snags. Often nests in flocks. Forages over most terrains and habitats but shows a preference for foraging over rivers and lakes. DFW listing covers nesting birds only. Confirmed breeder in central-western Santa Clara Co.	None: no suitable nesting habitat present. Site is outside of the species' range.
Chondestes grammacus lark sparrow	Federal none State none Other DFW: SA FWS: MBTA	A year-round resident throughout much of California. Inhabits open grasslands, cultivated fields (especially those left fallow), pastures, and shrub-steppe and Pinyon-juniper edges. Nests on ground; nests made of grassess and small twigs. Breeding begins in early April to June; double-brooded. DFW listing covers nesting individuals only. Confirmed nester in N, S, E, W and central Santa Clara Co.	None: no suitable habitat present.
Circus cyaneus northern harrier	Federal none State none Other DFW: SSC FWS: MBTA	Inhabits both freshwater and saltwater marshes and adjacent upland grasslands. Nests on the ground in tall grasses in grasslands and meadows. Breeding begins in March; single-brooded. DFW listing covers nesting individuals only. Confirmed breeder in NW and S Santa Clara Co.	None: no suitable habitat present.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Contopus cooperi olive-sided flycatcher	Federal none State none Other ABC: WL DFW: SSC FWS: BCC	Inhabits open canopy late-successional coniferous forests and Eucalyptus groves in foothill canyons. Prefers edge habitats and openings often associated with clear-cuts, burned areas, slashings, and fragmented forests. Often nests in willows, alders, oaks and eucalyptus trees within lowlands. CA distribution ranges from the Oregon border south along the Modoc Plateau, Sierra Nevada, coastal mountain ranges W of the Central Valley to Santa Barbara Co, and in the higher elevations of the Transverse and Peninsular ranges. Breeds from early May to late Aug.; single-brooded. DFW listing covers nesting individuals only. Confirmed breeder in W, SW, NW and N Santa Clara Co.	Not expected: no suitable nesting habitat present.
Cypseloides niger black swift	Federal none State none Other ABC: WL AUD: WL-Y DFW: SSC FWS: BCC; MBTA	Inhabits the coastal belt of the Central Coast, central and southern Sierra Nevada, and San Bernardino and San Jacinto mountains. Breeds in small colonies on cliffs behind or adj to waterfalls in deep canyons and sea-bluffs above surf. Forages widely. DFG listing covers nesting individuals only. Occurrences limited to the coastlines of Santa Cruz and Monterey Co.	None: no suitable nesting habitat present.
Dendroica occidentalis hermit warbler	Federal none State none Other ABC: WL DFW: SA FWS: MBTA	Occurs in coast redwood forests and interior mixed deciduous and coniferous forests farther inland. Requires cool, dark, moist forests for breeding. In migration and winter, also occurs in valley foothill hardwood habitat and in stands of planted pines. Breeds in major mountain ranges from San Gabriel and San Bernardino Mts. northward (Garrett and Dunn 1981), excluding coastal ranges south of Santa Cruz Co. (McCaskie et al. 1979). DFW listing covers nesting individuals only. Confirmed breeder in small patch of western Santa Clara Co.	None: no suitable habitat present.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Elanus leucurus white-tailed kite	Federal none State none Other DFW: FP FWS: MNB, MBTA	Inhabits rolling foothills andvalley margins with scattered oaks and river bottomlands or marshes next to deciduous woodlands. Utilizes open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching. DFW listing covers nesting individuals only. Nearest record is 8.5 mi NW of site. Confirmed nester in N, NW and central Santa Clara Co.	Not expected: marginally suitable habitat present.
Falco mexicanus prairie falcon	Federal none State none Other DFW: WL FWS: BCC; MBTA	Inhabits dry, open terrain, either level or hilly. Breeding sites located on cliffs. Forages far afield, including marshlands and ocean shores. DFW listing covers nesting birds only. Confirmed breeder in N and E Santa Clara Co.	Not expected: no suitable habitat present.
Falco peregrinus anatum American peregrine falcon	Federal Delisted State Delisted Other CDF: S DFW: FP FWS: BCC, MBTA	Nests near wetlands, lakes, rivers, or other water bodies, on cliffs, banks, dunes, mounds, and human-made structures. Nests consist of a scrape on a depression or ledge in an open site. DFW listing covers nesting individuals only. Nearest record is 6.5 mi SW of site. Not a confirmed nester in Santa Clara Co..	Not expected: no suitable nesting habitat present.
Geothlypis trichas sinuosa saltmarsh common yellowthroat	Federal none State none Other DFW: SSC FWS: BCC, MBTA	Inhabits freshwater and salt marshes. Requires thick, continuous cover down to water surface for foraging. Nests in tall grasses, tule patches and willows. Resident of the San Francisco Bay region. Recorded from Alameda, Marin, Napa, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano, Sonoma counties. A fairly common and regular breeder in Santa Clara Co.	None: no suitable habitat present.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Icteria virens yellow-breasted chat	Federal none State none Other DFW: SSC FWS: MBTA	Summer resident of riparian thickets of willow and other brushy tangles near watercourses. Nests in low, dense riparian, consisting of willow, blackberry, wild grape. Forages and nests within 10 ft of surface. DFW listing covers nesting birds only. Recorded from Imperial, Inyo, Kern, Mendocino, Orange, Riverside, San Benito, San Bernardino, San Diego, Solano, Stanislaus, Tehama, Ventura counties. A very rare to casual but regular breeder in Santa Clara Co.	None: no suitable habitat present.
Lanius ludovicianus loggerhead shrike	Federal none State none Other DFW: SCC FWS: BCC; MBTA	Year-round resident in California. Inhabits shrublands and open woodlands associated with grasslands with areas bare ground and impaling sites such as thorny vegetation, multi-stemmed plants or barbed wire. Breeds from early Feb. - July; double- to triple-brooded DFW listing covers nesting individuals only. Confirmed nester in S, N, NW and central Santa Clara Co.; possible breeder in W Santa Clara Co.	Not expected: marginally suitable habitat present. Woodland on site is not typical foraging or nesting habitat.
Pandion haliaetus osprey	Federal none State none Other CDF: S DFW: WL FWS: MBTA	Nests along ocean shores, bays, freshwater lakes, and larger streams. Constructs large nests in tree-tops within 15 miles of good fish-producing body of water. DFW listing covers nesting individuals only. Nearest record is 5 mi S of site Not known to nest in Santa Clara Co.	Not expected: no suitable habitat present.
Passerculus sandwichensis alaudinus Bryant's savannah sparrow	Federal none State none Other DFW: CSC	Associated with the coastal fog belt, primarily between Humboldt and northern Monterey Counties. Occupies low tidally influenced habitats, adjacent to ruderal areas; often found where pickleweed communities merge into grassland. Infrequently found in drier grasslands. Occasionally found in hills east of Los Gatos.	Not expected: no suitable nesting habitat present.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Picoides nuttallii Nuttall's woodpecker	Federal none State none Other ABC: WL DFW: SA FWS: BCC, MBTA	Inhabits oak woodland and mixed riparian woodlands. Forage along bark of trees for insects; also feeds on acorns. Cavity nester. Breeding begins in March; single-brooded. DFW listing covers nesting individuals only. Confirmed nester throughout Santa Clara Co.	High: suitable nesting habitat present.
Progne subis purple martin	Federal none State none Other DFW: SSC	Nests in tall, old trees near a body of water in open forests, woodlands, & riparian habitats. Forages in valley foothills, meadows, grasslands, montane hardwood, riparian habitats, closed-cone pine-cypress, ponderosa pine, Douglas fir, & redwood forests. Breeds from May to mid-August; primarily single-brooded. DFW listing covers nesting individuals only. Confirmed breeder in central-W edge of Santa Clara Co.	Not expected: no suitable nesting habitat present. Site is outside of the species' range.
Rallus longirostris obsoletus California clapper rail	Federal FE State SE Other ABC: WL DFW: FP FWS: MBTA	Inhabits salt-water and brackish marshes traversed by tidal sloughs in the vicinity of San Francisco Bay. Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud-bottomed sloughs. Confirmed breeder in the NW corner of Santa Clara Co.	None: no suitable habitat present. Occurrences confined to the San Francisco Bay
Selasphorus sasin Allen's hummingbird	Federal none State none Other ABC: WL DFW: SA FWS: BCC, MBTA	Inhabits a variety of woodland and scrub habitats. Breeds in a variety of habitats including moist coastal areas, scrub, chaparral and woodlands. Breeding begins in February; double-brooded. DFW listing covers nesting individuals only. Confirmed nester in W, SW and N Santa Clara Co.	Moderate: suitable nesting habitat present. See text for discussion.

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Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Setophaga [Dendroica] petechia brewsteri yellow warbler	Federal none State none Other DFW: SSC FWS: BCC, MBTA	Inhabits riparian plant associations. Prefers willows, cottonwoods, aspens, sycamores, and alders for nesting and foraging. Also nests in montane shrubbery in open conifer forests. DFW listing covers nesting individuals only. Confirmed breeder throughout Santa Clara Co.	None: no suitable nesting habitat present.
Spinus lawrencei Lawrence's goldfinch	Federal none State none Other ABC: WL DFW: SA FWS: BCC; MBTA	Inhabits arid oak/pine woodlands, foothills and chaparral from northern California west of the Sierra Nevada south to Baja California, Mexico. Breeding begins in March; double-brooded . DFW listing covers nesting individuals only. Confirmed breeder in S, E and central Santa Clara Co.	Moderate: suitable nesting habitat present. See text for discussion.
Spizella atrogularis black-chinned sparrow	Federal none State none Other ABC: WL FWS: BCC; MBTA	Inhabits open chaparral, sagebrush and dense rocky/scrub habitats. Breeds throughout the arid regions of California. DFW listing covers nesting birds only. A rare but confirmed breeder in Santa Clara Co.	None: no suitable habitat present.
Spizella passerina chipping sparrow	Federal none State none Other DFW: SA FWS: MBTA	Inhabits open woodlands, conifers, mostly yellow pine and Douglas fir, orchards, agricultural fields and suburbs. Breeds throughout the west and in much of California except for the Central Valley. Breeding begins in March; double-brooded . DFW listing covers nesting individuals only. Confirmed nester in E, N, NE, SE and W Santa Clara Co.	None: no suitable habitat present.

Special-status Animals Evaluated For 100 Prospect Avenue

Wood Biological Consulting

SORTED BY CLASS

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Mammalia - Mammals			
Antrozous pallidus pallid bat	Federal none State none Other BLM: S DFW: SSC FS: S WBWG: H	Inhabits deserts, grasslands, shrublands, woodlands and forests. Most commonly found in open, dry habitats with rocky areas for roosting. Roosts must provide protection from high temperatures. Species is very sensitive to disturbances to roosting sites. Recorded from Calaveras, Imperial, Inyo, Kern, Lake, Marin, Mariposa, Mono, Napa, Orange, Riverside, San Bernardino, San Diego, San Joaquin, San Luis Obispo, Santa Barbara, Siskiyou, Sonoma, Tuolumne counties. Also from Arizona, Nevada, New Mexico, Oregon, Washington. Nearest record is 4 mi E of site.	Moderate: suitable roosting habitat present. See text for discussion.
Corynorhinus townsendii townsendii Townsend's big-eared bat	Federal none State none Other BLM: S DFW: SSC FS: S WBWG: H	Inhabits humid coastal regions of northern and central California. Roosts in limestone caves, lava tubes, mines, buildings etc. Will only roost in the open, hanging from walls and ceilings. Roosting sites are limiting. Extremely sensitive to disturbance. BLM, DFW and FS listings cover full species. Recorded from Alameda, Colusa, Humboldt, Lake, Marin, Mendocino, Napa, San Joaquin, Santa Cruz, Yolo counties. Not recorded from Santa Clara Co.	Moderate: suitable roosting habitat present. See text for discussion.
Dipodomys venustus venustus Santa Cruz kangaroo rat	Federal none State none Other DFW: SA	Inhabits silverleaf manzanita mixed chaparral in the Zayante Hills ecosystem of the Santa Cruz mountains. Needs soft, well-drained sand. Recorded from San Mateo, Santa Clara, Santa Cruz counties. Nearest record is 6.5 mi W of site.	Not expected: no suitable habitat present.
Lasiurus cinereus hoary bat	Federal none State none Other DFW: SA WBWG: M	The hoary bat is the most widespread North American bat. May be found at any location in California. Prefers open habitats or mosaics with acess to trees for cover and open areas or edges for foraging. Roosts in dense foliage of medium to large trees. Nearest record is 2 mi NW of site.	Moderate: suitable roosting habitat present. See text for discussion.

Special-status Animals Evaluated For 100 Prospect Avenue

Wood Biological Consulting

SORTED BY CLASS

Scientific Name Common Name	Status	Habitat Affinities And Reported Distribution	Potential For Occurrence On Site
Myotis evotis long-eared myotis	Federal none State none Other BLM: S DFW: SA WBWG: M	Inhabits all brush, woodland and forest habitats from sea level to about 9000 ft. in elevation. Prefers coniferous woodlands and forests. Forms nursery colonies in buildings, crevices, spaces under bark, and snags. Caves used primarily as night roosts. General distribution:occurs statewide. Nearest record is 12.5 mi NW of site.	Moderate: suitable roosting habitat present. See text for discussion.
Myotis thysanodes fringed myotis	Federal none State none Other BLM: S DFW: SA WBWG: H	Exhibits a strong roosting preference for large trees and snags, but will use buildings, caves, rock crevices, etc. Inhabits a variety of woodland, scrub and grassland habitats up to 2,850 m throughout CA except for Central Valley and So. deserts. Forages great distances and is active during winter months. Highly sensitive to human disturbance. General distribution:occurs throughout California. Not recorded from Santa Clara Co.	Not expected: marginal roosting habitat present within mixed oak woodland
Myotis yumanensis Yuma myotis	Federal none State none Other BLM: S DFW: SA WBWG: LM	Inhabits open forests and woodlands with sources of water over which to feed. Species is closely tied to bodies of water. Maternity colonies in caves, mines, buildings or crevices. General distribution:occurs throughout California. Nearest record is 5 mi NW of sit.	Moderate: suitable roosting habitat present. See text for discussion.
Neotoma fuscipes annectens San Francisco dusky-footed woodrat	Federal none State none Other DFW: SSC	One of eleven recognized subspecies. Inhabits oak and riparian woodlands with a well-developed understory in the SF Bay Area. They exhibit high site fidelity and may live in the same nest community for generations. Nest structures are key indicator of their presence and are easily identified by their conical appearance. Recorded from Alameda, Contra Costa, San Francisco, San Mateo, Santa Clara counties. Study area within subspecies range.	Moderate: suitable habitat present. See text for discussion.
Taxidea taxus American badger	Federal none State none Other DFW: SSC	Most abundant in dry, open stages of most shrub, forest, and herbaceous habitats. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Excavates its own burrows. General distribution: recorded from every California county except Del Norte. Nearest record is 15 mi E of site.	Not expected: no suitable habitat present.

EXPLANATION OF RARITY STATUS CODES

ENDANGERED SPECIES ACT (ESA) LISTING CODES

FE = federally listed as Endangered
FT = federally listed as Threatened
FPE = federally proposed for listing as Endangered
FPT = federally proposed for listing as Threatened
FPD = federally proposed for delisting
FC = federal candidate; former Category 1 candidates
SC = species of concern; established by NMFS, effective April 15, 2004.

CALIFORNIA ENDANGERED SPECIES ACT (CESA) LISTING CODES

SE = State-listed as Endangered
ST = State-listed as Threatened
SR = State-listed as Rare
SCE = State candidate for listing as Endangered
SCT = State candidate for listing as Threatened
SCD = State candidate for delisting

GLOBAL AND STATE RANKINGS

G1/S1 = Critically imperiled: at high risk of extinction, extremely rare.
G2/S2 = Imperiled: at high risk of extinction, restricted range, very few populations.
G3/S3 = Vulnerable: moderate risk of extinction, restricted range, few populations.
G4/S4 = Apparently secure: uncommon, not rare, possible long-term declines.
G5/S5 = Secure: common, widespread, abundant.

CALIFORNIA NATIVE PLANT SOCIETY DESIGNATIONS

List 1: Plants of highest priority.
List 1A: Plants presumed extinct in CA.
List 1B: Plants rare and endangered in CA and elsewhere.
List 2A: Plants presumed extirpated in CA but common elsewhere.
List 2B: Plants rare, threatened or endangered in CA but common elsewhere.
List 3: Plants for which additional data are needed – Review List.
List 4: Plants of limited distribution – Watch List.

CNPS Threat Code Extensions

.1 - Seriously endangered in CA
.2 – Fairly endangered in CA
.3 – Not very endangered in CA

OTHER CODES

ABC: WL - American Bird Conservancy Watch List of Birds of Conservation Concern.

AFS - American Fisheries Society categories of risk for marine, estuarine and diadromous fish stocks. Codes: **E**=endangered; **T**=threatened; **V**=vulnerable

AUD: WL - Audubon: Watch List 2007. Bird species facing population decline and/or threats such as loss of breeding and wintering grounds, or species with limited geographic ranges. **R** – Red List, global conservation concern; **Y** – Yellow List, national conservation concern.

BLM: S - Bureau of Land Mgt: Sensitive. Includes species under review by USFWS or NMFS, species whose numbers are declining so rapidly that federal listing may become necessary, species with small and widely dispersed populations, or species inhabiting refugia or other unique habitats.

CDF: S – CA Dept. of Forestry and Fire Protection: Sensitive. Includes species that warrant special protection during timber operations.

DFW: FP - CA Dept. of Fish and Wildlife: Fully Protected. Species protected under §§3511 (birds), 4700 (mammals), 5050 (reptiles and amphibians), and 5515 (fish) of the California Fish and Game Code.

DFW: SA - CA. Dept. of Fish and Wildlife: Special Animal. Species included on the CDFG's lists of special animals.

DFW: SP - CA Dept. of Fish and Wildlife: Special Plant. Species included on the CDFG's lists of special plants.

DFW: SSC - CA Dept. of Fish and Wildlife: California Species of Special Concern.

DFW: WL - CA Dept. of Fish and Wildlife: (Watch List): taxa that don't meet SSC criteria but about which there is concern and additional information is needed to clarify status.

FS: S - USDA Forest Service: Sensitive. Species whose population viability is a concern, as evidenced by significant current or predicted downward trends in numbers or density, or in habitat capability that would reduce a species' existing distribution.

FWS: BCC - U.S. Fish and Wildlife Service: Birds of Conservation Concern. Migratory and non-migratory bird species that represent the USFWS's highest conservation priorities.

FWS: BEPA - U.S. Fish and Wildlife Service: Bald Eagle Protection Act.

FWS: MBTA U.S. Fish and Wildlife Service: International Migratory Bird Treaty Act.

FWS: MNB - U.S. Fish and Wildlife Service: Migratory Nongame Birds of Management Concern. Species of concern in the U.S. due to documented or apparent population declines, small or restricted populations, or dependence on restricted or vulnerable habitats.

NMFS: SC - National Marine Fisheries Service: Species of Concern.

WBWG - Western Bat Working Group. Priority for funding, planning or conservation actions. Codes: **H**=high; **MH**=medium-high; **M**=medium; **LM**=low-medium

Xerces - Xerces Society Red List.

Codes: **C**=critically imperiled; **I**=imperiled; **V**=vulnerable; **D**=data deficient

California Department of Fish and Game
Natural Diversity Database
100 Prospect Avenue, Los Gatos
Los Gatos, San Jose West, San Jose East, Santa Teresa Hills, Loma Prieta, Laurel, Felton, Castle Rock Ridge and Cupertino 7.5 minute USGS quadrangles

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1	***Accipiter cooperii*** Cooper's hawk	ABNKC12040			G5	S3	
2	***Adela oplerella*** Opler's longhorn moth	IILEE0G040			G2G3	S2S3	
3	***Agelaius tricolor*** tricolored blackbird	ABPBXB0020			G2G3	S2	SC
4	***Ambystoma californiense*** California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	SC
5	***Amsinckia lunaris*** bent-flowered fiddleneck	PDBOR01070			G2?	S2?	1B.2
6	***Anomobryum julaceum*** slender silver moss	NBMUS80010			G4G5	S2	2.2
7	***Antrozous pallidus*** pallid bat	AMACC10010			G5	S3	SC
8	***Aquila chrysaetos*** golden eagle	ABNKC22010			G5	S3	
9	***Arctostaphylos andersonii*** Anderson's manzanita	PDERI04030			G2	S2?	1B.2
10	***Arctostaphylos silvicola*** Bonny Doon manzanita	PDERI041F0			G2	S2.1	1B.2
11	***Arenaria paludicola*** marsh sandwort	PDCAR040L0	Endangered	Endangered	G1	S1	1B.1
12	***Athene cunicularia*** burrowing owl	ABNSB10010			G4	S2	SC
13	***Balsamorhiza macrolepis*** big-scale balsamroot	PDAST11061			G2	S2	1B.2
14	***Calasellus californicus*** An isopod	ICMAL34010			G2	S2	
15	***California macrophylla*** round-leaved filaree	PDGER01070			G2	S2	1B.1
16	***Calyptridium parryi var. hesseae*** Santa Cruz Mountains pussypaws	PDPOR09052			G3G4T2	S2	1B.1
17	***Campanula californica*** swamp harebell	PDCAM02060			G3	S3	1B.2
18	***Carex comosa*** bristly sedge	PMCYP032Y0			G5	S2	2.1
19	***Carex saliniformis*** deceiving sedge	PMCYP03BY0			G2	S2.2	1B.2
20	***Ceanothus ferrisiae*** Coyote ceanothus	PDRHA041N0	Endangered		G2	S2	1B.1
21	***Centromadia parryi ssp. congdonii*** Congdon's tarplant	PDAST4R0P1			G4T2	S2	1B.1
22	***Chorizanthe pungens var. hartwegiana*** Ben Lomond spineflower	PDPGN040M1	Endangered		G2T1	S1	1B.1
23	***Chorizanthe pungens var. pungens*** Monterey spineflower	PDPGN040M2	Threatened		G2T2	S2	1B.2

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24	***Chorizanthe robusta var. hartwegii*** Scotts Valley spineflower	PDPGN040Q1	Endangered		G2T1	S1	1B.1
25	***Chorizanthe robusta var. robusta*** robust spineflower	PDPGN040Q2	Endangered		G2T1	S1	1B.1
26	***Cicindela ohlone*** Ohlone tiger beetle	IICOL026L0	Endangered		G1	S1	
27	***Cirsium fontinale var. campylon*** Mt. Hamilton fountain thistle	PDAST2E163			G2T2	S2	1B.2
28	***Clarkia concinna ssp. automixa*** Santa Clara red ribbons	PDONA050A1			G5?T3	S3.3	4.3
29	***Collinsia multicolor*** San Francisco collinsia	PDSCR0H0B0			G2	S2.2	1B.2
30	***Cypseloides niger*** black swift	ABNUA01010			G4	S2	SC
31	***Dacryophyllum falcifolium*** tear drop moss	NBMUS8Z010			G1	S1	1B.3
32	***Didymodon norrisii*** Norris' beard moss	NBMUS2C0H0			G3G4	S3S4	2.2
33	***Dipodomys venustus venustus*** Santa Cruz kangaroo rat	AMAFD03042			G4T1	S1	
34	***Dirca occidentalis*** western leatherwood	PDTHY03010			G2G3	S2S3	1B.2
35	***Dudleya abramsii ssp. setchellii*** Santa Clara Valley dudleya	PDCRA040Z0	Endangered		G3T2	S2	1B.1
36	***Elanus leucurus*** white-tailed kite	ABNKC06010			G5	S3	
37	***Emys marmorata*** western pond turtle	ARAAD02030			G3G4	S3	SC
38	***Eriogonum nudum var. decurrens*** Ben Lomond buckwheat	PDPGN08492			G5T2	S2.1	1B.1
39	***Erysimum teretifolium*** Santa Cruz wallflower	PDBRA160N0	Endangered	Endangered	G2	S2	1B.1
40	***Euphilotes enoptes smithi*** Smith's blue butterfly	IILEPG2026	Endangered		G5T1T2	S1S2	
41	***Euphydryas editha bayensis*** Bay checkerspot butterfly	IILEPK4055	Threatened		G5T1	S1	
42	***Falco peregrinus anatum*** American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T3	S2	
43	***Fissidens pauperculus*** minute pocket moss	NBMUS2W0U0			G3?	S1	1B.2
44	***Fritillaria liliacea*** fragrant fritillary	PMLIL0V0C0			G2	S2	1B.2
45	***Hesperocyparis abramsiana var. abramsiana*** Santa Cruz cypress	PGCUP04081	Endangered	Endangered	G1T1	S1	1B.2
46	***Hoita strobilina*** Loma Prieta hoita	PDFAB5Z030			G2	S2	1B.1

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
47	***Holocarpha macradenia*** Santa Cruz tarplant	PDAST4X020	Threatened	Endangered	G1	S1	1B.1
48	***Horkelia cuneata var. sericea*** Kellogg's horkelia	PDROS0W043			G4T2	S2?	1B.1
49	***Horkelia marinensis*** Point Reyes horkelia	PDROS0W0B0			G2	S2.2	1B.2
50	***Lasiurus cinereus*** hoary bat	AMACC05030			G5	S4?	
51	***Lasthenia conjugens*** Contra Costa goldfields	PDAST5L040	Endangered		G1	S1	1B.1
52	***Lessingia micradenia var. glabrata*** smooth lessingia	PDAST5S062			G2T2	S2	1B.2
53	***Malacothamnus aboriginum*** Indian Valley bush-mallow	PDMAL0Q020			G2	S2	1B.2
54	***Malacothamnus arcuatus*** arcuate bush-mallow	PDMAL0Q0E0			G2Q	S2.2	1B.2
55	***Malacothamnus hallii*** Hall's bush-mallow	PDMAL0Q0F0			G2Q	S2	1B.2
56	***Margaritifera falcata*** western pearlshell	IMBIV27020			G4G5	S2S3	
57	***Maritime Coast Range Ponderosa Pine Forest***	CTT84132CA			G1	S1.1	
58	***Microcina homi*** Hom's micro-blind harvestman	ILARA47020			G1	S1	
59	***Microseris paludosa*** marsh microseris	PDAST6E0D0			G2	S2.2	1B.2
60	***Monolopia gracilens*** woodland woollythreads	PDAST6G010			G2G3	S2S3	1B.2
61	***Myotis evotis*** long-eared myotis	AMACC01070			G5	S4?	
62	***Myotis yumanensis*** Yuma myotis	AMACC01020			G5	S4?	
63	***North Central Coast Drainage Sacramento Sucker/Roach River***	CARA2623CA			GNR	SNR	
64	***Northern Maritime Chaparral***	CTT37C10CA			G1	S1.2	
65	***Oncorhynchus kisutch*** coho salmon - central California coast ESU	AFCHA02034	Endangered	Endangered	G4	S2?	
66	***Oncorhynchus mykiss irideus*** steelhead - central California coast DPS	AFCHA0209G	Threatened		G5T2Q	S2	
67	***Oncorhynchus mykiss irideus*** steelhead - south/central California coast DPS	AFCHA0209H	Threatened		G5T2Q	S2	SC
68	***Pandion haliaetus*** osprey	ABNKC01010			G5	S3	
69	***Penstemon rattanii var. kleei*** Santa Cruz Mountains beardtongue	PDSCR1L5B1			G4T2	S2.2	1B.2
70	***Pentachaeta bellidiflora*** white-rayed pentachaeta	PDAST6X030	Endangered	Endangered	G1	S1	1B.1

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
71	***Philanthus nasalis*** Antioch specid wasp	IIHYM20010			G1	S1	
72	***Phrynosoma blainvillii*** coast horned lizard	ARACF12100			G4G5	S3S4	SC
73	***Piperia candida*** white-flowered rein orchid	PMORC1X050			G3?	S2	1B.2
74	***Plagiobothrys chorisianus var. chorisianus*** Choris' popcornflower	PDBOR0V061			G3T2Q	S2.2	1B.2
75	***Plagiobothrys diffusus*** San Francisco popcornflower	PDBOR0V080		Endangered	G1Q	S1	1B.1
76	***Plagiobothrys glaber*** hairless popcornflower	PDBOR0V0B0			GH	SH	1A
77	***Polygonum hickmanii*** Scotts Valley polygonum	PDPGN0L310	Endangered	Endangered	G1	S1	1B.1
78	***Polyphylla barbata*** Mount Hermon (=barbate) June beetle	IICOL68030	Endangered		G1	S1	
79	***Rana boylii*** foothill yellow-legged frog	AAABH01050			G3	S2S3	SC
80	***Rana draytonii*** California red-legged frog	AAABH01022	Threatened		G4T2T3	S2S3	SC
81	***Rosa pinetorum*** pine rose	PDROS1J0W0			G2Q	S2.2	1B.2
82	***Senecio aphanactis*** chaparral ragwort	PDAST8H060			G3?	S2	2.2
83	***Serpentine Bunchgrass***	CTT42130CA			G2	S2.2	
84	***Streptanthus albidus ssp. albidus*** Metcalf Canyon jewel-flower	PDBRA2G011	Endangered		G2T1	S1	1B.1
85	***Streptanthus albidus ssp. peramoenus*** most beautiful jewel-flower	PDBRA2G012			G2T2	S2.2	1B.2
86	***Taxidea taxus*** American badger	AMAJF04010			G5	S4	SC
87	***Trifolium buckwestiorum*** Santa Cruz clover	PDFAB402W0			G2	S2	1B.1
88	***Trifolium hydrophilum*** saline clover	PDFAB400R5			G2	S2	1B.2
89	***Trimerotropis infantilis*** Zayante band-winged grasshopper	IIORT36030	Endangered		G1	S1	

CNPS California Native Plant Rare and Endangered Plant Inventory

Plant List

70 matches found. *Click on scientific name for details*

Search Criteria

Found in 9 Quads around 37121B8

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank
Amsinckia lunaris	bent-flowered fiddleneck	Boraginaceae	annual herb	1B.2	S2?	G2?
Androsace elongata ssp. acuta	California androsace	Primulaceae	annual herb	4.2	S3.2?	G5?T3T4
Anomobryum julaceum	slender silver moss	Bryaceae	moss	2B.2	S2	G4G5
Arabis blepharophylla	coast rockcress	Brassicaceae	perennial herb	4.3	S3.3?	G3
Arctostaphylos andersonii	Anderson's manzanita	Ericaceae	perennial evergreen shrub	1B.2	S2?	G2
Arctostaphylos silvicola	Bonny Doon manzanita	Ericaceae	perennial evergreen shrub	1B.2	S2.1	G2
Arenaria paludicola	marsh sandwort	Caryophyllaceae	perennial stoloniferous herb	1B.1	S1	G1
Balsamorhiza macrolepis	big-scale balsamroot	Asteraceae	perennial herb	1B.2	S2	G2
Calandrinia breweri	Brewer's calandrinia	Montiaceae	annual herb	4.2	S3.2?	G4
California macrophylla	round-leaved filaree	Geraniaceae	annual herb	1B.1	S2	G2
Calyptridium parryi var. hesseae	Santa Cruz Mountains pussypaws	Montiaceae	annual herb	1B.1	S2	G3G4T2
Calystegia collina ssp. venusta	South Coast Range morning-glory	Convolvulaceae	perennial rhizomatous herb	4.3	S3.2	G4T3
Campanula californica	swamp harebell	Campanulaceae	perennial rhizomatous herb	1B.2	S3	G3
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	2B.1	S2	G5
Carex saliniformis	deceiving sedge	Cyperaceae	perennial rhizomatous herb	1B.2	S2.2	G2
Ceanothus ferrisiae	Coyote ceanothus	Rhamnaceae	perennial evergreen shrub	1B.1	S2	G2
Centromadia parryi ssp. congdonii	Congdon's tarplant	Asteraceae	annual herb	1B.1	S2	G4T2
Chorizanthe pungens var. hartwegiana	Ben Lomond spineflower	Polygonaceae	annual herb	1B.1	S1	G2T1
Chorizanthe pungens var. pungens	Monterey spineflower	Polygonaceae	annual herb	1B.2	S2	G2T2
		Polygonaceae	annual herb	1B.1	S1	G2T1

Chorizanthe robusta var. hartwegii	Scotts Valley spineflower					
Chorizanthe robusta var. robusta	robust spineflower	Polygonaceae	annual herb	1B.1	S1	G2T1
Cirsium fontinale var. campylon	Mt. Hamilton fountain thistle	Asteraceae	perennial herb	1B.2	S2	G2T2
Clarkia breweri	Brewer's clarkia	Onagraceae	annual herb	4.2	S3.2	G3
Clarkia concinna ssp. automixa	Santa Clara red ribbons	Onagraceae	annual herb	4.3	S3.3	G5?T3
Collinsia multicolor	San Francisco collinsia	Plantaginaceae	annual herb	1B.2	S2.2	G2
Dacryophyllum falcifolium	tear drop moss	Hypnaceae	moss	1B.3	S1	G1
Didymodon norrisii	Norris' beard moss	Pottiaceae	moss	2B.2	S3S4	G3G4
Dirca occidentalis	western leatherwood	Thymelaeaceae	perennial deciduous shrub	1B.2	S2S3	G2G3
Dudleya abramsii ssp. setchellii	Santa Clara Valley dudleya	Crassulaceae	perennial herb	1B.1	S2	G3T2
Eriogonum nudum var. decurrens	Ben Lomond buckwheat	Polygonaceae	perennial herb	1B.1	S2.1	G5T2
Erysimum teretifolium	Santa Cruz wallflower	Brassicaceae	perennial herb	1B.1	S2	G2
Fissidens pauperculus	minute pocket moss	Fissidentaceae	moss	1B.2	S1	G3?
Fritillaria liliacea	fragrant fritillary	Liliaceae	perennial bulbiferous herb	1B.2	S2	G2
Galium andrewsii ssp. gatense	phlox-leaf serpentine bedstraw	Rubiaceae	perennial herb	4.2	S3.2	G5T3
Hesperocyparis abramsiana var. abramsiana	Santa Cruz cypress	Cupressaceae	perennial evergreen tree	1B.2	S1.1	G1T1
Hoita strobilina	Loma Prieta hoita	Fabaceae	perennial herb	1B.1	S2	G2
Holocarpha macradenia	Santa Cruz tarplant	Asteraceae	annual herb	1B.1	S1	G1
Horkelia cuneata var. sericea	Kellogg's horkelia	Rosaceae	perennial herb	1B.1	S2?	G4T2
Horkelia marinensis	Point Reyes horkelia	Rosaceae	perennial herb	1B.2	S2.2	G2
Iris longipetala	coast iris	Iridaceae	perennial rhizomatous herb	4.2	S3.2	G3
Lasthenia conjugens	Contra Costa goldfields	Asteraceae	annual herb	1B.1	S1	G1
Leptosiphon acicularis	bristly leptosiphon	Polemoniaceae	annual herb	4.2	S3.2	G3
Leptosiphon ambiguus	serpentine leptosiphon	Polemoniaceae	annual herb	4.2	S3.2	G3
Leptosiphon grandiflorus	large-flowered leptosiphon	Polemoniaceae	annual herb	4.2	S3.2	G3
Lessingia hololeuca	woolly-headed lessingia	Asteraceae	annual herb	3	S3	G3
Lessingia micradenia var. glabrata	smooth lessingia	Asteraceae	annual herb	1B.2	S2	G2T2
Malacothamnus aboriginum	Indian Valley bush-mallow	Malvaceae	perennial deciduous shrub	1B.2	S2	G2
Malacothamnus arcuatus	arcuate bush-mallow	Malvaceae	perennial evergreen shrub	1B.2	S2.2	G2Q
Malacothamnus hallii	Hall's bush-mallow	Malvaceae	perennial evergreen shrub	1B.2	S2	G2Q

Micropus amphibolus	Mt. Diablo cottonweed	Asteraceae	annual herb	3.2	S3.2?	G3
Microseris paludosa	marsh microseris	Asteraceae	perennial herb	1B.2	S2.2	G2
Monardella undulata	curly-leaved monardella	Lamiaceae	annual herb	4.2	S3.2	G3
Monolopia gracilens	woodland woolythreads	Asteraceae	annual herb	1B.2	S2S3	G2G3
Penstemon rattanii var. kleei	Santa Cruz Mountains beardtongue	Plantaginaceae	perennial herb	1B.2	S2.2	G4T2
Pentachaeta bellidiflora	white-rayed pentachaeta	Asteraceae	annual herb	1B.1	S1	G1
Piperia candida	white-flowered rein orchid	Orchidaceae	perennial herb	1B.2	S2	G3?
Plagiobothrys chorisianus var. chorisianus	Choris' popcorn-flower	Boraginaceae	annual herb	1B.2	S2.2	G3T2Q
Plagiobothrys diffusus	San Francisco popcorn -flower	Boraginaceae	annual herb	1B.1	S1	G1Q
Plagiobothrys glaber	hairless popcorn-flower	Boraginaceae	annual herb	1A	SH	GH
Polygonum hickmanii	Scotts Valley polygonum	Polygonaceae	annual herb	1B.1	S1	G1
Ranunculus lobbii	Lobb's aquatic buttercup	Ranunculaceae	annual herb	4.2	S3.2	G4
Rosa pinetorum	pine rose	Rosaceae	perennial shrub	1B.2	S2.2	G2Q
Senecio aphanactis	chaparral ragwort	Asteraceae	annual herb	2B.2	S2	G3?
Sidalcea malachroides	maple-leaved checkerbloom	Malvaceae	perennial herb	4.2	S3S4.2	G3G4
Silene verecunda ssp. verecunda	San Francisco campion	Caryophyllaceae	perennial herb	1B.2	S2.2	G5T2
Streptanthus albidus ssp. albidus	Metcalf Canyon jewel-flower	Brassicaceae	annual herb	1B.1	S1	G2T1
Streptanthus albidus ssp. peramoenus	most beautiful jewel-flower	Brassicaceae	annual herb	1B.2	S2.2	G2T2
Trifolium buckwestiorum	Santa Cruz clover	Fabaceae	annual herb	1B.1	S2	G2
Trifolium hydrophilum	saline clover	Fabaceae	annual herb	1B.2	S2	G2
Tropidocarpum capparideum	caper-fruited tropidocarpum	Brassicaceae	annual herb	1B.1	S1	G1

Suggested Citation

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United States Department of the Interior

FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office
2800 Cottage Way, Room W-2605
Sacramento, California 95825

July 9, 2013

Document Number: 130709100533

Michael Wood
Wood Biological Consulting Inc.
65 Alta Hill Way
Walnut Creek, CA 94595

Subject: Species List for 100 Prosopect Avenue Los Gatos

Dear: Mr. Wood

We are sending this official species list in response to your July 9, 2013 request for information about endangered and threatened species. The list covers the California counties and/or U.S. Geological Survey 7½ minute quad or quads you requested.

Our database was developed primarily to assist Federal agencies that are consulting with us. Therefore, our lists include all of the sensitive species that have been found in a certain area *and also ones that may be affected by projects in the area*. For example, a fish may be on the list for a quad if it lives somewhere downstream from that quad. Birds are included even if they only migrate through an area. In other words, we include all of the species we want people to consider when they do something that affects the environment.

Please read Important Information About Your Species List (below). It explains how we made the list and describes your responsibilities under the Endangered Species Act.

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be October 07, 2013.

Please contact us if your project may affect endangered or threatened species or if you have any questions about the attached list or your responsibilities under the Endangered Species Act. A list of Endangered Species Program contacts can be found here.

Endangered Species Division

TAKE PRIDE IN AMERICA

U.S. Fish & Wildlife Service
Sacramento Fish & Wildlife Office

Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Counties and/or U.S.G.S. 7 1/2 Minute Quads you requested

Document Number: 130709100533

Database Last Updated: September 18, 2011

Quad Lists

Listed Species

Invertebrates

Euphydryas editha bayensis
- bay checkerspot butterfly (T)
- Critical habitat, bay checkerspot butterfly (X)

Fish

Eucyclogobius newberryi
- tidewater goby (E)

Hypomesus transpacificus
- delta smelt (T)

Oncorhynchus kisutch
- coho salmon - central CA coast (E) (NMFS)

Oncorhynchus mykiss
- Central California Coastal steelhead (T) (NMFS)
- Central Valley steelhead (T) (NMFS)
- Critical habitat, Central California coastal steelhead (X) (NMFS)

Oncorhynchus tshawytscha
- Central Valley spring-run chinook salmon (T) (NMFS)
- winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense
- California tiger salamander, central population (T)
- Critical habitat, CA tiger salamander, central population (X)

Rana draytonii
- California red-legged frog (T)
- Critical habitat, California red-legged frog (X)

Birds

Brachyramphus marmoratus
- Critical habitat, marbled murrelet (X)
- marbled murrelet (T)

Rallus longirostris obsoletus
- California clapper rail (E)

Sternula antillarum (=Sterna, =albifrons) browni
- California least tern (E)

Mammals

Vulpes macrotis mutica

San Joaquin kit fox (E)

Plants

Ceanothus ferrisae

Coyote ceanothus (E)

Chorizanthe robusta var. robusta

robust spineflower (E)

Dudleya setchellii

Santa Clara Valley dudleya (E)

Holocarpha macradenia

Critical habitat, Santa Cruz tarplant (X)

Santa Cruz tarplant (T)

Lasthenia conjugens

Contra Costa goldfields (E)

Streptanthus albidus ssp. albidus

Metcalf Canyon jewelflower (E)

Quads Containing Listed, Proposed or Candidate Species:

SANTA TERESA HILLS (407A)
LOS GATOS (407B)
LAUREL (407C)
LOMA PRIETA (407D)
CASTLE ROCK RIDGE (408A)
SAN JOSE WEST (427C)
SAN JOSE EAST (427D)
CUPERTINO (428D)

County Lists

No county species lists requested.

Key:

(E) *Endangered* - Listed as being in danger of extinction.

(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.

(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.

(NMFS) Species under the Jurisdiction of the National Oceanic & Atmospheric Administration Fisheries Service. Consult with them directly about these species.

Critical Habitat - Area essential to the conservation of a species.

(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.

(C) *Candidate* - Candidate to become a proposed species.

(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.

(X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological

Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online Inventory of Rare and Endangered Plants.

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list. See our Protocol and Recovery Permits pages.

For plant surveys, we recommend using the Guidelines for Conducting and Reporting Botanical Inventories. The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

> Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal consultation with the Service.

  During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our Map Room page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. More info

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6520.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be October 07, 2013.

APPENDIX D

FEASIBILITY GEOLOGIC AND GEOTECHNICAL HAZARDS EVALUATION AND PEER REVIEW

CORNERSTONE EARTH GROUP

Type of Services	**Updated Feasibility Geologic and Geotechnical Hazards Evaluation**
Project Name	**Sisters of Holy Names of Jesus and Mary**
Location	**100 and 200 Prospect Avenue Los Gatos, California**
Client	**Sisters of Holy Names of Jesus and Mary**
Client Address	**P.O. Box 398 Marylhurst, Oregon**
Project Number	**440-1-4**
Date	**July 15, 2013**

Prepared by **Laura C. Knutson, P.E., G.E.**
Principal Engineer
Geotechnical Project Manager

Craig S. Harwood, P.G., C.E.G.
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CORNERSTONE EARTH GROUP

TABLE OF CONTENTS

Type of Services	**Updated Feasibility Geologic and Geotechnical Hazards Evaluation**
Project Name	**Sisters of Holy Names of Jesus and Mary**
Location	**100 and 200 Prospect Avenue Los Gatos, California**

SECTION 1: INTRODUCTION

This geotechnical feasibility evaluation was prepared for the sole use of Sisters of Holy Names of Jesus and Mary (Sisters) for their property located at 100 and 200 Prospect Avenue in Los Gatos, California. The purpose of this study was to evaluate the existing subsurface conditions and develop an opinion regarding potential geotechnical concerns that could impact the potential redevelopment/development of the site. The preliminary geotechnical recommendations contained in this report are for your forward planning, cost estimating, and preliminary site design. For our use, we were provided with the following documents:

- An electronic copy of the site topographic map prepared by RBF Consultants, dated February 2011.
- An electronic copy of the "Tentative Map, Sisters of the Holy Names, Town of Los Gatos," prepared by RBF Consultants, dated March 19, 2013.

1.1 PROJECT DESCRIPTION

We understand that the Sisters site consists of one hillside parcel off Prospect Avenue in Los Gatos, as shown in the Vicinity Map, Figure 1. The Assessor Parcel Number (APN) is 529-44-005.

The existing site improvements include two main convent buildings and several support structures, as shown in the Site Plan and Geologic Map, Figure 2A. It is desired to evaluate the existing site and improvements with respect to potential redevelopment/development of the site. At this time, the Sisters of the Holy Names are planning to obtain a tentative map to subdivide the property into 17 single-family residential lots, as shown in Figure 2B, Proposed Tentative Map.

1.2 SCOPE OF SERVICES

Our scope of services was presented in our proposals dated January 20, 2011, and February 28 and July 9, 2013, and consisted of a literature review, air photo review, and a geologic site reconnaissance to evaluate geologic and geotechnical hazards and engineering properties of the subsurface soils, performance of several shallow hand auger borings, as well as preparation of this report. Brief descriptions of our literature reviews and site reconnaissance are presented below.

1.3 METHODS OF INVESTIGATION

1.3.1 Literature Review

Published geologic maps were researched and reviewed for this investigation and are listed in the "References" section of this report.

1.3.2 Site Reconnaissance and Geologic Mapping

Our engineering geologist performed a site reconnaissance on February 4, 2011 to map the aerial extent of geologic deposits, and obtain other details regarding the site geologic conditions and potential geologic and geotechnical hazards at and immediately adjacent to the site. On March 6, 2013 we returned to the site to review any potential changes to the site conditions. No changes to the site conditions were observed. The results of the reconnaissance and mapping are discussed in the following sections.

1.3.3 Site Exploration

On July 10, 2013 our engineering geologist returned to the site to perform seven shallow hand auger borings along the western property boundary to further delineate the contact between the Santa Clara and Franciscan mélange formations.

1.4 ENVIRONMENTAL SERVICES

Cornerstone Earth Group also provided environmental services for this project, including a Phase 1 site assessment; environmental findings and conclusions are provided under separate covers.

SECTION 2: REGIONAL SETTING

2.1 GEOLOGICAL SETTING

The site is located on the northeast flank of the Santa Cruz Mountains, within the Coast Ranges geomorphic province of California, that stretches from the Oregon border nearly to Point Conception. In the San Francisco Bay area, most of the Coast Ranges has developed on a basement of tectonically mixed Cretaceous- and Jurassic-age (70- to 200-million years old) rocks of the Franciscan Complex. Younger sedimentary and volcanic units locally cap these

basement rocks. Still younger surficial deposits that reflect geologic conditions of the last million years or so cover most of the Coast Ranges.

Movement on the many splays of the San Andreas Fault system has produced the dominant northwest-oriented structural and topographic trend seen throughout the Coast Ranges today. This trend reflects the boundary between two of the Earth's major tectonic plates: the North American plate to the east and the Pacific plate to the west. The San Andreas Fault system extends from the San Gregorio Fault near the coastline to the Coast Ranges-Central Valley blind thrust at the western edge of the Great Central Valley, as shown on the Regional Fault Map, Figure 3. The San Andreas Fault is the dominant structure in the system, nearly spanning the length of California, and capable of producing the highest magnitude earthquakes. Many other subparallel or branch faults within the San Andreas system are equally active and nearly as capable of generating large earthquakes. Right-lateral movement dominates on these faults but an increasingly large amount of thrust faulting resulting from compression across the system is now being identified also.

Bedrock exposed in the Los Gatos Quadrangle is characterized by two basement assemblages that have been juxtaposed by the San Andreas Fault (McLaughlin and others, 2001). Southwest of the San Andreas Fault is the Salinian Terrane, a basement assemblage of granitic to gabbroic intrusive rocks with roof pendants of high-temperature metamorphic rocks. Northeast of the San Andreas Fault is a composite Mesozoic basement assemblage consisting of the Franciscan Complex, the Coast Range Ophiolite, and the Great Valley Sequence. McLaughlin and others (2001) further subdivide bedrock sequences in the area into individual fault-bound bedrock structural blocks based on contrasting stratigraphic sequences and geologic histories of the basement assemblages and overlying Tertiary rocks. McLaughlin and others (2001) suggest that these faults are attenuation faults that developed within the older Coast Range Fault system during uplift and unroofing of the underlying Franciscan Complex. These bounding faults, which include the Aldercroft, Soda Springs and Sierra Azul faults, partially extend into the interior of the Sierra Azul Block as well as into the adjacent New Almaden Block.

In terms of regional structural geology, the site is located within the New Almaden block, which is made up of two Franciscan terranes overlain by Miocene and younger strata. Within the map area, the contact between Franciscan and Miocene rocks is everywhere faulted, but north of the area the same Miocene rock unit lies unconformably on Franciscan rocks (McLaughlin, 1973). Since the middle Pleistocene, Miocene and younger strata of the New Almaden block locally have been tilted, overturned, compressed into open to tightly appressed folds, and repeated along northeast-vergent reverse faults of the Sargent, Berrocal, and Shannon fault zones. The block is bounded on the west by the Sargent fault and on the east by the San Jose fault of Brabb and Hanna (1981), a postulated fault beneath the surficial deposits of Santa Clara Valley.

More locally, the site is in an area where Santa Clara formation comformably overlies older mélange of the Permenante Terrane (Nolan & Associates, 1999; McLaughlin et al., 2001), as shown in the Vicinity Geologic Map, Figure 4. Just west of the site a Basalt of the Permenante Terrane is in fault contact (a pre-quaternary fault) with the mélange. No structural trends (bedding, joints, shears, etc.) are documented within the geologic formations in the immediate

area of the site on the regional geologic maps. Our site mapping revises somewhat the contact between the mélange and the overlying Santa Clara Formation (see Section 3, Site Conditions).

2.2 REGIONAL SEISMICITY

The San Francisco Bay area is one of the most seismically active areas in the Country. While seismologists cannot predict earthquake events, the U.S. Geological Survey's Working Group on California Earthquake Probabilities 2007 estimates there is a 63 percent chance of at least one magnitude 6.7 or greater earthquake occurring in the Bay Area region between 2007 and 2036. As seen with damage in San Francisco and Oakland due to the 1989 Loma Prieta earthquake that was centered about 50 miles south of San Francisco, significant damage can occur at considerable distances. Higher levels of shaking and damage would be expected for earthquakes occurring at closer distances.

The faults considered capable of generating significant earthquakes are generally associated with the well-defined areas of crustal movement, which trend northwesterly. The table below presents the State-considered active faults within 25 kilometers of the site.

Table 1: Approximate Fault Distances

Fault Name	Distance	
	(miles)	(kilometers)
Monte Vista-Shannon	0.3	0.5
Sargent-Berrocal	0.8	1.2
San Andreas (1906)	2.5	3.7
Hayward (Southeast Extension)	14.9	22.5

A regional fault map is presented as Figure 3, illustrating the relative distances of the site to significant fault zones.

SECTION 3: SITE CONDITIONS

3.1 SITE HISTORY AND AIR PHOTO REVIEW

The site has contained several residential structures and other ancillary buildings for nearly a century. In addition to residential use, the site has contained a fruit orchard. Aerial photos were reviewed spanning a period from 1963 to 1980. Additionally, we reviewed a Google Earth® image from October, 2009. The 1963 photos indicate the two large residence buildings for the center are present. The fields located just south of these buildings have received some minor grading but are otherwise open and undeveloped. The field located just northeast of the main buildings contains some orchard trees. There is an opening in the forest canopy showing some disturbance of the ground on the steep slope located outside of the property boundaries on the adjacent property west of the Seraphine building. Single-family residence present outside the property boundaries are downslope of these scars. A former flume location extends along a

graded path running parallel to the west and north property lines. By 1968 some placement of fill has occurred in the area of the present parking lot, at the southeast portion of the site. Some clearing of the forest and grading has occurred on the natural, forested slope located just beyond the property line northwest of the Seraphine building. By 1980 the present parking lot had been constructed. New houses exist just south of the south property line.

3.2 SURFACE DESCRIPTION AND TOPOGRAPHY

The approximately 10.3-acre site is located east of Highway 17 in the foothills of Los Gatos at the northeast flank of the Santa Cruz Mountains, Santa Clara County, California. The site is bounded by Prospect Avenue on the east and northeast and by residential parcels to the south, west and north. The site is located on a northerly trending spur ridge on the northeast flank of the Santa Cruz Mountains. Based on the topographic information provided, site grades range from about Elevation 608 feet at the highest point, down to about Elevation 550 feet along the western property line. The site is landscaped with shrubs, ornamental trees and lawns. Some cuts were required to make the grades for the two large residence buildings. The ground surface along the spine of the ridge (over the majority of the site) is generally very gently sloping in a variety of directions. On the west and north sides of the site the slopes become moderate (30%) to steep (50%). Slopes are generally gentle toward the south and east.

3.3 SITE GEOLOGY

Exposures of subsurface materials occur sparsely at the ground surface, and along a rough graded road that follows the west and north property lines. Santa Clara Formation ("QTsc") is exposed in the road cut near the west property line. Permanente Terrane Mélange ("fsrp") of the Franciscan Complex is exposed in a natural outcrop just beyond the west property line. The contact between these rock types can be inferred to lie between these outcrops but tends to follow slope contours due to the flat lying nature of the contact. Also inferred is that the Santa Clara formation forms a mantle over the underlying mélange and the contact between the two is nearly horizontal. This contact is located further west than is depicted on the published regional geologic maps already discussed. Where exposed, the Santa Clara Formation is a semiconsolidated clayey sand with gravel. The gravel is typically subrounded and medium to coarse. Where exposed, the mélange is massive, hard and blocky. Santa Clara Formation is exposed in the road cuts along College Avenue just northeast of the site.

Fill has been placed over these earth materials as part of previous mass grading and localized grading, and along the path of the former flume route. Localized accumulations of fill within the footprint of existing structures and adjacent to existing structures including retaining wall backfill are associated with most of the existing buildings on sloping portions of the site. These fills were not extensive enough to plot at the scale of our base map; however, these fills can be expected to be encountered during future site development activities and should be considered non-engineered. No changes in the site surface geologic conditions were noted during our site reconnaissance on March 6, 2013. We revisited the area of the northwest property line on July 9, 2013 in order to further define the aerial distribution of the Franciscan mélange, as discussed below.

The Santa Clara Formation occurs as a matrix of silty sand containing large subrounded cobbles which are exposed in cuts and also apparent as float on sloping portions of the site. As part of our recent site reconnaissance, our engineering geologist performed a series of hand auger borings along the former flume route that borders the west and northwest edge of the site. Our mapping and hand auger borings show that mélange intrudes slightly into the site at the joint property lines for Lot 15 and Lot 16. At this location the mélange consists of friable greywacke sandstone, which is exposed at and extends just above the cutslope of the former flume. We encountered the sandstone within the bottom portion of our hand auger HA-3, approximately five feet east of the former flume cut slope at that location. Other sparse outcrops of mélange just offsite occur as blocky, resistant outcrops at the ground surface. This mélange is similar in composition but are generally more cemented to a hard consistency. The relative aerial distribution of cutslope exposures, outcrops at the ground surface and float cobbles help in projecting the geologic contact along the former flume. This information and the earth materials encountered in our hand auger borings was used to project the contact along and generally just downslope of the western border of the site. We observed no other lithology within the mélange other than sandstone, such as serpentine or ultramafic rocks, and it is largely located just off site.

The aerial distribution of earth materials at the site are mapped on Figure 2A, Site Plan and Geologic Map.

3.4 GROUND WATER

Although a man-made pond is maintained on the subject site, we noted no evidence of springing activity on site. The site is not in an area known to have a laterally extensive ground water table (CGS, Los Gatos Quadrangle, 2002). Perched ground water conditions can typically be encountered seasonally.

Fluctuations in ground water levels can occur due to many factors including rain fall, irrigation, surface water and runoffs, and other factors not in evidence at the time our measurements were made.

SECTION 4: GEOLOGIC HAZARDS

4.1 FAULT RUPTURE

As discussed above, several significant faults are located within 25 kilometers of the site. The site is not located within a State-designated Alquist Priolo Earthquake Fault Zone, or a Santa Clara County Fault Hazard Zone. The site has been characterized with a moderate potential for fault rupture as shown on the Town of Los Gatos Fault Rupture Hazard Zone Map, reproduced in Figure 5. According to the scheme used in this map, the areas located within this zone are typically located with 400 to 500 feet of a mapped fault surface trace. Nolan and Associates (1999) show a pre-quaternary fault located just south of the site. This fault, located at College Avenue just offsite, juxtaposes Franciscan mélange on the north against Franciscan basalt on the south. This mapped fault does not break any geologic formation younger than the Franciscan Complex rock and may extend slightly into the site at its northern end. The Town of

Los Gatos “Fault, Lineament and Coseismic Deformation Map”, reproduced as Figure 6, shows no such features mapped at the site as a result of the 1989 Loma Prieta Earthquake. Schmidt et al., (1996) documented no evidence of damage (i.e., pavements breaks or utility pipe breaks) at the ground surface resulting from the 1989 Loma Prieta Earthquake. The nearest ground damage during that earthquake consisted of two gas lines located 1,200 feet southeast of the site, and a surface break in concrete pavement located approximately 1,100 feet northwest of the site. No damage was reported to have occurred at the site as a result of the 1989 Loma Prieta earthquake by the Sisters staff including, Sister Kathryn Ondreyco, Development Director, and Mr. Jose Diaz, Facilities Manager. As shown in Figure 6, no known surface expression of fault traces is thought to cross the site; therefore, fault primary surface rupture and coseismic slip hazard, in our opinion, is not considered to be a significant geologic hazard at the site.

4.2 ESTIMATED GROUND SHAKING

Moderate to severe (design-level) earthquakes can cause strong ground shaking, which is the case for most sites within the Bay Area. The “Seismic Shaking Hazards Map” contained within the town of Los Gatos General Plan Update map folio shows the site located within an area that could have a probabilistic peak horizontal ground acceleration of 0.80g (gravity) with a 10 percent chance of excedence in 50 years. This same map shows the majority of the site located within an area with a low potential for topographic amplification of seismic waves. The moderate to steep slopes near the northwest property line fall within the moderate potential zone and it is in this area that topographic amplification is likely to affect site response.

4.3 LIQUEFACTION POTENTIAL

The site is not located within a State-designated Liquefaction Hazard Zone (CGS, Los Gatos Quadrangle, 2002), as shown in Figure 7, or a Santa Clara County Liquefaction Hazard Zone (Santa Clara County, 2003).

During strong seismic shaking, cyclically induced stresses can cause increased pore pressures within the soil matrix that can result in liquefaction triggering, soil softening due to shear stress loss, potentially significant ground deformation due to settlement within sandy liquefiable layers as pore pressures dissipate, and/or flow failures in sloping ground or where open faces are present (lateral spreading) (NCEER 1998). Limited field and laboratory data is available regarding ground deformation due to settlement; however, in clean sand layers settlement on the order of 2 to 3 percent of the liquefied layer thickness can occur. Soils most susceptible to liquefaction are loose, non-cohesive soils that are saturated and are bedded with poor drainage, such as sand and silt layers bedded with a cohesive cap.

As discussed in the “Subsurface” section above, the site is mapped as underlain by Santa Clara Formation. Therefore, our screening of the site for liquefaction indicates a low potential for liquefaction, and is in general agreement with local mapping for the site by CGS and Santa Clara County.

4.4 LATERAL SPREADING

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. As failure tends to propagate as block failures, it is difficult to analyze and estimate where the first tension crack will form.

There are no open faces within 200 feet of the site where lateral spreading could occur and liquefaction is not considered to be a concern; therefore, in our opinion, the potential for lateral spreading to affect the site is low.

4.5 SEISMIC SETTLEMENT/UNSATURATED SAND SHAKING

Loose unsaturated sandy soils can settle during strong seismic shaking. As the site is underlain by Santa Clara Formation, which typically consists of stiff to very stiff clays and medium dense to dense sands, in our opinion, the potential for significant differential seismic settlement affecting the proposed improvements is low.

4.6 LANDSLIDING

The majority of the site is not located within a State-designated Earthquake-Induce Landslide Hazard Zone (CGS, Los Gatos Quadrangle, 2002), as shown in Figure 7. The seismic hazard mapping by Santa Clara County (2005) includes the whole site and the surrounding vicinity within their potential landslide hazard zone.

The Town of Los Gatos General Plan Update map folio shows the site located within three distinct slope stability hazard zones. The gently inclined portion of the site is within their “low” zone which is characterized as having a low potential for slope instability. Sloping (gently to moderately inclined) areas located in the southern portion of the site are located within their “low to moderate” hazard zone. The steep slopes located near the west property line are located within their “moderate to high” hazard zone. Moderate to locally steep slopes located near the northwest property line are located within their “moderate” hazard zone.

Our review of aerial photos indicates possible evidence of sliding on the steep slope located just beyond the west property line west of the Seraphine and Regional Office buildings (located with the “moderate to high” hazard zone). This is in the form of an anomalous opening in the forest canopy, as well as some disturbance at the ground surface (absence of vegetation versus the surrounding slope). This area is located on adjacent private property outside the site boundary and was not accessible to our personnel. We noted an area located approximately 100 feet northwest of the Seraphine and Regional Office buildings where anomalous stepped topography exists, which is associated with some past grading to create a pad. The colluvium and fill in this area appears to have experienced some accelerated downhill creep or minor sloughing. We observed no other evidence suggesting landsliding has occurred at the site.

The above-described areas of suspected instability are located in an area shown on the town of Los Gatos General Plan Update map folio described as “areas of potential debris flow hazard,” which includes the moderate to steep slopes located within approximately 140 feet from the west, northwest and north property lines. From review of the current likely building envelopes, all the proposed homes are located in more gently inclined areas and do not extend into these more steeply inclined slope areas. It should also be noted that these General Plan Update maps are interpretive (used as a general guide in planning purposes) and not based on site-specific data. Future site-specific, design-level studies will define the geologic hazard levels of these areas, which may be lower than the interpretive maps suggest. Due to the above described features and the zoning, future development at the subject site in any areas inclined more than gently should be based on a detailed geologic and geotechnical investigations that include subsurface investigation and slope stability analyses.

4.7 WEAK/EXPANSIVE SOILS

The town of Los Gatos General Plan Update map folio set shows the level to gently inclined portions of the site as located within their “moderate to high” shrink-swell potential zone. The steeper portions of the site are located within their “moderate” zone. In our experience with Santa Clara Formation materials, the clayey materials tend to have Plasticity Indices ranging from about 18 to 30, indicating moderate to high expansion potential to wetting and drying cycles.

4.8 NATURALLY-OCCURRING ASBESTOS (NOA)

Chrysotile and amphibole asbestos occur naturally in certain geologic settings in the Santa Clara Valley, most commonly in ultramafic rocks. The most common type of asbestos is chrysotile, which is commonly found in serpentinite rock formations. Serpentine is known to be one of the rock types present within Franciscan mélange. When disturbed by construction, grading, quarrying, or mining operations, asbestos-containing dust can be generated. Exposure to asbestos dust can result in lung cancer, mesothelioma, and asbestosis. In July 2001, the California Air Resources Board approved an Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining activities in areas where naturally-occurring asbestos (NOA) will likely be found and they provide requirements for dust mitigation measures and practices. In the Los Gatos area, NOA may be found in mountainous areas or areas of shallow bedrock that could be encountered during construction.

As discussed, natural (undisturbed) outcrops of Franciscan mélange were noted at the ground surface just west of the west property line, as well as encroaching onto the extreme western edge of the site in the area of Lots 15 and 16. All the outcrops observed, as well as the Franciscan mélange bedrock encountered in our hand auger HA-3 were sandstone materials. Serpentine was not observed in the project area. Therefore, it is unlikely that Franciscan mélange would be a source of NOA at the site.

4.9 UNDOCUMENTED FILLS

As already mentioned, fills occur at the site primarily associated with the earliest developed areas, located around residences and other outlier buildings around the west, northwest and north perimeter of the site. Information was not available regarding the preparation, placement, and compaction of these fills; therefore, they are considered to be undocumented. Due to the age of the fills, it is likely that these fills were not well compacted during placement. Some of these fills show evidence at the ground surface of containing manmade debris and are over steepened, and were not likely to have been provided with a base key. These fills slopes are subject to creep and settlement. There may also be depressed areas that contain fills resulting from demolition of older structures and backfilling in these areas.

4.10 TSUNAMI/SEICHE

The terms tsunami or seiche are described as ocean waves or similar waves usually created by undersea fault movement or by a coastal or submerged landslide. Tsunamis may be generated at great distance from shore (far field events) or nearby (near field events). Waves are formed, as the displaced water moves to regain equilibrium, and radiates across the open water, similar to ripples from a rock being thrown into a pond. When the waveform reaches the coastline, it quickly raises the water level, with water velocities as high as 15 to 20 knots. The water mass, as well as vessels, vehicles, or other objects in its path create tremendous forces as they impact coastal structures.

Tsunamis have affected the coastline along the Pacific Northwest during historic times. The Fort Point tide gauge in San Francisco recorded approximately 21 tsunamis between 1854 and 1964. The 1964 Alaska earthquake generated a recorded wave height of 7.4 feet and drowned eleven people in Crescent City, California. For the case of a far-field event, the Bay area would have hours of warning; for a near field event, there may be only a few minutes of warning, if any.

A tsunami or seiche originating in the Pacific Ocean would lose much of its energy passing through San Francisco Bay. Based on the study of tsunami inundation potential for the San Francisco Bay Area (Ritter and Dupre, 1972), areas most likely to be inundated are marshlands, tidal flats, and former bay margin lands that are now artificially filled, but are still at or below sea level, and are generally within 1½ miles of the shoreline. The site is approximately 18 miles inland from the San Francisco Bay shoreline, and is at least 500 feet above mean sea level. Therefore, the potential for inundation due to tsunami or seiche is considered low.

4.11 FLOODING

Based on our internet search of the Federal Emergency Management Agency (FEMA) flood map public database, the site is located within Zone X: areas with 0.2% chance of annual flooding.

The Association of Bay Area Governments has compiled a database of Dam Failure Inundation Hazard Maps (ABAG, 1995). The generalized hazard maps were prepared by dam owners as

required by the State Office of Emergency Services; they are intended for planning purposes only. Based on our review of these maps, the site is not located within a dam failure inundation area.

SECTION 5: CONCLUSIONS

5.1 SUMMARY

From a geotechnical viewpoint, potential redevelopment/development at the project site is feasible provided the items listed below are addressed in the home design. The preliminary recommendations that follow are intended for conceptual planning and preliminary design. A design-level geotechnical investigation should be performed once site development plans are prepared indicating where proposed structures are planned. The design-level investigation findings will be used to confirm the preliminary recommendations and develop detailed recommendations for design and construction. Descriptions of each geotechnical concern with brief outlines of our preliminary recommendations follow the listed concerns.

- Strong ground shaking
- Potential for slope instability
- Presence of undocumented fills
- Presence of moderately expansive soils

5.1.1 Strong Ground Shaking

Strong ground shaking is anticipated during moderate to severe earthquakes. All structures should be designed in accordance with recommendations contained in design-level geotechnical investigations, as well as current building codes.

5.1.2 Potential for Slope Instability

The ground surface along the spine of the ridge (over the majority of the site) is generally very gently sloping in a variety of directions. On the west and north sides of the site the slopes become moderate to steep. The gently inclined portion of the site is considered to have a low potential for slope instability. Sloping (gently to moderately inclined) areas located in the southern portion of the site are considered to have a low to moderate potential for slope instability. The steep slopes located near the west property line are considered to have a moderate to high potential for slope instability. Moderate to locally steep slopes located near the northwest property line are considered to have a moderate potential for slope instability.

As shown in Figure 2B, some of the residential building envelopes extend to the top of slope along the western side of the site, which are the areas of moderate to steep slopes. Geotechnical investigations and geologic hazards evaluations for these lots should include subsurface exploration and slope stability analyses to evaluate the potential for static and seismic slope instability. These investigations should include recommendations for mitigation, if

indicated. Mitigation measures could include at a minimum supporting the structures on deeper foundations, or other measures, as indicated.

5.1.3 Presence of Undocumented Fills

Undocumented fills occur at the site primarily associated with the earliest developed areas, located around residences and other outlier buildings around the west, northwest and north perimeter of the site. There may also be depressed areas that contain fills resulting from demolition of older structures. Some of these fills show evidence at the ground surface of containing manmade debris and are over steepened, and were not likely to have been provided with a base key. These fills slopes are subject to creep and settlement. Should the property be redeveloped in these areas (such as Lot 1 shown in Figure 2B), these fills should be removed and replaced as engineered fill where they occur within the footprints of new structures. Alternatively, new structures can be supported on deep foundations deriving their structural capacities from the underlying bedrock. Structural slabs would also be required, as well as designing the foundations to accommodate any lateral forces due to soil creep where the fills were placed on sloping ground.

5.1.4 Expansive Soils

As discussed, Santa Clara Formation clayey materials are typically moderately to highly expansive. Expansive soils can undergo significant volume change with changes in moisture content. They shrink and harden when dried and expand and soften when wetted. If structures are underlain by expansive soils it is important that foundation systems be capable of tolerating or resisting any potentially damaging soil movements. Slabs-on-grade should be supported on a section of non-expansive fill with a thickness appropriate to the PI of the surficial materials. In addition, it is important to limit moisture changes in the surficial soils by using positive drainage away from buildings as well as limiting landscaping watering. This design consideration should be addressed during preliminary and design-level geotechnical investigations, once development plans are prepared.

5.2 DESIGN-LEVEL GEOTECHNICAL INVESTIGATION

The preliminary recommendations contained in this feasibility study were based review of available subsurface information and our experience in the area with similar projects. As site conditions may vary significantly from the assumed conditions, we also recommend that we be retained to 1) perform a design-level geotechnical investigation, once detailed site development plans are available; 2) to review the geotechnical aspects of the project structural, civil, and landscape plans and specifications, allowing sufficient time to provide the design team with any comments prior to issuing the plans for construction; and 3) be present to provide geotechnical observation and testing during earthwork and foundation construction.

SECTION 6: EARTHWORK

Based on our feasibility evaluation, other than rework of undocumented fills in new structure areas, no unusual earthwork measures are anticipated for the main, gently sloping portion of the

site. Where structures are planned within areas of moderate to steep slopes, geotechnical investigations and geologic hazards evaluations should include subsurface exploration and slope stability analyses to evaluate the potential for static and seismic slope instability. These investigations should include recommendations for mitigation, if indicated. Mitigation measures could include at a minimum supporting the structures on deep foundations, construction of retaining walls, or earthwork measures.

SECTION 7: FOUNDATIONS

On a preliminary basis, new structures located within the main, gently sloping area of the site may be supported on shallow foundations, such as spread footings with slabs-on-grade, or mat foundations. Structures located within moderate to steep slope areas will likely need to be supported on deep foundations, such as drilled piers, with slabs capable of spanning unsupported between piers or grade beams.

SECTION 8: CONCRETE SLABS AND PEDESTRIAN PAVEMENTS

We anticipate the Santa Clara Formation clayey materials will typically be moderately to highly expansive. Conventional interior slabs-on-grade used in conjunction with shallow footings, as well as exterior flatwork, should be supported on a layer non-expansive fill (NEF) appropriate to the Plasticity Index (PI) to reduce the potential for slab damage due to soil heave.

SECTION 9: LIMITATIONS

This report, an instrument of professional service, has been prepared for the sole use of Sisters of Holy Names of Jesus and Mary (Sisters) specifically to support the redevelopment evaluation for the Sisters site in Los Gatos, California. The opinions, conclusions, and preliminary recommendations presented in this report have been formulated in accordance with accepted geotechnical engineering practices that exist in Northern California at the time this report was prepared. No warranty, expressed or implied, is made or should be inferred.

Preliminary recommendations in this report are based upon the soil and ground water conditions encountered during our limited subsurface exploration. Preparation of a design-level investigation is anticipated to provide additional information and refine the preliminary recommendations presented herein. If variations or unsuitable conditions are encountered during the construction phase, Cornerstone must be contacted to provide supplemental recommendations, as needed.

The Sisters may have provided Cornerstone with plans, reports and other documents prepared by others. The Sisters understand that Cornerstone reviewed and relied on the information presented in these documents and cannot be responsible for their accuracy.

Cornerstone prepared this report with the understanding that it is the responsibility of the owner or his representatives to see that the recommendations contained in this report are presented to other members of the design team and incorporated into the project plans and specifications,

and that appropriate actions are taken to implement the geotechnical recommendations during construction.

Conclusions and recommendations presented in this report are valid as of the present time for the development as currently planned. Changes in the condition of the property or adjacent properties may occur with the passage of time, whether by natural processes or the acts of other persons. In addition, changes in applicable or appropriate standards may occur through legislation or the broadening of knowledge. Therefore, the conclusions and recommendations presented in this report may be invalidated, wholly or in part, by changes beyond Cornerstone's control. This report should be reviewed by Cornerstone after a period of three (3) years has elapsed from the date of this report. In addition, if the current project design is changed, then Cornerstone must review the proposed changes and provide supplemental recommendations, as needed.

An electronic transmission of this report may also have been issued. While Cornerstone has taken precautions to produce a complete and secure electronic transmission, please check the electronic transmission against the hard copy version for conformity.

Recommendations provided in this report are based on the assumption that Cornerstone will be retained to provide observation and testing services during construction to confirm that conditions are similar to that assumed for design, and to form an opinion as to whether the work has been performed in accordance with the project plans and specifications. If we are not retained for these services, Cornerstone cannot assume any responsibility for any potential claims that may arise during or after construction as a result of misuse or misinterpretation of Cornerstone's report by others. Furthermore, Cornerstone will cease to be the Geotechnical-Engineer-of-Record if we are not retained for these services.

SECTION 10: REFERENCES

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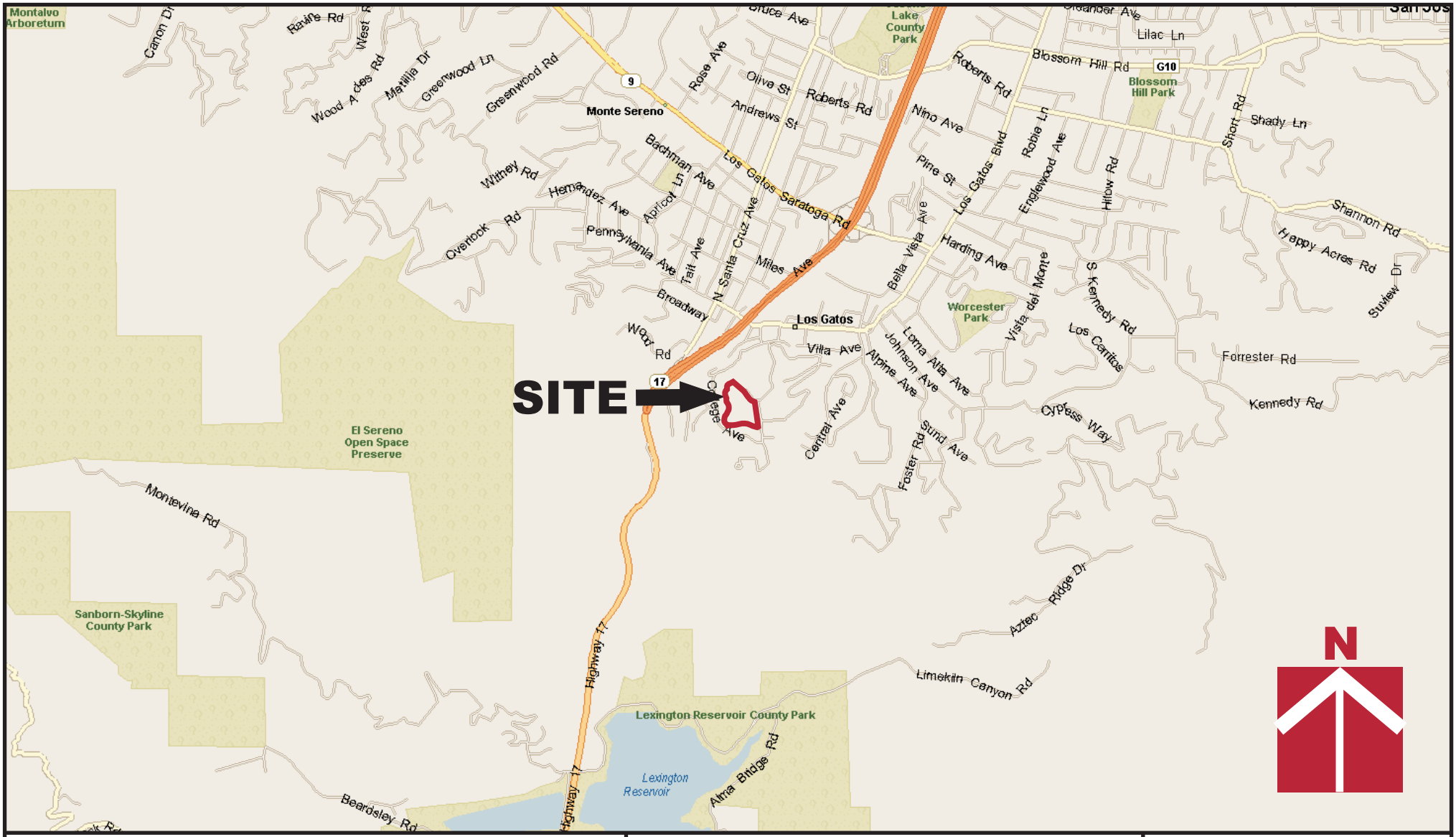
Aerial Photos Reviewed

Date	Flight	Frames	Scale	Type
October 13, 1963	CIV-7DD	7, 8, 9	1:20,000	vertical black & white
June 16, 1965	SCL-45	42, 43, 45	1:12,000	vertical black & white
June 14, 1968	GS-VBZR-2	67, 68	1:30,000	vertical black & white
October 29, 1980	GS-VEZR-2	176, 177	1:24,000	vertical black & white



CORNERSTONE EARTH GROUP

Vicinity Map

Sisters of the Holy Names
of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, CA

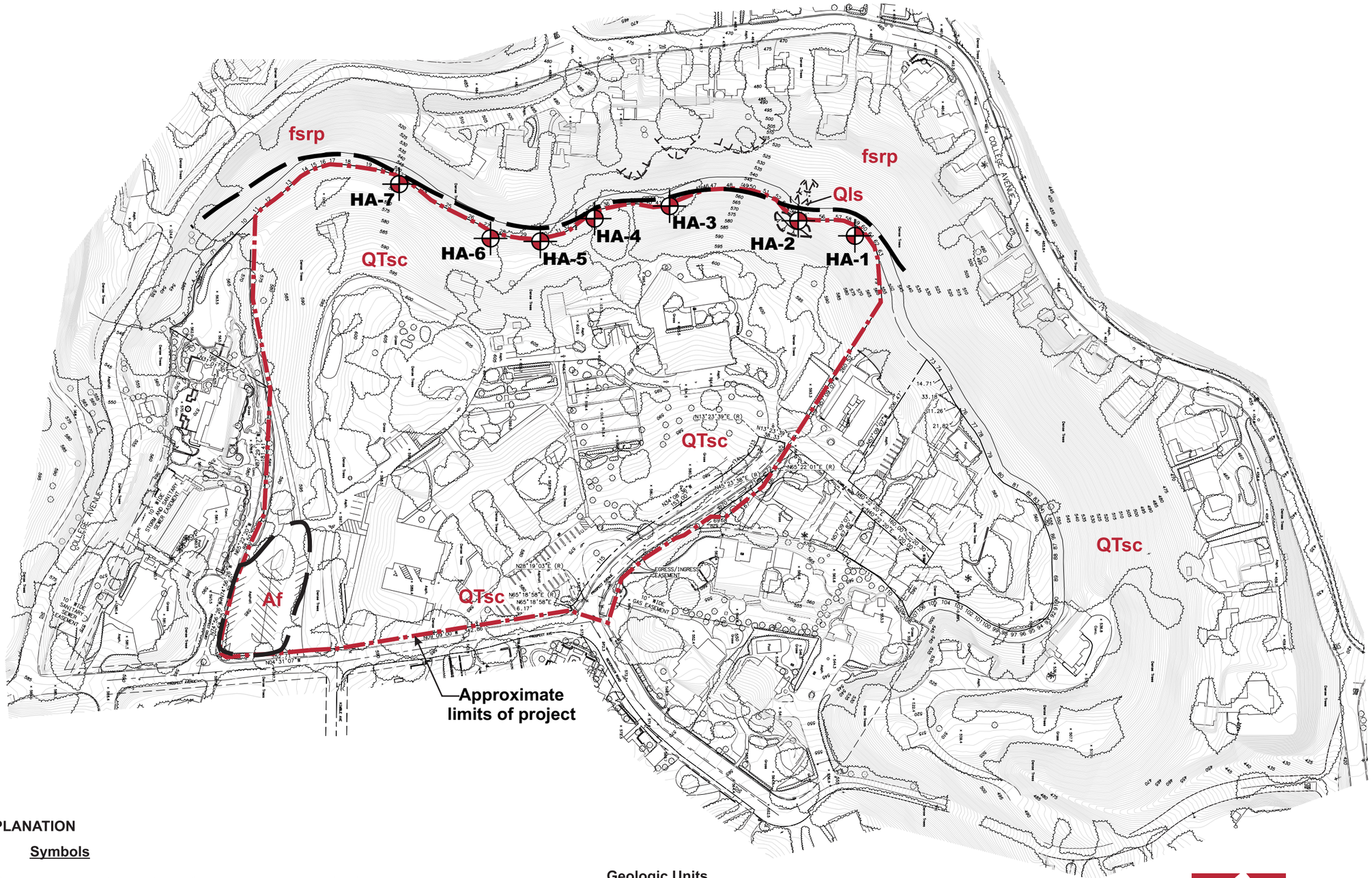
Project Number	440-1-4
Figure Number	Figure 1
Date	March 2013
Drawn By	MGV, RRN

Site Plan and Geologic Map

Sisters of the Holy Names of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, CA

Project Number	Figure Number	Drawn By
440-1-4	Figure 2A	MGV, RRN
Date		
July 2013		

CORNERSTONE EARTH GROUP



EXPLANATION

Symbols

- Approximate location of hand-auger boring (HA)
- Geologic contact (dashed where approximate, dotted where concealed)
- Cutslope
- Fillslope
- Landslide/shallow slump
- Possible landslide scar (based on aerial photo interpretation)

Geologic Units

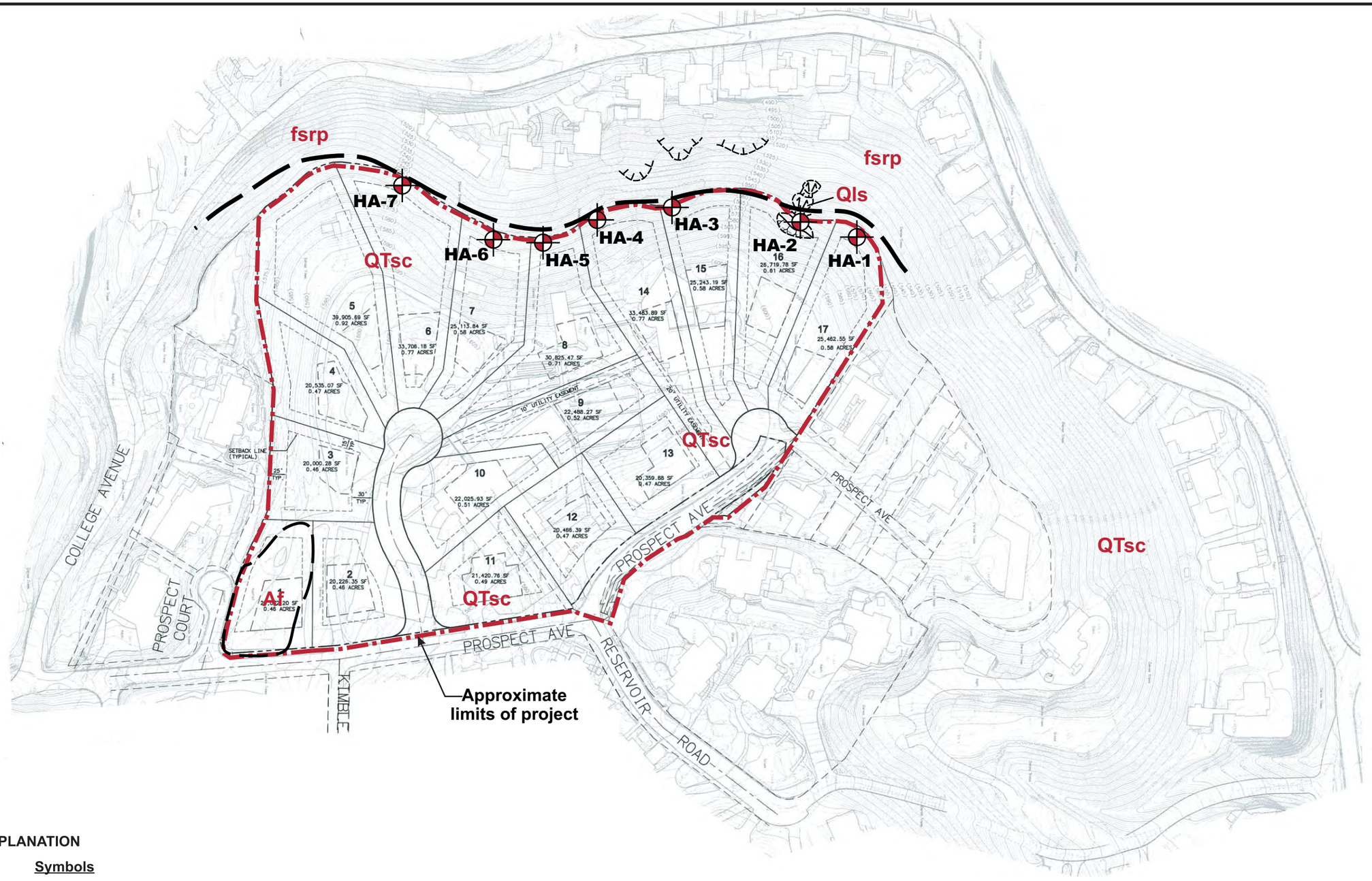
Af	Artificial fill
QTsc	Santa Clara Formation (Plio-pleistocene); unsorted to poorly sorted coarse fluvial gravel and fanglomerate
fsrp	Melange of the Permanente Terrane (upper and lower Cretaceous)

N

0 150 300

APPROXIMATE SCALE (FEET)

Notes: Base by RBF Consultants, 2011.



EXPLANATION

Symbols

- Approximate location of hand-auger boring (HA)
- Geologic contact (dashed where approximate, dotted where concealed)
- Cutslope
- Fillslope
- Landslide/shallow slump
- Possible landslide scar (based on aerial photo interpretation)

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Notes: Base by RBF Consultants, 2013.

N

0 150 300

APPROXIMATE SCALE (FEET)

Base by RBF, "Tentative Map", revised date: 3/19/2013

Project Number 440-1-4

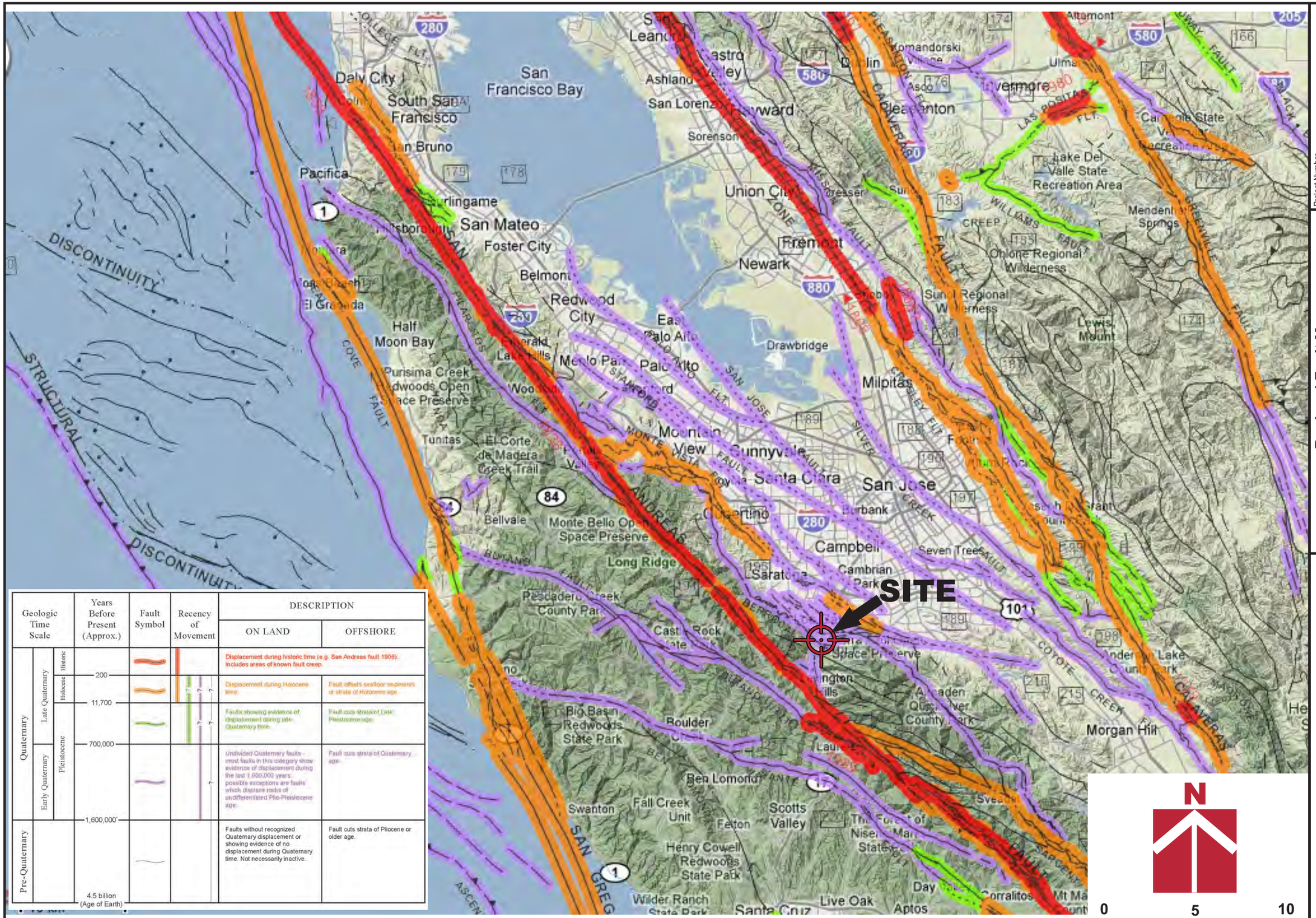
Figure Number Figure 2B

Drawn By MGV, RRN

Date July 2013

Proposed Site Development
Sisters of the Holy Names of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP



Base by California Geological Survey - 2010 Fault Activity Map of California (Jennings and Bryant, 2010)

Project Number: 440-1-4

Figure Number: Figure 3

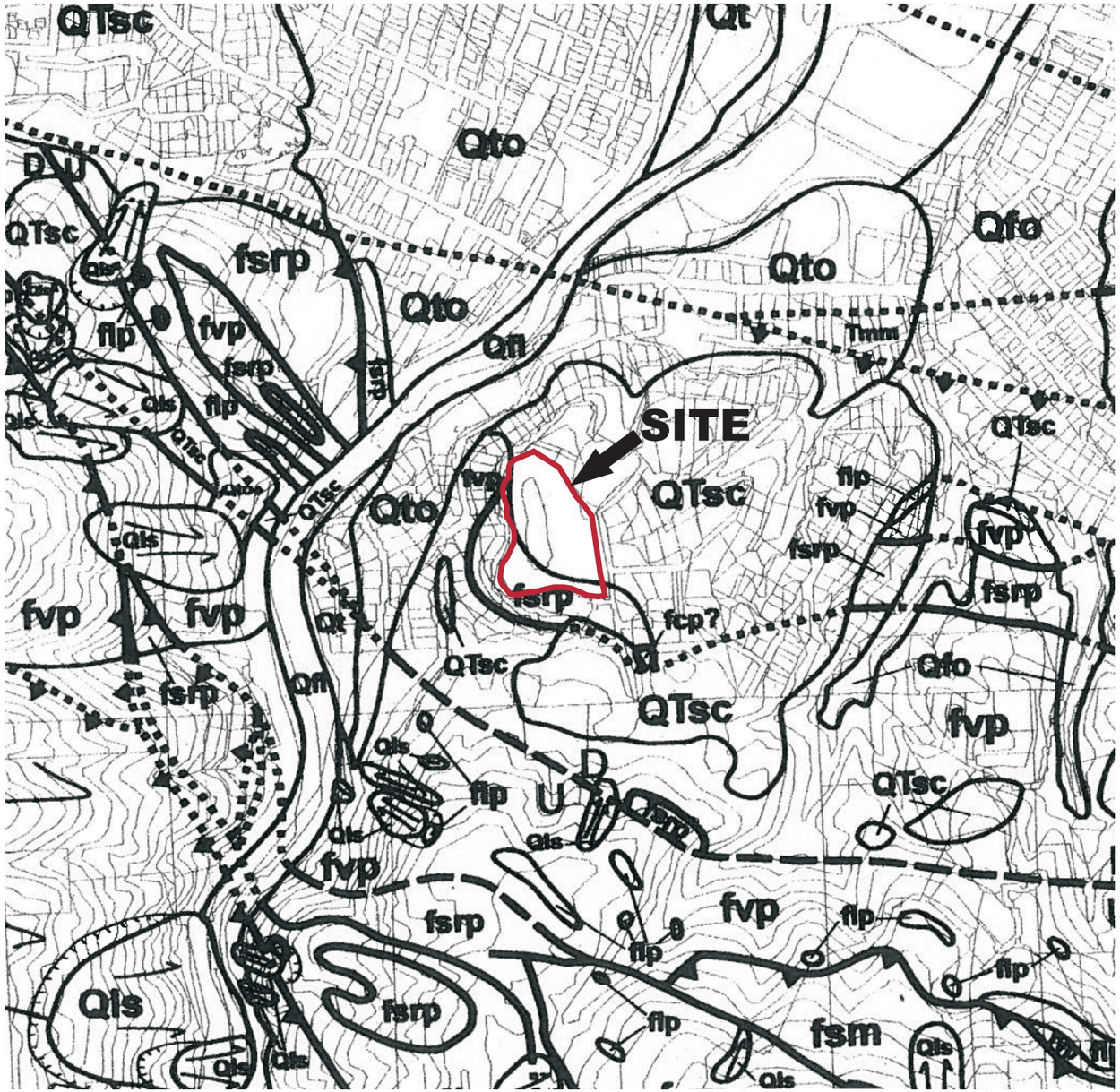
Date: March 2013

Drawn By: RRN

Regional Fault Map

Sisters of the Holy Names of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP



EXPLANATION

- Qfl — MODERN FLUVIAL DEPOSITS (HOLOCENE) - Poorly- to well-sorted sandy silt, silty sand, and sand or sandy gravel with minor cobbles.
- Qls — LANDSLIDE DEPOSITS (HOLOCENE AND PLEISTOCENE) -Unconsolidated rock debris, colluvium, and intact masses of rock, displaced downslope by gravity.
- Qal — UNDIFFERENTIATED ALLUVIUM (HOLOCENE AND LATE PLEISTOCENE) - Unconsolidated gravel, sand, and silt deposited by streams.
- Qt — YOUNGEST FLUVIAL TERRACE DEPOSITS (HOLOCENE) - Unconsolidated to weakly consolidated, fluvial, bouldery to pebbly gravel, sand, and silt.
- Qf — YOUNGEST ALLUVIAL FAN DEPOSITS (HOLOCENE) - Poorly sorted, dense, sandy or gravelly clay.
- Qto — OLDER FLUVIAL TERRACE DEPOSITS (PLEISTOCENE) - Unconsolidated to weakly consolidated, fluvial, bouldery to pebbly gravel, sand and silt, dissected and elevated above present base level.
- Qfo — OLDER ALLUVIAL FAN DEPOSITS (PLEISTOCENE) - Dense, gravelly and clayey sand or clayey gravel.
- QTsc — SANTA CLARA FORMATION (PLIOCENE AND PLEISTOCENE) - Unsorted to poorly sorted coarse fluvial gravel and fanglomerate.

Contact, dashed where approximate, dotted where concealed

U / D — Fault, dashed where approximate, dotted where concealed queried where uncertain. U and D denote up and down-thrown blocks.

Thrust fault, barbs on upper plate

Synclinal axis

Landslide headscarp

Qls — Landslide mass, arrows indicate direction of movement.

- Tmm — MONTEREY SHALE (MIDDLE MIOCENE) - Mudstone, porcelanite, and cherty porcelanite.
- Tmt — TEMBLOR SANDSTONE (OLIGOCENE TO MIDDLE MIOCENE) - Massive to thick bedded sandstone, with minor mudstone, conglomerate, and dacitic tuff.
- Tmv — Dacitic tuff, tuff breccia, and intrusive rocks.

COAST RANGE OPHIOLITE (UPPER TO MIDDLE(?) JURASSIC)

- Jos — Serpentinite. Undifferentiated partially to highly serpentinized ultramafic rocks.
- sc — Siliceous, mercury bearing carbonates.

CENTRAL BELT OF THE FRANCISCAN COMPLEX (LOWER EOCENE (?) TO UPPER CRETACEOUS)

PERMANENTE TERRANE (UPPER AND LOWER CRETACEOUS)

- flp — Limestone.
- fcp — Chert.
- fvp — Basalt.
- fsrp — Melange.

BALD MOUNTAIN-EL SOMBROSO TERRANE (LOWER JURASSIC TO UPPER CRETACEOUS)

- fsm — Metasandstone.
- fcm — Radiolarian chert.
- fvm — Basalt.
- fsrm — Melange.

N

0 800 1600

APPROXIMATE SCALE (FEET)

Notes: Base map provided by Nolan Associates, January 1999.

Project Number 440-1-4

Figure Number Figure 4

Drawn By MGV, RRN

Date March 2013

Vicinity Geologic Map

Sisters of the Holy Names of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP

EXPLANATION

Town of Los Gatos Sphere of Influence

INTERPRETATION

LOW
- Areas outside recognized fault zones, with no concentrations of photo lineaments or evidence of widespread coseismic deformation

MODERATE
- Areas within 400-500 feet of probable fault traces mapped as dashed or dotted lines
- Areas containing concentrated clusters of mapped aerial photo lineaments
- Areas with widespread evidence of coseismic deformation caused by the 1989 Loma Prieta Earthquake

NOTE: More than one of the above mentioned criteria occurring in a single area typically constitutes a HIGH fault rupture hazard rating

HIGH
- Areas within 400-500 feet of recognized, undashed fault traces
- Areas with widespread evidence of coseismic deformation that correspond with concentrated aerial photo lineaments and /or recognized fault zones

Notes: Base map provided by Nolan Associates, January 1999

N

0 800 1600

APPROXIMATE SCALE (FEET)

Fault Rupture Hazard Map

Sisters of the Holy Names of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, CA

Project Number	Figure Number	Date	Drawn By
440-1-4	Figure 5	March 2013	MGV, RRN

CORNERSTONE EARTH GROUP

EXPLANATION

Town of Los Gatos Sphere of Influence

Fault trace, dashed where uncertain, dotted where concealed1

Lineation indicative of faulting. Interpreted from aerial photograph analysis2
(v=vegetation; t=tonal; ld=Linear depression; lf=linear front; s=saddle)

Concentration of coseismic ground deformation3

REFERENCES

1. ... the Los Gatos 7.5' Quadrangle, Santa Clara and Santa Cruz Counties: U.S. Geological Survey Open File Report 91-595

2. Hitchcock C.S., et. al, 1994, Geomorphic Investigation of Deformation Along the Northern Margin of the Santa Cruz Mountains: William Lettis Associates, Inc.; NEHRP Award Number 1434-92-G-...

3. Haugerud, R.A., and Ellen, S. D., 1990, Coseismic ground deformation along the northeast margin ... Santa Cruz mountains: U.S. Geological Survey Open File Report 90-274

Notes: Base map provided by Nolan Associates, January 1999

N

0 800 1600

APPROXIMATE SCALE (FEET)

Fault, Lineament & Coseismic Deformation Map

Sisters of the Holy Names of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, CA

Project Number	Figure Number	Date	Drawn By
440-1-4	Figure 6	March 2013	MGV, RRN

CORNERSTONE EARTH GROUP

MAP EXPLANATION

Zones of Required Investigation:

Liquefaction

Areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Earthquake-Induced Landslides

Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

N

0 1600 3200

APPROXIMATE SCALE (FEET)

Notes: Base map provided by U.S. Geological Survey, Los Gatos Quandrangle, September 2002.

State Seismic Hazard Zones Map

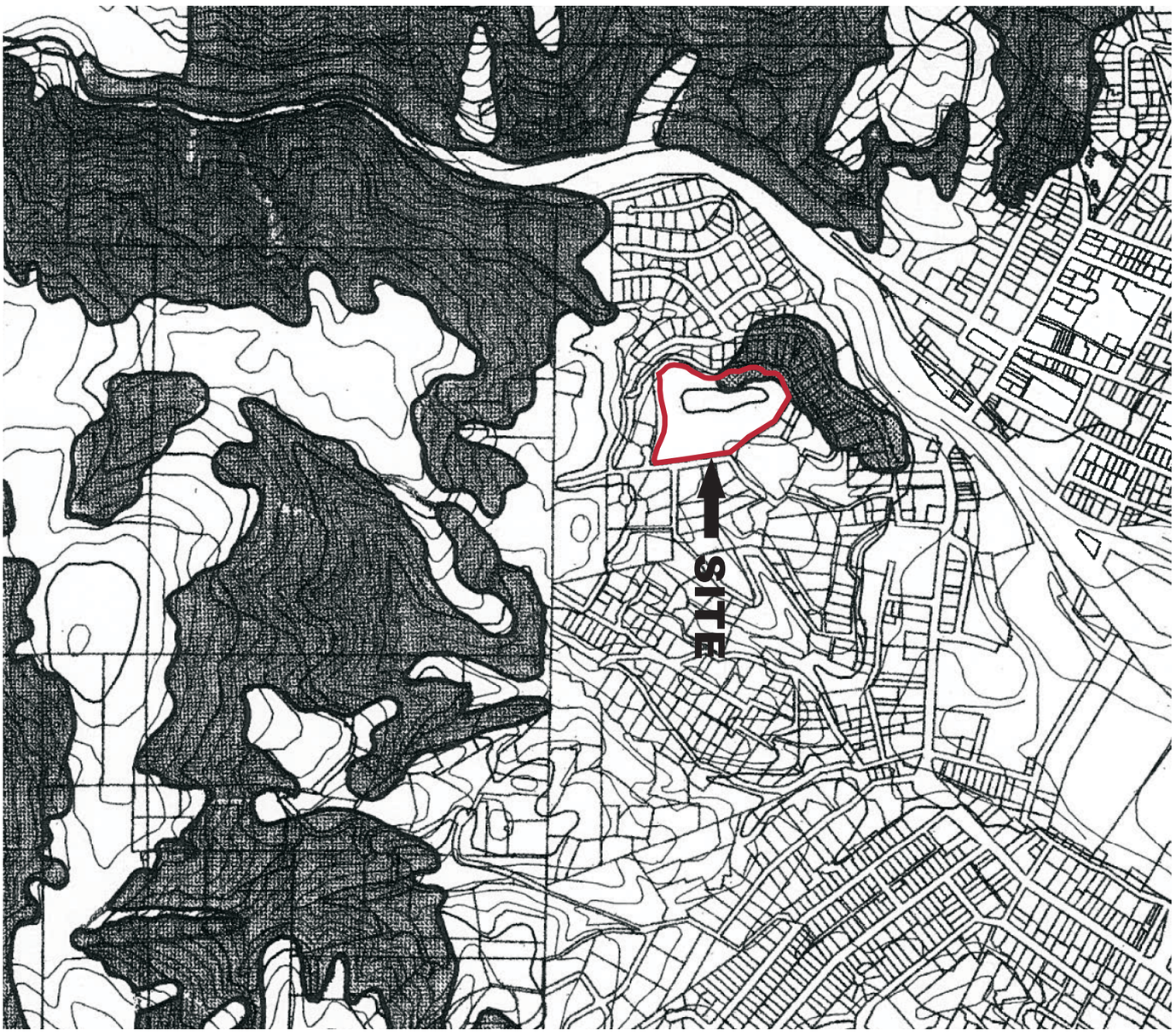
Sisters of the Holy Names of Jesus and Mary

100 and 200 Prospect Avenue

Los Gatos, CA

CORNERSTONE EARTH GROUP

Project Number	Figure Number	Date	Drawn By
440-1-4	Figure 7	March 2013	MGV, RRN



EXPLANATION

Town of Los Gatos Sphere of Influence

Areas of potential debris flow hazard

APPROXIMATE SCALE (FEET)

0

800

1600

N

CORNERSTONE EARTH GROUP

Debris Flow Hazard Map

Sisters of the Holy Names of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, CA

Project Number: 440-1-4

Figure Number: Figure 8

Date: March 2013

Drawn By: MGV, RRN

May 3, 2013

Project 0084491510

Ms. Trang Tu-Nguyen
Town of Los Gatos
Parks and Public Works
41 Miles Avenue
Los Gatos, California 95031

Subject: **Peer Review – Feasibility Geologic and Geotechnical Hazards Evaluation and Plans**
Sisters of Holy Names of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, California

References:

1. RBF Consulting, dated March 26, 2013. Plans: Civil Plans, 8 Sheets – Vesting Tentative Tract Map by Sisters of the Holy Names, Los Gatos, California.
2. Cornerstone Earth Group, March 27, 2013. Feasibility Geologic and Geotechnical Hazards Evaluation, Sisters of the Holy Names of Jesus and Mary, 100 and 200 Prospect Avenue, Los Gatos, California, 16 pages.

Dear Ms. Tu-Nguyen:

At your request, AMEC Environment & Infrastructure, Inc. (AMEC) has performed a review of References 1 and 2. This letter is based on our review of References 1 and 2 and pertinent published and unpublished reports and maps, and presents the results of our review. AMEC has not visited the site.

GENERAL COMMENTS

The irregular-shaped, developed property is located off Prospect Avenue, in the hillsides southeast of downtown Los Gatos. Existing improvements include two convent buildings and several support structures. The proposed project consists of the demolition of the existing improvements and the subdivision of the property into 17 single-family residential lots. The proposed lots will be accessed off the Prospect Avenue cul-de-sac and a new cul-de-sac off prospect Avenue. The proposed development will be constructed in three phases.

The property consists of a north-trending spur ridge. Elevations range from about 608 feet to 550 feet. Steeper slopes on the west and north are moderate (30%) to steep (50%). Conceptual building envelopes are located off steep slopes. The property is graded (cuts and fills) to accommodate the existing improvements. Proposed Lo1 I is essentially underlain by fill (Reference 2, Figure 2B. The planned new residences will be served by existing public utilities.

The property is underlain by Santa Clara Formation deposits, overlying Franciscan Complex mélange of the Permanente Terrane. The contact between the Santa Clara Formation deposits

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and Franciscan Complex volcanic rocks is located approximately along the western boundary of the property. No subsurface exploration was performed as part of the feasibility evaluation, and the presence (likely) distribution, and properties of surficial deposits (soils and colluvium), the distribution and properties of existing fill, properties of the Santa Clara Formation and Franciscan Complex bedrock, and the nature of groundwater are unknown. In general, claystone/mudstone units within the Santa Clara Formations, and fills derived for these units, may be expansive. A man-made pond is present of the property.

No landslides are mapped on the property except in the westernmost portion of proposed Lot 16. The property is not located in a potential earthquake-induced landslide zone or potential liquefaction zone, although there is a mapped area of potential earthquake-induced landslide zone just to the northeast of the northeast property line (CGS, 2002).

No active/potentially active faults are mapped traversing the property. The closed such mapped faults are traces of the Monte Vista-Shannon fault zone located approximately 0.5 km to the north and south of the property. The potential for fault ground rupture on the property is considered to be low. The property will, however, be subjected to very strong to violent ground shaking from a future large earthquake on the San Andreas fault zone, or on one of the other major active faults in the region. Seismic design parameters per 2010 CBC or applicable CBC will appliy.

CONCLUSIONS AND RECOMMENDATIONS

Based on our review, Reference 2 is a reasonable and appropriate feasibility-level hazards evaluation of the property, and we concur with Cornerstone that the proposed project is feasible provided that the proposed project is designed and constructed in accordance with the findings and recommendations to be developed in a design-level geotechnical investigation(s) yet to be conducted. It is not known at this time if lot specific design-level geotechnical investigation reports will be prepared (17 reports), if design-level geotechnical investigation reports will be prepared for each phase (3 reports), or if a single design-level geotechnical investigation report will be prepared for the entire subdivision (1 report).

CLOSURE

We hope this provides you with the information you require at this time. Please call if you have any questions. Future review of design-level geotechnical investigation report(s) and plans by AMEC is required.

Sincerely yours,
AMEC Environment & Infrastructure, Inc.

Robert H. Wright, PhD, PG, CEG 962
Senior Engineering Geologist

James B. French, PE, GE 2018
Principal Engineer

rhw/jbf/ldu
X:\8000s\8449.000\8449.151\Peer Review Ltr_8449.151_100 Prospect Avenue.docx

APPENDIX E

STORMWATER MANAGEMENT PLAN
AND
REVIEW OF PROJECT SUBMITTALS FOR
COMPLIANCE WITH STORMWATER REQUIREMENTS

Sisters of the Holy Names
Preliminary Stormwater Management Plan

Date: September 2013

Prepared for:

Sisters of the Holy Names
P.O. Box 398
Marylhurst, OR 97036

Prepared by:

RBF CONSULTING
A Baker Company

500 YGNACIO VALLEY ROAD, SUITE 270
WALNUT CREEK, CALIFORNIA 94596-3647
925.906.1460 ■ FAX 925.906.1465 ■ www.RBF.com

The Sisters of the Holy Names Preliminary Stormwater Management Plan was prepared under the direction of:

9-18-13

Jeffery S. Crump, P.E.
RBF Consulting, Civil Engineer

SISTERS OF THE HOLY NAMES PRELIMINARY STORMWATER MANAGEMENT PLAN

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1.0 INTRODUCTION

1.1 Purpose

The purpose of this Preliminary Stormwater Management Plan (Plan) is to document the existing drainage and stormwater conditions within the proposed Sisters of the Holy Names project and to demonstrate the potential impacts and mitigation measures to be used for the proposed tentative map subdivision. The Plan addresses peak flow rates, stormwater quality, and hydromodification management. The key objectives of this Plan are to demonstrate that flow rates would not increase as a result of the proposed project and that stormwater quality requirements emphasizing use of Low Impact Development (LID) techniques in site design are met.

1.2 Setting

The project site is located on Prospect Avenue in the Town of Los Gatos (Town) and covers approximately 10.3 acres. A vicinity map is shown in Figure 1.

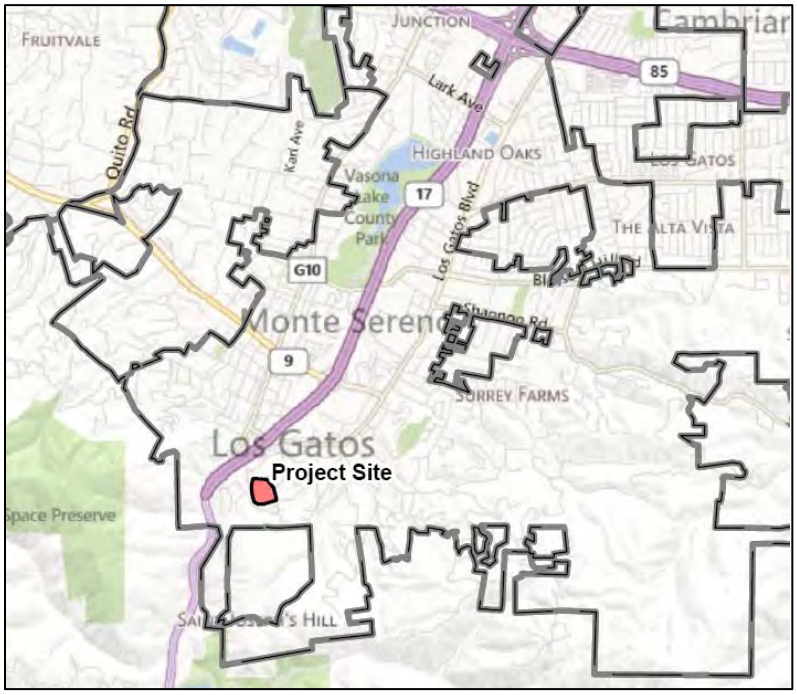


Figure 1. Vicinity Map showing Project Site

The existing site use is developed with 6 buildings that are used as residences, care facilities and administrative offices with parking areas and driveways throughout the site. There is extensive onsite landscaping and tree coverage. The proposed plan is to subdivide the main parcel into 17 lots on which single family homes may be built and demolish the existing buildings. This report discusses the potential impact

on stormwater runoff resulting from the redevelopment of the subdivided lots. Because the current phase of the proposed project includes only conceptual building sizes and locations, conservative assumptions have been made to demonstrate that the development is feasible. Building areas are defined as the largest potential building footprint.

The site is subject to applicable drainage criteria from the Town of Los Gatos and the NPDES requirements of the Santa Clara Valley Urban Runoff Pollution Prevention Program (SCVURPPP). Guidance has been taken from the Town of Los Gatos C.3 Data Form, Section 3 of the Town of Los Gatos Engineering standards, the 2007 Santa Clara County Drainage Manual, and the April 2012 SCVURPPP C.3 Stormwater Handbook

2.0 SITE CONDITIONS DRAINAGE PATTERNS

The proposed project site is located on a hilltop that drains west and south toward College Avenue and north along Reservoir Road. The project site is part of the Los Gatos Creek watershed.

2.1 Existing Site Conditions

Soils data showing the SCS hydrologic soil groups were obtained from the Natural Resource Conservation Service (NRCS). Table 1 describes the hydrologic soil groups.

Table 1: NRCS SCS Hydrologic Soil Groups

Hydrologic Soil Group	Description
A	Soils having a low runoff potential due to high infiltration rates. These soils consist primarily of deep, well-drained sands and gravel.
B	Soils having a moderately low runoff potential due to moderate infiltration rates. These soils consist primarily of moderately deep to deep, moderately well-drained to well-drained soils with moderately fine to moderately coarse textures.
C	Soils having a moderately high runoff potential due to slow infiltration rates. These soils consist primarily of soils in which a layer exists near the surface that impedes the downward movement of water, or soils with moderately fine to fine texture.
D	Soils having a high runoff potential due to very slow infiltration rates. These soils consist primarily of clays with high water tables, soils with a claypan or clay layer at or near the surface, and shallow soils over nearly impervious parent material.

The project site consists of about 75% hydrologic soil group C and 25% hydrologic soil group D. A map of the hydrologic soil group from the NRCS web soil survey is included in the Appendix. Type D soil generally covers the areas of existing and proposed development. To be conservative, it is assumed that all parts of the site that have the potential to be developed have hydrologic soil group D, while the undeveloped portions of the site, mostly on the hillside and with dense tree coverage are hydrologic soil group C.

The existing site has significant portions of tree coverage, especially on the hillsides. Existing trees will be maintained where feasible and using the recommendations of

the site arborist as guidance. Detailed descriptions of which trees may be removed as part of future home construction are included with the Tentative Map application package drawings.

2.2 Existing Site Drainage Patterns

The FEMA Flood Insurance Rate Map (FIRM) shows that the site as flood zone designation of Zone X (shaded). The Zone X (shaded) designation corresponds to the 0.2% chance or 500-year storm. As the site is not within the vicinity of any streams or creeks, this flood zone designation was most likely applied using approximate methods and is due primarily to flood risk from incident rainfall.

The Town has indicated that there is an area of flooding that occurs at the existing drain inlets on Prospect Road near the intersection of Reservoir Road. The delineated flood limits are generally within Prospect Road. An as-built drawing with the indicated flood limit is included in the Appendix.

The site is divided into 3 drainage areas. The majority of the site is collected in an onsite drainage system or flows overland toward a drain inlet on Prospect Avenue. Detailed as-builts of the onsite drainage system are not available, but it is assumed that all flows from the developed portion of the site (Drainage Area 1) flow towards the inlets on Prospect Avenue. Hillside portions of the site sheet flow to the former San Jose Water Company Flume right of way. Along this former right of way, a drain inlet collects a portion of the site runoff at the edge of the lot with APN 529-44-007. The Drainage Area that is tributary to the hillside drain inlet is designated as Drainage Area 3. The existing conditions drainage areas are shown in Exhibit 1. The drainage areas, including the impervious areas located in each drainage area are included in Table 2.

Table 2. Existing conditions drainage areas

Drainage Area	Description	Pervious Area	Impervious Area (sq ft)	Total Area (sq ft)	Percent Impervious
1	Developed Area draining to Prospect Road	153,641	126,943	280,584	45.2%
2	Hillside Area draining to former flume right of way	132,289	2,594	134,882	1.9%
3	Hillside Area draining to existing drain inlet	32,935	-	32,935	0.0%
	Total	*318,864*	*129,537*	*448,401*	*28.9%*

2.3 Proposed Drainage Patterns

The project proposes to demolish the existing buildings, driveways, and parking areas and subdivide the parcel in 17 lots. The lots will be designated as single family homes. Potential building areas on each lot have been defined to show a maximum building envelope on which a structure could be built. Final approval of individual buildings will be subject to review and approval by the Town of Los Gatos and will be subject to applicable design regulations. To be conservative, the conceptual building footprints included in this plan are maximum areas that may be built and will generate the maximum stormwater impacts for this study. Actual stormwater impacts may be less than estimated in this Plan.

A new road will also be constructed that intersects with Prospect Avenue. The end of Prospect Avenue will include the addition of a cul-de-sac to serve the proposed lots.

The proposed drainage areas are shown in Exhibit 2. The drainage areas, including the estimated future impervious areas located in each drainage area are included in Table 3.

Table 3. Proposed conditions drainage areas

	Drainage Area	Pervious Area	Impervious Area (sq ft)	Total Area (sq ft)	Percent Impervious	Impervious Area to Pervious Area Ratio	2:1 Impervious to Pervious Ratio Exceeded?
Existing Condition Drainage Area 1	1a	13,405	5,169	18,574	27.8%	0.39	No
	2	15,140	5,087	20,226	25.1%	0.34	No
	3a	5,382	3,796	9,178	41.4%	0.71	No
	4a	4,292	4,802	9,095	52.8%	1.12	No
	5a	4,690	6,087	10,776	56.5%	1.30	No
	6a	4,628	5,586	10,213	54.7%	1.21	No
	7a	4,953	4,631	9,584	48.3%	0.94	No
	8a	12,829	7,334	20,163	36.4%	0.57	No
	9	13,698	7,525	21,223	35.5%	0.55	No
	10	15,803	6,223	22,026	28.3%	0.39	No
	11	16,205	5,147	21,352	24.1%	0.32	No
	12	15,482	4,985	20,466	24.4%	0.32	No
	13	14,801	5,559	20,360	27.3%	0.38	No
	14a	9,084	6,976	16,060	43.4%	0.77	No
	15a	7,654	6,337	13,990	45.3%	0.83	No
	16a	7,271	5,382	12,653	42.5%	0.74	No
	17a	3,572	4,015	7,587	52.9%	1.12	No
	New Road	-	12,993	12,992.	100.0%		
	Prospect Road	-	3,681	3,681.0	100.0%		
	Non-paved	3,672	-	3,672	0.0%		
	Subtotal	*168,886*	*111,315*	*283,873*	*39.2%*		
Drainage Area 2	5c	18,860	-	18,860	0.0%	0.00	No
	6b	23,728	-	23,728	0.0%	0.00	No
	7b	16,704	-	16,704	0.0%	0.00	No
	8b	11,928	-	11,928	0.0%	0.00	No
	14b	17,424	-	17,424	0.0%	0.00	No
	15b	11,253	-	11,253	0.0%	0.00	No
	16b	14,067	-	14,067	0.0%	0.00	No
	17b	17,647	-	17,647	0.0%	0.00	No
	Subtotal	*131,610*	-	*131,610*	*0.0%*		
Drainage Area 3	1b	1,498	-	1,498	0.0%	0.00	No
	3b	10,823	-	10,823	0.0%	0.00	No
	4b	11,440	-	11,440	0.0%	0.00	No
	5b	8,860	-	8,860	0.0%	0.00	No
	Subtotal	*32,620*	-	*32,620*	*0.0%*		
	Total	**333,117**	**111,315**	**448,104**	***24.8%***		

The proposed maximum impervious area is about 18,000 ft^2 less than the existing impervious area, which is about a 15% decrease in total impervious area.

2.3.1 Proposed Post-Construction Stormwater Controls

The project is subject to the NPDES requirements of the Bay Area Municipal Regional Permit (MRP) issued by the San Francisco Bay Regional Water Quality Control Board. Post-construction controls are required under Provision C.3 of the MRP. The C.3 Guidebook was used to determine post-construction stormwater controls for meeting the C.3 requirements.

Each lot will be self-treating to meet the C.3 requirements. Self-treating lots drain runoff from impervious surfaces such as rooftops, driveways, and other hardscape to pervious landscaped areas. The pervious areas will need to be sized to be at least 50% of the tributary impervious area and allow at least 3 inches of ponding.

By using self-retaining areas that are 3 inches deep, a total of about 12,000 ft^3 (0.27 acre-feet) of retention storage may be added onsite.

Tree credits may be applied according to the guidelines as found in section 4.5 of the C.3 manual. Credits for new trees may be applied to reduce the amount of effective impervious area that needs to be included in treatment measures. Tree credits for existing trees may also be applied by subtracting the proposed impervious square footage under the existing tree canopy from the effective impervious area that needs to be treated.

The new road and the new portion of Prospect Avenue will be treated using biotreatment stormwater facilities. At this phase of the project, the facilities are sized as 4% of the tributary impervious area. The biotreatment facilities will drain to 2 new storm drain inlets on the new road near the intersection of Prospect Avenue per the Town's standards for storm pipe installation. Conceptual stormwater treatment facilities are shown in Exhibit 3.

2.3.2 Hydromodification Requirements

Although the proposed project creates or replaces more than 1 acre of impervious area, the proposed project will not increase the net impervious area onsite and therefore will not be subject to hydromodification requirements.

3.0 HYDROLOGY AND HYDRAULIC ANALYSIS

The peak 10-year and 100-year flow rates for the pre-project and post-project conditions for each of the drainage areas were calculated to determine the potential impact of the proposed project.

3.1 Methodology

The Santa Clara Country Drainage Manual was used to define the methodology to be used to determine peak flow rates. Because the project is less than 200 acres, it is considered a "Small Drainage Area". While retention storage of the first 1 inch of rainfall is significant to the overall stormwater impact, this storage was ignored for purposes of peak flow estimation. This assumption was made to consider the possibility of the retention storage already filled with runoff from a storm event prior to the occurrence of the design storm event. Ignoring the on-lot retention storage for peak flow determination conservatively estimates the maximum peak flows during the design storm events.

The Rational Method was selected to calculate peak flow rates.

The rational method is shown in Equation 1.

Equation 1:

$Q = kCiA$

Where: Q = peak discharge (cfs)
k = 1.008
C = runoff coefficient (dimensionless)
i = design rainfall intensity for a duration equal to the time of concentration
A = drainage area (acres)

The selection of the runoff coefficient and the design rainfall intensity are described in Section 3.1.1 and 3.1.3, respectively.

3.1.1 Runoff Coefficient (C-value)

The runoff coefficient values were taken from Table 3.1 of the Santa Clara County Drainage Manual. The values that were used for the runoff analysis are shown in Table 4.

Table 4. Runoff Coefficients for Rational Formula from Santa Clara County Drainage Manual

Land Use	Runoff Coefficient
Shrub Land, Type C Soil	0.20
Medium Density Residential, Type D Soil	0.60
Low Density Residential, Type D Soil	0.45
Paved/Impervious	0.85

The existing conditions project area in Drainage Area 1 was considered to be medium density residential with a runoff coefficient of 0.60. Existing conditions Drainage Area 1 is 45% impervious. The existing conditions hillside and forested area of Drainage Areas 2 and 3 was considered "Shrub Land" with a runoff coefficient of 0.20. Forest is not listed as an option in the Santa Clara County Drainage Manual. However, because of the steepness of the hillside areas, a value of 0.20 was determined using engineering judgment to be an appropriate value for this area.

The proposed conditions lots are considered to be low density residential with a runoff coefficient of 0.45. For the proposed conditions, the hillside and forested areas are unchanged using a runoff coefficient of 0.20. The new roadway portions were considered as impervious using a runoff coefficient of 0.85.

3.1.2 Time of Concentration

The time of concentration for existing and proposed drainage areas was calculated using the Kirpich formula, which is shown in Equation 2. Note that the minimum time of concentration is 10 minutes.

Equation 2:

$$t_c = 0.0078\left(\frac{L^2}{S}\right)^{0.385} + 10$$

Where t_c = time of concentration (minutes)
L = maximum length of travel from headwater to outlet (feet)
S = effective slope along L (feet per foot)

For both existing and proposed conditions, all times of concentration were calculated to be between 10 and 13 minutes. A time of concentration of 10 minutes was assumed for all existing and proposed conditions watersheds as using the lowest time of concentration to generate the most conservative peak flow rates that results from the lower times of concentration.

3.1.3 10-year and 100-year Storm Event Intensities

The mean annual precipitation for the project site was determined to be 30 inches as shown on Figure A-2 of the Santa Clara County Drainage Manual, which is included in the Appendix of this report. Using the coefficients and methodology listed in the manual, the 10-minute 10-year peak intensity is 2.19 inches per hour and the 10-minute 100-year peak intensity is 3.21 inches per hour. These intensities were used for all existing and proposed conditions watersheds.

3.2 Existing Conditions Peak Flows

The existing conditions peak flow rates for the 10-year and 100-year events were calculated using the rational method (Equation 1). The 10-year and 100-year peak flow rates are given in Table 5.

Table 5. Existing conditions 10-year and 100-year peak flow rates

Drainage Area	Total Area (acres)	Runoff Coefficient	10-year peak flow rate (cfs)	100-year peak flow rate (cfs)
1	6.43	0.60	8.55	12.50
2	3.10	0.20	1.37	2.00
3	0.77	0.20	0.33	0.49
Total	*10.30*		10.25	14.99

Note that flow from Drainage Area 2 is not concentrated and the given flow values are estimates of the flow produced from the drainage area. Flow from Drainage Area 1 is concentrated at the existing drainage inlet on Prospect Road and flow from Drainage Area 3 concentrates and the existing hillside inlet.

3.3 Proposed Conditions Peak Flows

The proposed conditions peak flow rates for each lot are given in Table 6. The peak flow rates were grouped by the existing conditions watershed for comparison purposes. Note that peak flow rates decrease for the main developed area as a result of decreasing the impervious area. The total area draining to Drainage Areas 2 and 3 decreases slightly and is accompanied by slight decreases in peak flow rates.

Table 6. Proposed conditions 10-year and 100-year peak flow rates

	Drainage Area	Total Area (acres)	Runoff Coefficient	10-year peak flow rate (cfs)	100-year peak flow rate (cfs)
Existing Condition Drainage Area 1	1a	0.43	0.45	0.42	0.62
	2	0.46	0.45	0.46	0.68
	3a	0.21	0.45	0.21	0.31
	4a	0.21	0.45	0.21	0.30
	5a	0.25	0.45	0.25	0.36
	6a	0.23	0.45	0.23	0.34
	7a	0.22	0.45	0.22	0.32
	8a	0.43	0.45	0.43	0.63
	9	0.52	0.45	0.51	0.75
	10	0.51	0.45	0.50	0.74
	11	0.49	0.45	0.49	0.72
	12	0.47	0.45	0.47	0.68
	13	0.47	0.45	0.47	0.68
	14a	0.37	0.45	0.37	0.54
	15a	0.32	0.45	0.32	0.47
	16a	0.29	0.45	0.29	0.42
	17a	0.18	0.45	0.18	0.26
	New Road	0.30	0.85	0.56	0.82
	Prospect Road	0.08	0.85	0.16	0.23
	Non-paved Road Right-of-Way	0.08	0.45	0.08	0.12
	Subtotal	*6.52*		*6.83*	*9.99*
Existing Condition Drainage Area 2	5c	0.47	0.20	0.21	0.30
	6b	0.54	0.20	0.24	0.35
	7b	0.36	0.20	0.16	0.23
	8b	0.27	0.20	0.12	0.18
	14b	0.40	0.20	0.18	0.26
	15b	0.26	0.20	0.11	0.17
	16b	0.32	0.20	0.14	0.21
	17b	0.41	0.20	0.18	0.26
	Subtotal	*3.02*		1.34	1.95
Existing Condition Drainage Area 3	1b	0.03	0.20	0.02	0.02
	3b	0.25	0.20	0.11	0.16
	4b	0.26	0.20	0.12	0.17
	5b	0.20	0.20	0.09	0.13
	Subtotal	*0.75*		*0.33*	*0.48*
	Total	**10.29**		8.50	12.43

4.0 CONCLUSIONS

The proposed project results in a net decrease in impervious area of at least 18,000 ft^2. This will decrease peak flow rates for the design storms as well as total runoff volume. The self-treating areas on each of the proposed lots provides 3 inches of ponding depth for a total of up to 12,000 ft^3 of retained volume.

The impact of the decrease in impervious area and the increase in retention storage will not increase flows and volumes downstream from the project area and should result in lower peak flows and volumes downstream of the project site.

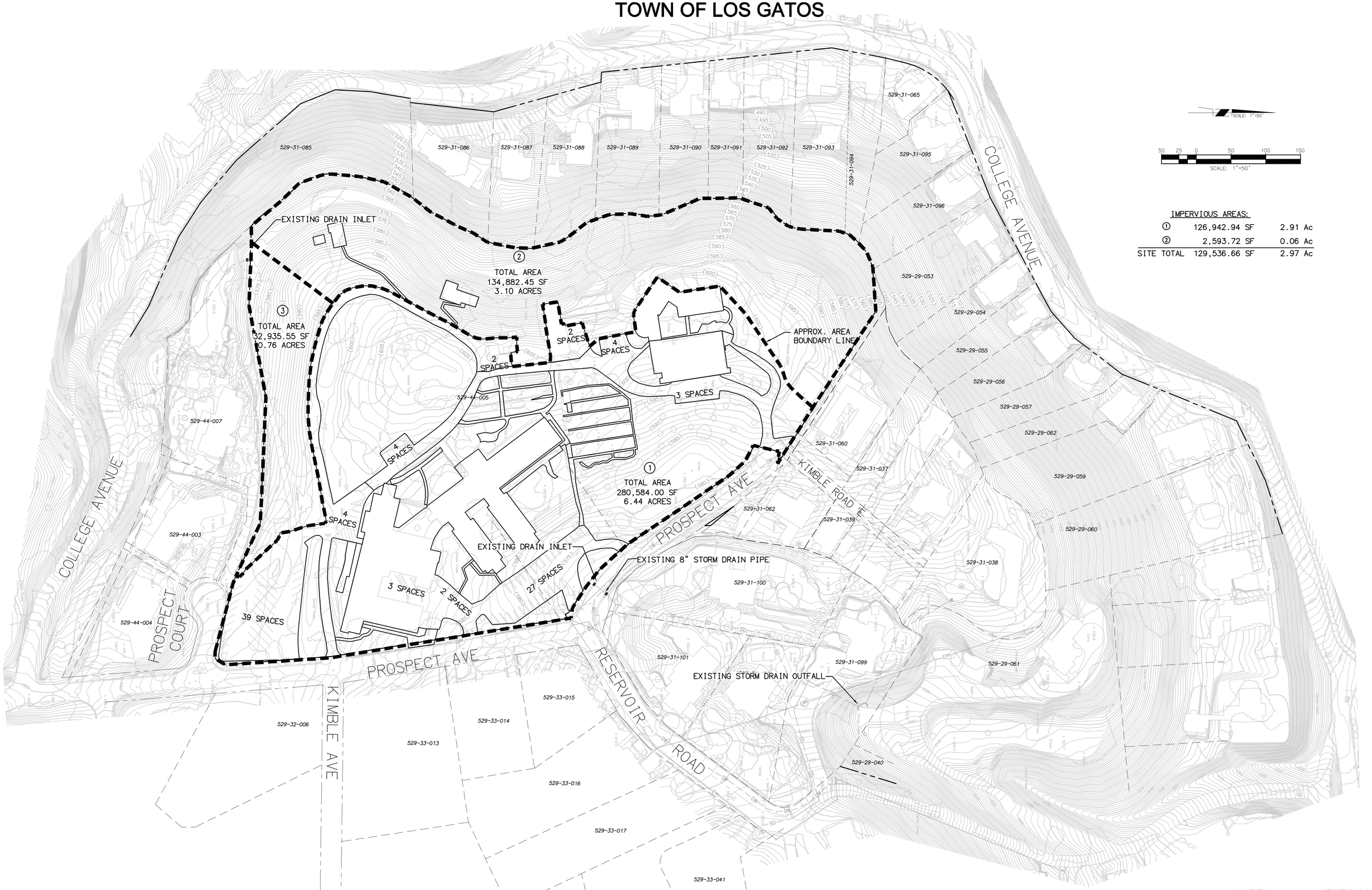
The flooding at Prospect Avenue will not increase and will likely decrease as a result of the additional pervious area and storage volume on the proposed lots. A detailed analysis of the flooding on Prospect Avenue is beyond the scope of this Plan.

The proposed project meets the NPDES C.3 requirements using self-treating areas for the lots and bioretention treatment facilities for the new roadways. The Town of Los Gatos C.3 Data Form is included in the Appendix.

Final approval for the individual buildings will be subject to the Town of Los Gatos design regulations and future architecture and site review and approval process. This Plan may serve as a basis for estimating the impact on stormwater from the building on individual lots.

Exhibits

EXHIBIT 1 -- EXISTING CONDITIONS DRAINAGE AREAS
SISTERS OF THE HOLY NAMES
TOWN OF LOS GATOS



IMPERVIOUS AREAS:

①	126,942.94 SF	2.91 Ac
②	2,593.72 SF	0.06 Ac
SITE TOTAL	129,536.66 SF	2.97 Ac

JN: 132531 REVISED: 3-19-2013

RBF CONSULTING
PLANNING ■ DESIGN ■ CONSTRUCTION
500 YGNACIO VALLEY ROAD, SUITE 300
WALNUT CREEK, CALIFORNIA 94596-3847
925.905.9460 • FAX 925.905.9455 • www.RBF.com

H:\PDATA\40100422\CADD\LAND\EXHIBITS\WRK\IMPERVIOUS-EXIST.DWG JCRUMP 6/24/13 5:06 pm

EXHIBIT 2 -- CONCEPTUAL PROPOSED DRAINAGE AREAS
SISTERS OF THE HOLY NAMES
TOWN OF LOS GATOS

50 25 0 50 100 150

SCALE: 1"=50'

SCALE: 1"=50'

IMPERVIOUS AREAS:

PUBLIC STREET	16,674 SF	0.38 Ac
CONCEPTUAL PRIVATE DRIVEWAY	23,794 SF	0.55 Ac
CONCEPTUAL BUILDING PAD	70,847 SF	1.62 Ac
SITE TOTAL	111,315 SF	2.55 Ac

(9) DRAINAGE AREA

NOTE:
CONCEPTUAL BUILDING PADS AND DRIVEWAYS. SPECIFIC BUILDING LOCATIONS AND DRIVEWAYS SUBJECT TO TOWN OF LOS GATOS DESIGN REGULATIONS AND FUTURE ARCHITECTURE AND SITE REVIEW AND APPROVAL PROCESS.

JN: 132531

REVISED: 3-19-2013

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EXHIBIT 3 STORMWATER CONCEPTUAL POTENTIAL TREATMENT AREAS EXHIBIT (FOR CEQA PURPOSES ONLY)
SISTERS OF THE HOLY NAMES
TOWN OF LOS GATOS

SCALE: 1"=50'

50 25 0 50 100 150

SCALE: 1"=50'

COLLEGE AVENUE

PROSPECT COURT

PROSPECT AVE

KIMBLE ROAD

SETBACK LINE (TYPICAL)

25' TYP.

15' TYP.

30' TYP.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

ESTIMATED C.3 STORMWATER TREATMENT SIZING

ROAD	TOTAL ADDED ROAD ROW AREA (SQ FT)	ESTIMATED POTENTIAL IMPERVIOUS AREA (SQ FT)	STORMWATER TREATMENT FACILITIES (SQ FT)
NEW ROAD	16,285	12,993	520
PROSPECT	4,291	3,681	147
TOTAL	20,576	16,674	667

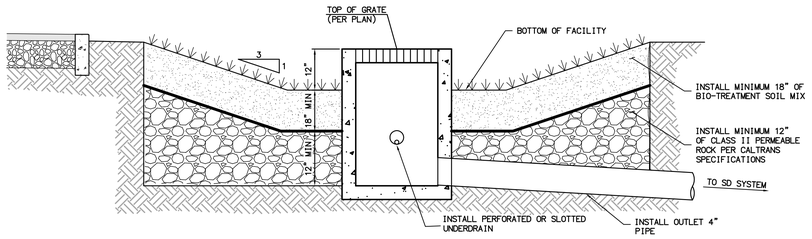
NOTE: STORMWATER TREATMENT FACILITIES ARE SIZED TO BE 4% OF IMPERVIOUS AREA

LEGEND

- LOT LINE
- SETBACK LINE
- CONCEPTUAL DEVELOPABLE AREA FOOTPRINT SPECIFIC BUILDING LOCATIONS SUBJECT TO TOWN OF LOS GATOS DESIGN REGULATIONS AND FUTURE ARCHITECTURE & SITE REVIEW AND APPROVAL PROCESS
- IMPERVIOUS PUBLIC ROAD AREA ADDED
- POTENTIAL STORMWATER TREATMENT FACILITY AREA

SETBACKS

FRONT	30'
SIDE	15'
BACK	25'



TYPICAL STORMWATER TREATMENT FACILITY

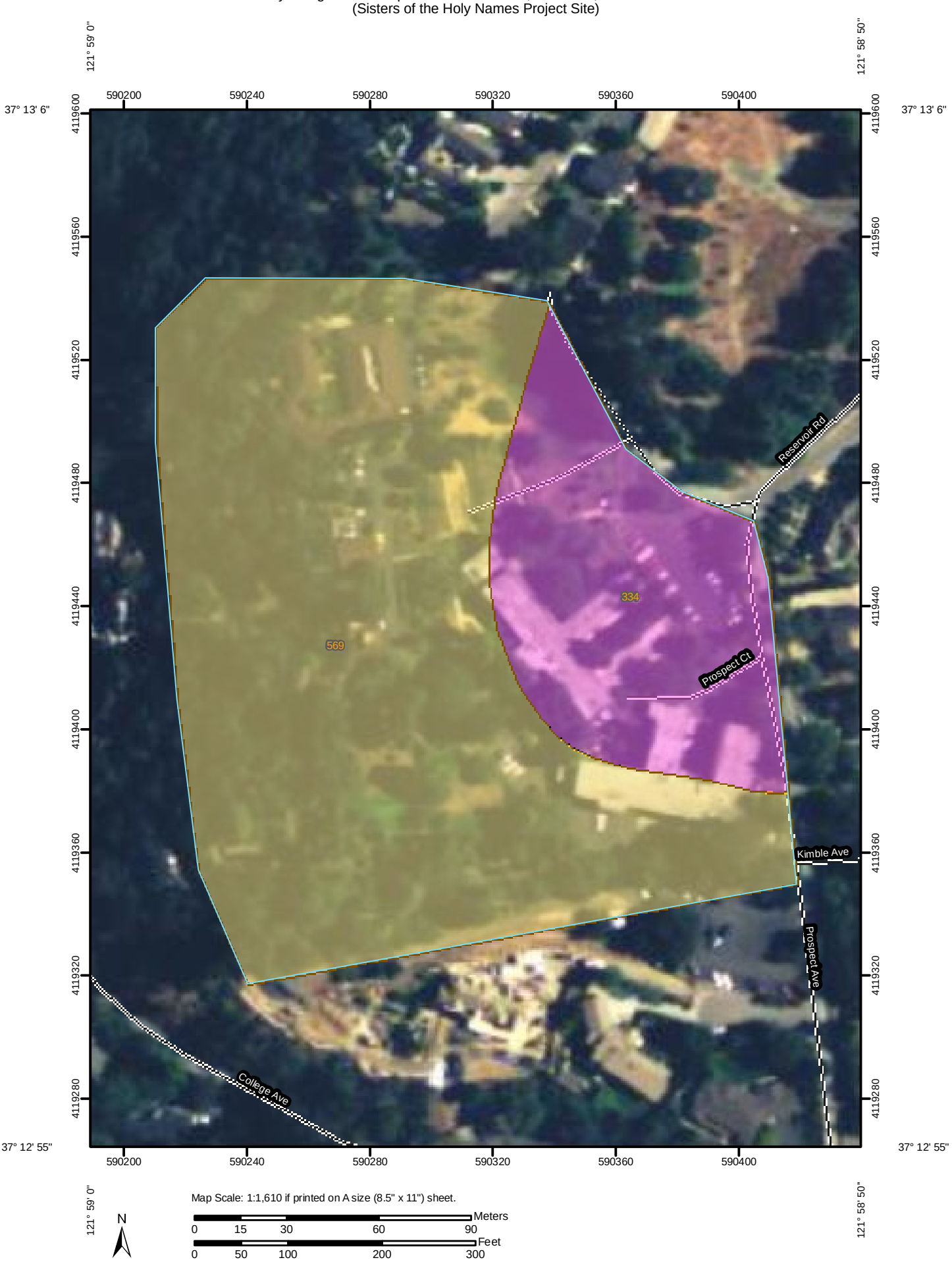
JN: 132531

REVISED: 08-06-2013

RBF CONSULTING
PLANNING ■ DESIGN ■ CONSTRUCTION
500 YGNACIO VALLEY ROAD, SUITE 300
WALNUT CREEK, CALIFORNIA 94596-3847
925.900.9460 • FAX 925.900.9465 • www.RBF.com

Appendix

Hydrologic Soil Group—Santa Clara Area, California, Western Part
(Sisters of the Holy Names Project Site)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Units

Soil Ratings
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Political Features
- Cities

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:1,610 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 10N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Santa Clara Area, California, Western Part
Survey Area Data: Version 1, Jul 27, 2010

Date(s) aerial images were photographed: 6/13/2005

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Santa Clara Area, California, Western Part (CA641)				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
334	Urban Land-Montavista-Togasara complex, 9 to 15 percent slopes	D	2.3	24.7%
569	Katykat-Sanikara complex, 8 to 30 percent slopes	C	7.0	75.3%
Totals for Area of Interest			**9.3**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

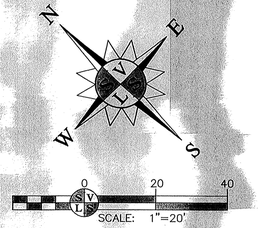
Aggregation Method: Dominant Condition

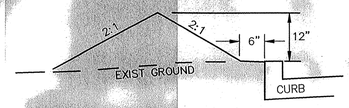
Component Percent Cutoff: None Specified

Tie-break Rule: Higher

1. CONTRACTOR SHALL TELEVISE EXISTING STORM DRAIN LIINE. LINE SHALL BE REPLACED WITH 15" HDPE IF DIAMETER IS LESS THAN 12" OR LINE IS IN BAD STRUCTURAL CONDITION AS DETERMINED BY THE TOWN ENGINEER.

JOINT TRENCH IS NOT COVERED BY THESE PLANS AND ASSOCIATED ENCROACHMENT PERMIT.



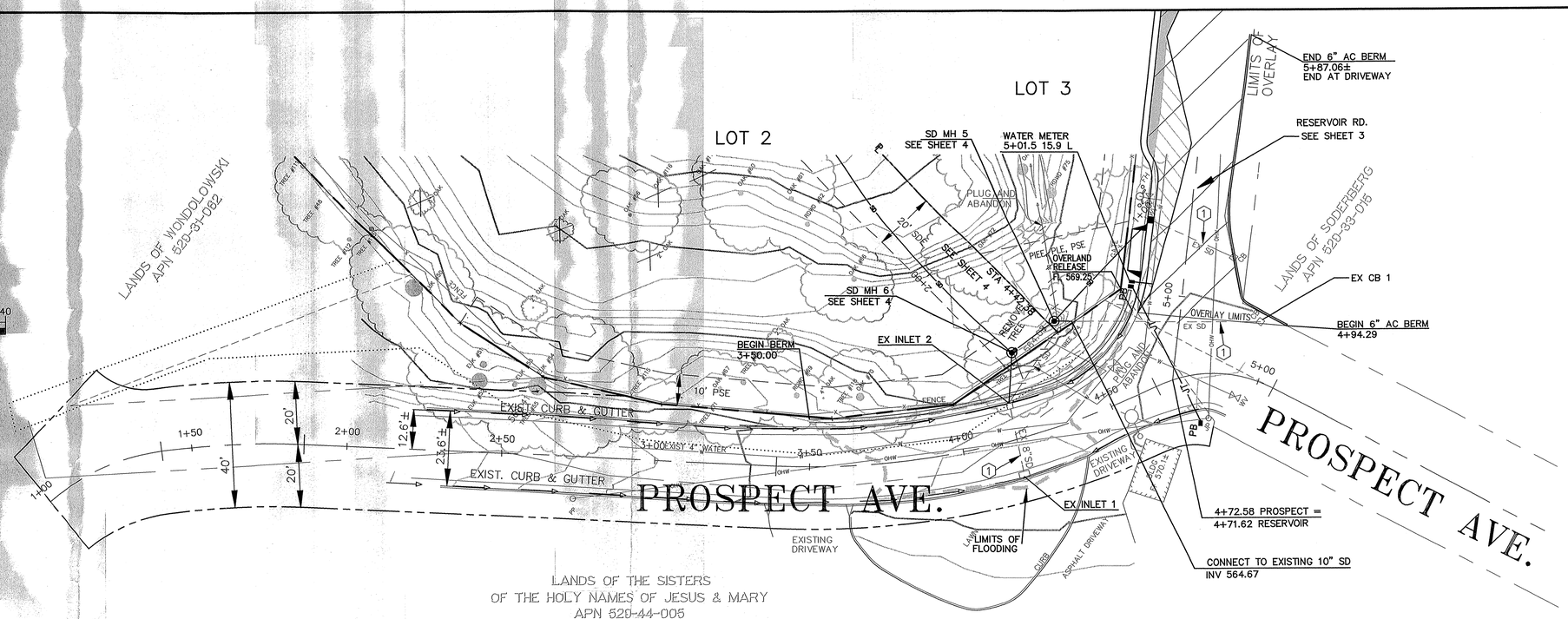


EARTH BERM

NOTE: CARE MUST BE TAKEN TO MAINTAIN THE BERM HEIGHT SINCE IT IS TO CONTAIN FLOOD WATERS IN THE EVENT OF A BLOCKED OR OVERCAPACITY STORM DRAIN. MINIMUM BERM HEIGHT = 569.75
A BERM SHALL BE CONSTRUCTED ALONG THE FRONTAGE AT THE INTERSECTION OF PROSPECT AND RESERVOIR ROAD. TREES ARE NOT TO BE REMOVED UNLESS ALREADY APPROVED.

OVERLAND RELEASE CHANNELIZATION

NO SCALE



PROSPECT AVENUE

SCALE: H 1"=20', V 1"=10'

ENO6-161
Town of Los Gatos
ENGINEERING DEPARTMENT
PLAN APPROVED
BY _____ DATE 8/3/2006
THE STAMPING OF THIS PLAN SHALL NOT BE DEEMED TO BE AN APPROVAL OF THE VALIDATION OF ANY TOWN OR STATE LAW. APPROVED PLANS MUST BE ON JOB SITE AT ALL TIMES.

DATE	REVISION	BY

SILICON VALLEY LAND SURVEYING, INC.
LAND AND ENGINEERING SURVEYS
1093 NORTH FIFTH ST., SAN JOSE, CA 95112
Tel (408) 971 8501 FAX (408) 971 8501

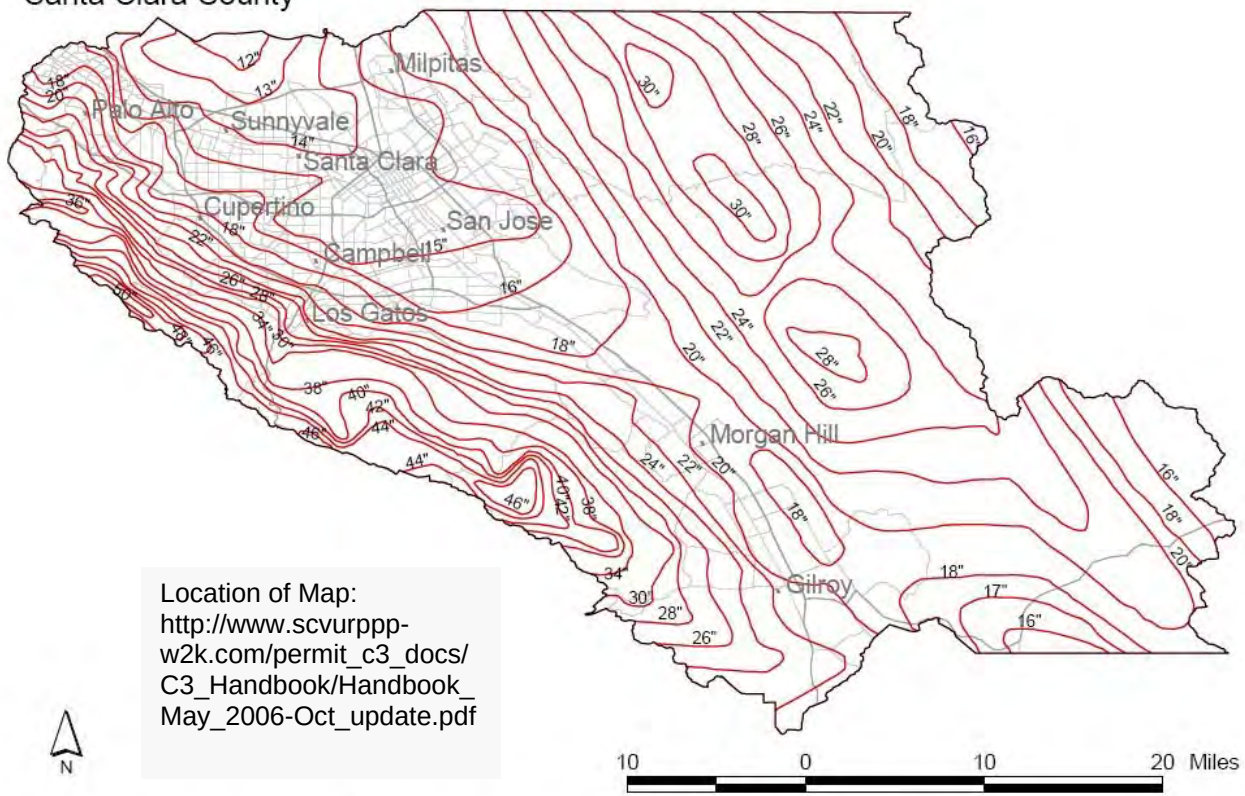
REGISTERED PROFESSIONAL ENGINEER ★ KEITH R. PALMER ★ No. C 60078 CIVIL ★ STATE OF CALIFORNIA

SIENNA OAKS
APN 529-31-041
LOS GATOS CALIFORNIA

PLAN AND PROFILE
PROSPECT AVENUE

DATE:	7/27/06
SCALE:	1"=20'
DRAWN BY:	JM
DESIGN BY:	KP
CHECKED BY:	
SHEET	2
OF	6 SHEETS
PROJ NO.	05-0770
DWG NO.	5077pp02

Figure A-2
Mean Annual Precipitation Map
Santa Clara County



SOURCE: Santa Clara Valley Water District, Mean Annual Precipitation Map, San Francisco & Monterey Bay Region, 1998

Figure A-2: Mean Annual Precipitation, Santa Clara County

TOWN OF LOS GATOS

STAFF ONLY
Building Permit
Date:_____
Permit #:_____

NPDES PERMIT - C.3. DATA FORM

C.3 Regulated Projects are defined as any project that creates and/or replaces 10,000 sq. ft. or more of impervious surface (collectively over the entire project site)

All projects creating, adding, or replacing 10,000 square feet or more of impervious surface on the project site must fill out this worksheet and **must reserve a minimum of 4% of developable surface area** for the placement of storm water treatment facilities, unless an alternative storm water treatment plan is approved by the Town Engineer. Submit this form to the Engineering Division of the Parks and Public Works Department. An update to this form will be required prior to Building Permit issuance.

What is an Impervious Surface?

An impervious surface is a surface covering or pavement that prevents the land's natural ability to absorb and infiltrate rainfall/stormwater. Impervious surfaces include, but are not limited to rooftops, walkways, paved patios, driveways, parking lots, storage areas, concrete and asphalt, and any other continuous watertight pavement or covering. **Pervious pavement, underlain with pervious soil or pervious storage material (e.g., drain rock), that infiltrates rainfall at a rate equal to or greater than surrounding unpaved areas** OR that stores and infiltrates the water quality design volume specified in Provision C.3.d of the Municipal Regional Stormwater Permit (MRP), **is not considered an impervious surface**.

**Note: For restaurants, uncover parking lots, auto service facilities and retail gasoline outlets that receive final discretionary approval on or after December 1, 2011, the threshold will be reduced to 5,000 sq. ft.*

1. General Information:

Date: 9/18/13 **APN #** 529-44-005

Project Location: 200 Prospect Avenue
(address)

Applicant Name: Sisters of the Holy Names **Applicant's Ph #:**_____

Engineer: Jen Harmon, RBF Consulting **Engineer's Ph #:** 925-906-1460

Project Phase(s): 1 of 1

Project Description: Redevelopment of Convent Complex into single family lots.

Project Type (check all that apply):

☒ Residential ☐ Commercial ☐ Industrial ☐ Auto Service ☐ Uncovered parking

☐ Public ☐ Restaurant ☐ Mixed Use ☐ Retail Gas Outlet ☐ Other _____

If Residential, does the project consist of a single-family home that is not part of a larger common plan of development? ☐ Yes ☒ No

If yes, stop here and submit sheet 1 only.

(Note: Beginning December 1, 2012, additional requirements will apply to single family home projects that are not part of a larger plan of development.)

Project Watershed/Receiving Water: Los Gatos Creek

2. Project Information:

a. Total site area 10.30 acres

b. Estimated area of land disturbance during construction (includes clearing grading or excavation) 6.45 acres

c. Existing impervious surface area (includes land covered by buildings, sheds, patios/covers, parking lots, streets, sidewalks, paved walkways and driveways, etc) 129,537 sq. ft.

d. Existing impervious surface area replaced as part of project 111,315 sq. ft

e. New impervious surface area created/added as part of project 0 sq. ft

f. Total new and replaced impervious surface area (d + e) 111,315 sq. ft

g. Total post-project impervious surface area (c + e) 111,315 sq. ft

h. Percent increase/replacement of impervious surface area (f ÷ c × 100) (For redevelopment projects only) 86.2 %

3. Construction General Permit Applicability:

Is #2.b. equal to 1 acre or more?

☒ Yes, applicant must obtain coverage under the State Construction General Permit (i.e., file a Notice of Intent and prepare a Stormwater Pollution Prevention Plan) (see www.swrcb.ca.gov/water_issues/programs/stormwater/construction.shtml for details).

☐ No, applicant does not need coverage under the State Construction General Permit.

4. Hydromodification Management (HM) Applicability:

a. Does project create and/or replace one acre or more of impervious surface AND create an increase in total impervious surface from the pre-project condition (i.e., is 2.g. > 2.c.)?

☐ Yes (continue) ☒ No – exempt from HM, go to page 3

b. Is the project located in an area of HM applicability (green or pink area) on the HM Applicability Map? (www.scvurppp-w2k.com/hmp_maps.htm)

☐ Yes, project must implement HM requirements

☐ No, project is exempt from HM requirements

5. Treatment System Sizing for Projects with Treatment Requirements

Indicate the hydraulic sizing criteria used and provide the calculated design flow or volume:

Treatment System Component	Hydraulic Sizing Criteria Used[3]	Design Flow or Volume (cfs or cu.ft.)
Bio treatment Stormwater facility	Simplified Method*	4% of imp area

[3]Key: 1: Volume – CASQA BMP Handbook Method
2: Flow – CASQA BMP Handbook Method

*the Simplified method assumes a surface area equal to 4% of the Contributing impervious area, and is appropriate for this stage of Project planning.

Specific Stormwater Control Measures:

(Check all that apply)

Source Controls

- ☐ Alternative building materials
- ☐ Wash area/racks, drain to sanitary sewer[2]
- ☐ Covered dumpster area, drain to sanitary sewer[2]
- ☐ Sanitary sewer connection or accessible cleanout for swimming pool/spa/fountain[1]
- ☒ Beneficial landscaping (minimizes irrigation, runoff, pesticides and fertilizers; promotes treatment)
- ☐ Outdoor material storage protection
- ☐ Covers, drains for loading docks, maintenance bays, fueling areas
- ☐ Maintenance (pavement sweeping, catch basin cleaning, good housekeeping)
- ☐ Storm drain labeling
- ☐ Other _____

Flow Duration Controls for Hydromodification Management (HM)

- ☐ Detention Basin
- ☐ Underground Tank or Vault
- ☐ Bioretention with outlet control
- ☐ Other _____

Site Design Measures

- ☒ Minimum land disturbance
- ☐ Minimized impervious surfaces
- ☐ Minimum-impact street design
- ☐ Minimum-impact parking lot design
- ☒ Cluster structures/ pavement
- ☐ Permeable pavement
- ☐ Alternative driveway design
- ☒ Roof downspouts drain to landscaping
- ☒ Microdetention in landscape
- ☐ Rainwater harvesting and reuse (e.g., rain barrel, cistern connected to roof drains)
- ☒ Preserved open space: 3.08 ac. or sq. ft. (circle one)
- ☐ Protected riparian and wetland areas, riparian buffers (Setback from top of bank: _____ft.)

  Other _____

Treatment Systems[2]

LID Treatment

- ☐ Infiltrating vegetated swale
- ☐ Vegetated filter strip
- ☒ Bioretention area
- ☐ Flow-through planter
- ☐ Green roof
- ☐ Infiltration trench/basin
- ☐ Underground detention and infiltration system (e.g. pervious pavement drain rock, large diameter conduit)
- ☐ Retention/irrigation
- ☐ Other _____

Other Treatment Methods

- ☐ Flow-through vegetated swale (no infiltration)
- ☐ Dry detention basin
- ☐ Wet pond
- ☐ Media filter (sand, compost, or manufactured media)
- ☐ Hydrodynamic separator[3]
- ☐ Water quality inlet filter[3]
- ☐ Other _____

[1] Subject to sanitary sewer authority requirements.

[2] Stormwater treatment is currently required for all projects that create and/or replace 10,000 square feet or more of impervious surface (#2.f. > 10,000 sf). Low Impact Development (LID) treatment methods are strongly encouraged, and will be required for projects that receive final discretionary

[3] Only allowed as part of a multi-step treatment process.

6. Third Party Certification

Per the Permit, a qualified consultant is required to review and certify the Stormwater Management Plan and/or Hydromodification Flow Control Facilities. The Town will facilitate this process and will require a deposit for this review.

7. Operation & Maintenance Information

A. Property Owner's Name Sisters of the Holy Names

B. Responsible Party for Stormwater Treatment/Hydromodification Control O&M:

a. Name: Sisters of the Holy Names

b. Address: PO Box 398 Maryhurst, OR 97036

c. Phone/E-mail: _____

****

This section to be completed by Municipal staff.

O&M Responsibility Mechanism

Indicate how responsibility for O&M is assured. Check all that apply:

☐ **O&M Agreement**

☐ **Other mechanism that assigns responsibility (describe below):**

_____

Infiltration/Harvesting and Use Feasibility Screening Worksheet

*Apply these screening criteria for **C.3 Regulated Projects*** required to implement Provision C.3 stormwater treatment requirements. See the Glossary (Attachment 1) for definitions of terms marked with an asterisk (*). Contact municipal staff to determine whether the project meets **Special Project*** criteria. If the project meets Special Project criteria, it may receive LID treatment reduction credits.*

1. Applicant Info

Site Address: 200 Prospect Avenue Los Gatos, CA APN: 529-44-005

Applicant Name: Sisters of the Holy Names Phone No.:

Mailing Address: P.O. Box 398 Marynurst OR 97036

2. Feasibility Screening for Infiltration

Do site soils either (a) have a **saturated hydraulic conductivity*** (Ksat) that will NOT allow infiltration of 80% of the annual runoff (that is, the Ksat is LESS than 1.6 inches/hour), or, if the Ksat rate is not available, (b) consist of Type C or D soils?[1]

☒ Yes (continue) ☐ No – complete the Infiltration Feasibility Worksheet. If infiltration of the C.3.d amount of runoff is found to be feasible, there is no need to complete the rest of this screening worksheet.

3. Recycled Water Use

Check the box if the project is installing and using a recycled water plumbing system for non-potable water use.

☐ The project is installing a recycled water plumbing system, and installation of a second non-potable water system for harvested rainwater is impractical, and considered infeasible due to cost considerations. Skip to Section 6.

4. Calculate the Potential Rainwater Capture Area* for Screening of Harvesting and Use

Complete this section for the entire project area. If rainwater harvesting and use is infeasible for the entire site, and the project includes one or more buildings that each have an individual roof area of 10,000 sq. ft. or more, then complete Sections 4 and 5 of this form for each of these buildings.

4.1 Table 1 for (check one): ☒ The whole project ☐ Area of 1 building roof (10,000 sq.ft. min.)

Table 1: Calculation of the Potential Rainwater Capture Area*

The Potential Rainwater Capture Area may consist of either the entire project area or one building with a roof area of 10,000 sq. ft. or more.

	1	2	3	4
	Pre-Project Impervious surface[2] (sq.ft.), if applicable	Proposed Impervious Surface[2] (IS), in sq. ft.		Post-project landscaping (sq.ft.), if applicable
		Replaced[3] IS	Created[4] IS	
a. Enter the totals for the area to be evaluated:	129,537			
b. Sum of replaced and created impervious surface:	N/A	111,315		N/A
c. Area of existing impervious surface that will NOT be replaced by the project.	0	N/A		N/A

[1] Base this response on the site-specific soil report, if available. If this is not available, consult soil hydraulic conductivity maps in Attachment 3.

[2], Enter the total of all impervious surfaces, including the building footprint, driveway(s), patio(s), impervious deck(s), unroofed porch(es), uncovered parking lot (including top deck of parking structure), impervious trails, miscellaneous paving or structures, and off-lot impervious surface (new, contiguous impervious surface created from road projects, including sidewalks and/or bike lanes built as part of new street). Impervious surfaces do NOT include vegetated roofs or pervious pavement that stores and infiltrates rainfall at a rate equal to immediately surrounding, unpaved landscaped areas, or that stores and infiltrates the **C.3.d amount of runoff***.

[3] "Replaced" means that the project will install impervious surface where existing impervious surface is removed.

[4] "Created" means the project will install new impervious surface where there is currently no impervious surface.

* For definitions, see Glossary (Attachment 1).

4.2 Answer this question ONLY if you are completing this section for the entire project area. If existing impervious surface will be replaced by the project, does the area to be replaced equal 50% or more of the existing area of impervious surface? *(Refer to Table 1, Row "a". Is the area in Column 2 > 50% of Column 1?)*

☐ Yes, C.3. stormwater treatment requirements apply to areas of impervious surface that will remain in place as well as the area created and/or replaced. This is known as the 50% rule.

☐ No, C.3. requirements apply only to the impervious area created and/or replaced.

4.3 Enter the square footage of the **Potential Rainwater Capture Area***. If you are evaluating only the roof area of a building, or you answered "no" to Question 4.2, this amount is from Row "b" in Table 1. If you answered "yes" to Question 4.2, this amount is the sum of Rows "b" and "c" in Table 1.:

111,315 square feet.

4.4 Convert the measurement of the **Potential Rainwater Capture Area*** from square feet to acres (divide the amount in Item 4.3 by 43,560):

2.56 acres.

5. Feasibility Screening for Rainwater Harvesting and Use

5.1 Use of harvested rainwater for landscape irrigation:

Is the onsite landscaping LESS than 2.5 times the size of the **Potential Rainwater Capture Area*** (Item 4.3)? (Note that the landscape area(s) would have to be contiguous and within the same Drainage Management Area to use harvested rainwater for irrigation via gravity flow.)

☐ Yes (continue) ☒ No – Direct runoff from impervious areas to **self-retaining areas*** OR refer to Table 11 and the curves in Appendix F of the LID Feasibility Report to evaluate feasibility of harvesting and using the C.3.d amount of runoff for irrigation.

5.2 Use of harvested rainwater for toilet flushing or non-potable industrial use:

a. Residential Projects: Proposed number of dwelling units: 17
Calculate the dwelling units per impervious acre by dividing the number of dwelling units by the acres of the **Potential Rainwater Capture Area*** in Item 4.4. Enter the result here:

_____)

Is the number of dwelling units per impervious acre LESS than 100 (assuming 2.7 occupants/unit)?

☒ Yes (continue) ☐ No – complete the Harvest/Use Feasibility Worksheet.

b. Commercial/Industrial Projects: Proposed interior floor area: _____ (sq. ft.)

Calculate the proposed interior floor area (sq.ft.) per acre of impervious surface by *dividing the interior floor area (sq.ft.) by the acres of the **Potential Rainwater Capture Area*** in Item 4.4. Enter the result here:*

_____

Is the square footage of the interior floor space per impervious acre LESS than 70,000 sq. ft.?

☐ Yes (continue) ☐ No – complete the Harvest/Use Feasibility Worksheet

c. School Projects: Proposed interior floor area: _____ (sq. ft.)

Calculate the proposed interior floor area per acre of impervious surface by *dividing the interior floor area (sq.ft.) by the acres of the **Potential Rainwater Capture Area*** in Item 4.4 . Enter the result here:*

_____.

Is the square footage of the interior floor space per impervious acre LESS than 21,000 sq. ft.?

☐ Yes (continue) ☐ No – complete the Harvest/Use Feasibility Worksheet

* For definitions, see Glossary (Attachment 1).

d. Mixed Commercial and Residential Use Projects

- Evaluate the residential toilet flushing demand based on the dwelling units per impervious acre for the residential portion of the project, following the instructions in Item 5.2.a, except you will use a prorated acreage of impervious surface, based on the percentage of the project dedicated to residential use.
- Evaluate the commercial toilet flushing demand per impervious acre for the commercial portion of the project, following the instructions in Item 5.2.a, except you will use a prorated acreage of impervious surface, based on the percentage of the project dedicated to commercial use.

e. Industrial Projects: Estimated non-potable water demand (gal/day): _____

Is the non-potable demand LESS than 2,400 gal/day per acre of the Potential Rainwater Capture Area?

☐ Yes (continue) ☐ No – refer to the curves in Appendix F of the LID Feasibility Report to evaluate feasibility of harvesting and using the C.3.d amount of runoff for industrial use.

6. Use of Biotreatment

If only the "Yes" boxes were checked for all questions in Sections 2 and 5, or the project will have a recycled water system for non-potable use (Section 3), then the applicant may use appropriately designed bioretention facilities for compliance with C.3 treatment requirements. The applicant is encouraged to maximize infiltration of stormwater if site conditions allow.

7. Results of Screening Analysis

Based on this screening analysis, the following steps will be taken for the project (check all that apply):

☐ Implement biotreatment measures (such as an appropriately designed bioretention area).

☐ Conduct further analysis of infiltration feasibility by completing the Infiltration Feasibility Worksheet.

☐ Conduct further analysis of rainwater harvesting and use (check one):

- ☐ Complete the Rainwater Harvesting and Use Feasibility Worksheet for:
  - ☐ The entire project
  - ☐ Individual building(s), if applicable, describe:_____
- ☐ Evaluate the feasibility of harvesting and using the C.3.d amount of runoff for irrigation, based on Table 11 and the curves in Appendix F of the LID Feasibility Report
- ☐ Evaluate the feasibility of harvesting and using the C.3.d amount of runoff for non-potable industrial use, based on the curves in Appendix F of the LID Feasibility Report.

* For definitions, see Glossary (Attachment 1).

Eisenberg, Olivieri & Associates
Environmental and Public Health Engineering

MEMORANDUM

TO: **Trang TuNguyen , Town of Los Gatos**

FROM: **Jill Bicknell, P.E.**

DATE: **September 24, 2013**

SUBJECT: **100 Prospect Avenue -- Second Review of Project Submittals for Compliance with Stormwater Requirements**

Project Description

The proposed development project at 100 Prospect Avenue will be a residential subdivision consisting of 17 single family homes. The total site area is 10.3 acres. The area of land disturbance is 6.45 acres. The site is located at the intersection of Prospect Avenue and Kimble Avenue. The property currently contains six buildings (used as residences, care facilities and administrative offices), parking areas, and driveways. The C.3 Data Form indicates that the site is located within the Los Gatos Creek watershed.

We completed our initial review of this project on June 18, 2013 and recommended submittal of additional information in order to complete the review (see Attachment A).

We subsequently reviewed the following additional submittals with regard to this project:

- "Response to Comment from Jill Bicknell, P.E. of EOA Inc. dated July 24, 2013" from Jennifer Harmon, P.E., RBF Consulting, September 12, 2013.
- Preliminary Stormwater Management Plan, dated September 2013[1], including:
  - Updated description of proposed treatment measures (p. 7);
  - Exhibit 3 -- C.3 Stormwater Conceptual Potential Treatment Areas Exhibit, dated August 6, 2013;
  - Completed C.3 Data Form;
  - Completed Infiltration/Harvesting and Use Feasibililty Screening Worksheet.

We reviewed the project submittals for compliance with the stormwater requirements in the Town of Los Gatos' NPDES Permit[2] (referenced herein as the Municipal Regional Permit or MRP) and consistency with related ordinances[3]. Our findings are presented below:

[1] The hydrologic/hydraulic analysis for the 10-year and 100-year peak flow rates from the project was not reviewed as part of this C.3. review memo.
[2] California Regional Water Quality Control Board, San Francisco Bay Region, Municipal Regional Stormwater Permit, Order No. R2-2009-0074, adopted October 14, 2009, Provision C.3.
[3] Town of Los Gatos Municipal Code, Chapter 12, Article II. Grading Permit, Sec. 12.20.050 Erosion control plan, Chapter 12, Article III. Design Standards, Sec. 12.30.080, Erosion and sediment control, and Chapter 22, Article III. Stormwater Pollution Control, Sec.22.30.035. New development/redevelopment.

EOA, Inc. • 111 W. Evelyn Ave. • Sunnyvale, CA 94086 • Tel: (408) 720-8811 • Fax: (408) 720-8812

1. Applicability of NPDES Permit Provision C.3. Requirements

a. Stormwater Treatment Requirements

The C.3. Data Form indicates that there is currently 129,537 square feet of impervious surface on the site, and the project will replace 111,315 square feet of existing impervious area and not add any new impervious area. Since the total post-project impervious area is 111,315 square feet, which is greater than the C.3. threshold of 10,000 square feet[4], the C.3. treatment requirements apply to this project. The low impact development (LID) treatment requirements apply to this project because it is a private C.3 Regulated Project with a development permit application that was deemed complete after December 1, 2009, and it did not receive final discretionary approval before December 1, 2011.[5]

b. Hydromodification Control Requirements

The project will create and replace more than 1 acre of impervious surface; however, because the project will not increase the amount of impervious surface over existing conditions, the hydromodification control requirements do not apply to this project[6].

2. Proposed Stormwater Management Measures and Sizing Calculations

a. The C.3 Data Form indicates that the project will include five site design measures: minimize land disturbance, cluster structure/pavement, preserve open space, roof downspouts drain to landscaping, and microdetention in landscape. These are demonstrated on the plan sheets and Preliminary Stormwater Management Plan as follows:

   i. Exhibit 2 – Conceptual Proposed Drainage Areas illustrates the clustering of residential lots and the open space area that will be preserved on the steep hillside to the west and south of the lots. The project is also being designed to preserve many of the trees at the site.

   ii. Note 3 on Sheet 7-- C.3 Stormwater Conceptual Plan (previously reviewed) indicates that runoff from impervious surfaces such as rooftops and driveways will be directed to pervious landscaping.

   iii. Microdetention in landscaping will be implemented using self-retaining areas as indicated in Sheet 7-- C.3 Stormwater Conceptual Plan and the Preliminary Stormwater Management Plan.

b. The C.3. Data Form indicates that the project will include one pollutant source control measure: “beneficial landscaping” (i.e., drought tolerant and/or native plants, in order to minimize over-irrigation and the use of pesticides on the landscaping). An additional source control measure that would be appropriate is to provide “No Dumping” labels on the two new storm drain inlets (see Section 2.e below).

c. A completed Infiltration/Harvesting and Use Feasibility Screening Worksheet was submitted that indicates that infiltration is not feasible due to the presence of C and D soils on the site, and rainwater harvesting is not feasible due to the lack of demand for irrigation or toilet flushing. Therefore, biotreatment may be used as a treatment measure.

d. The project proposes to use self-retaining areas for stormwater treatment of runoff on the 17 residential lots. Runoff from impervious surfaces such as rooftops and driveways will be

[4] California Regional Water Quality Control Board, San Francisco Bay Region, Municipal Regional Stormwater Permit, Order No. R2-2009-0074, adopted October 14, 2009, Provision C.3.b.ii.(3).
[5] Ibid., Provision C.3.c.ii.(2)
[6] Ibid., Provision C.3.g.

directed to pervious landscaping using a maximum 2:1 ratio of impervious area to the receiving pervious area. Table 3 of the Preliminary Stormwater Management Plan provides the expected impervious area to pervious area ratios on the developed lots, and most of them are well below 2:1. However, retaining runoff in the pervious areas could be challenging due to the steep slopes on portions of the lots. The pervious areas will need to be graded such that they are able to pond and infiltrate runoff up to the water quality design storm event.

e. The new road and the new cul-de-sac at the northern end of Prospect Avenue will be treated using biotreatment facilities. For the new road, two biotreatment facilities will be constructed at the lower end of the road on Lots 2 and 11. These biotreatment facilities will drain to two new storm drain inlets on the new road near the intersection of Prospect Avenue. The runoff from the cul-de-sac on Prospect Avenue will be treated in a biotreatment facility on Lot 14.

f. The biotreatment facilities are sized with a surface area equal to 4% of the tributary impervious area. Calculated sizes are shown on Exhibit C of the Preliminary Stormwater Management Plan and are acceptable. Exhibit C also provides a detail for the biotreatment facilities, which is consistent with the guidance in the SCVURPPP C.3 Stormwater Handbook (2012).

g. The Preliminary Stormwater Management Plan states that interceptor tree credits may be applied in order to "reduce the amount of effective impervious area that needs to be included in treatment measures". It is unclear from Exhibit 3 whether the biotreatment facilities at the lower end of the new road will be able to capture runoff from the entrance to the road from Prospect Avenue. If runoff from this portion of the new impervious area is unable to be treated, interceptor trees may be used to mitigate for this small area in accordance with the guidelines in Section 4.5 of the SCVURPPP C.3 Stormwater Handbook.

3. Consistency of SWPPP with Local Ordinances

a. Since the disturbed area during construction will be more than 1 acre, the applicant is required to obtain coverage under the State Construction General Permit[7].

b. No erosion control plan or Stormwater Pollution Prevention Plan (SWPPP) was provided for review and neither is required for review of the project at this time, consistent with direction from the Town.

4. Conclusions

a. The Preliminary Stormwater Management Plan and proposed treatment measures are acceptable and, with proper grading, will retain and treat the water quality design storm runoff in compliance with Provision C.3 of the Town's stormwater permit.

b. The site design measures identified in the C.3 Data Form are acceptable and included on the plans and in the exhibits to the Preliminary Stormwater Management Plan.

c. The pollutant source control measure specified in the C.3 Data Form is appropriate for this type of project and land use and is acceptable. However, an additional source control measure is recommended.

[7] NPDES General Permit for Storm Water Discharges Associated with Construction Activity, Water Quality Order 2009-0009-DWQ, September 2009 (effective July 1, 2010).

5. Recommendations

a. The Town may approve the Preliminary Stormwater Management Plan, including the site design, source control, and treatment measures proposed for the project, with the following conditions (that may be addressed in the Final Stormwater Management Plan or at a later phase of the project):

   i. Once the specific drainage areas to the two biotreatment facilities on the new road have been determined, interceptor trees may need to be added to mitigate for any impervious surface associated with the new road that is not being treated.

   ii. “Storm drain labeling” should be added as a source control measure for the new storm drain inlets, and indicated by a note on the final stormwater control plan.

   iii. Conditions should be placed on the development of the individual residential lots that require proper grading to allow roof and driveway runoff to be retained on the property up to the water quality design storm.

b. The Town should coordinate with the applicant to include an easement, deed restriction, and maintenance agreement for those portions of the three properties encumbered by a storm water treatment area. The applicant should provide a maintenance plan for the biotreatment facilities, which should be included in the maintenance agreement.

ATTACHMENT A

Eisenberg, Olivieri & Associates
Environmental and Public Health Engineering

MEMORANDUM

TO: **Trang TuNguyen , Town of Los Gatos**

FROM: **Jill Bicknell, P.E. and Vishakha Atre**

DATE: **June 18, 2013**

SUBJECT: **100 Prospect Avenue**
Review of Project Submittals for Compliance with Stormwater Requirements

Project Description
The proposed development project at 100 Prospect Avenue will be a residential subdivision consisting of 17 single family homes. The total site area is 10.39 acres. The area of land disturbance is 6.45 acres. The site is located at the intersection of Prospect Avenue and Kimble Avenue. The property currently contains six buildings (used as residences, care facilities and administrative offices), parking areas, and driveways. The C.3 Data Form indicates that the site is located within the Los Gatos Creek watershed.

We reviewed the following submittals with regard to this project:

- 100 Prospect Avenue Plan Set, dated March 26, 2013
  - Sheet 1 – Title Sheet
  - Sheet 3 – Lot Layout Plan
  - Sheet 4 – Conceptual Grading and Drainage Plan
  - Sheet 5 – Conceptual Tree Preservation and Removal Plan
  - Sheet 6 – Utility Plan
  - Sheet 7 – C.3 Stormwater Conceptual Plan
  - Sheet 8 – Conceptual Phasing Plan
- Completed C.3 Data Form
- Preliminary Stormwater Management Plan, dated March 2013[1]

We reviewed the project submittals for compliance with the stormwater requirements in the Town of Los Gatos' NPDES Permit[2] (referenced herein as the Municipal Regional Permit or MRP) and consistency with related ordinances[3]. Our findings are presented below:

[1] The hydrologic/hydraulic analysis for the 10-year and 100-year peak flow rates from the project was not reviewed as part of this C.3. review memo.
[2] California Regional Water Quality Control Board, San Francisco Bay Region, Municipal Regional Stormwater Permit, Order No. R2-2009-0074, adopted October 14, 2009, Provision C.3.
[3] Town of Los Gatos Municipal Code, Chapter 12, Article II. Grading Permit, Sec. 12.20.050 Erosion control plan, Chapter 12, Article III. Design Standards, Sec. 12.30.080, Erosion and sediment control, and Chapter 22, Article III. Stormwater Pollution Control, Sec.22.30.035. New development/redevelopment.

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1. Applicability of NPDES Permit Provision C.3. Requirements

a. Stormwater Treatment Requirements

The C.3. Data Form indicates that there is currently 129,557 square feet of impervious surface on the site and the project will add 112,992 square feet of new impervious area. It appears that the project is actually replacing 112,992 square feet of existing impervious area and not adding any new impervious area.

The C.3 Data Form also indicates that the total post-project impervious area (new and replaced) is 112,992 square feet. Therefore, since the total amount of impervious surface to be created and/or replaced is greater than the C.3. threshold of 10,000 square feet[4], the C.3. treatment requirements apply to this project. The low impact development (LID) treatment requirements apply to this project because it is a private C.3 Regulated Project with a development permit application that was deemed complete after December 1, 2009, and it did not receive final discretionary approval before December 1, 2011.[5]

Item 2h of the C.3 Data Form indicates that the project will replace 87.2 percent of the existing impervious surface with new impervious surface. Because 50 percent or more of the existing impervious surface will be replaced, stormwater runoff from all of the post-project impervious surface will need to receive stormwater treatment.[6]

b. Hydromodification Control Requirements

The project will create and replace more than 1 acre of impervious surface; however, because the project will not increase the amount of impervious surface over existing conditions, the hydromodification control requirements do not apply to this project[7].

2. Proposed Stormwater Management Measures and Sizing Calculations

a. The C.3 Data Form indicates that the project will include six site design measures. The following paragraphs identify these site design measures and whether they are indicated in the plan sheets:

i. The C.3 Data Form indicates that the project will minimize land disturbance. As shown on Sheet 5 (Conceptual Tree Preservation and Removal Plan), the project is designed to preserve many of the trees at the site.

ii. The C.3 Data Form indicates that the project may have permeable paving. This is indicated in Sheet 7 (C.3 Stormwater Conceptual Plan).

iii. The C.3 Data Form indicates that roof downspouts will drain to landscaping. Note 3 on Sheet 7 (C.3 Stormwater Conceptual Plan) indicates that runoff from impervious surfaces such as rooftops and driveways will be directed to pervious landscaping.

iv. The C.3 Data Form indicates that the project will include microdetention in landscape. This will be implemented using self-retaining areas as indicated in Sheet 7 (C.3 Stormwater Conceptual Plan) and the Preliminary Stormwater Management Plan

v. The C.3 Data Form indicates that the project will cluster structure/pavement and preserve open space. These site design measures are not shown on the plans.

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[4] California Regional Water Quality Control Board, San Francisco Bay Region, Municipal Regional Stormwater Permit, Order No. R2-2009-0074, adopted October 14, 2009, Provision C.3.b.ii.(3).
[5] Ibid., Provision C.3.c.ii.(2)
[6] Ibid., Provision C.3.b.ii.(3)(a)
[7] Ibid., Provision C.3.g.

b. The C.3. Data Form indicates that the project will include one pollutant source control measures: maintenance (pavement sweeping, catch basin cleaning, good housekeeping). Additional source control measures that would be appropriate include: "No Dumping" labels on new storm drain catch basins, and "beneficial landscaping" (i.e., drought tolerant and/or native plants, in order to minimize over-irrigation and the use of pesticides on the landscaping).

c. The applicant did not submit completed Infiltration/Harvesting and Use Feasibility Screening Worksheets.

d. The project proposes to use self-retaining and self-treating areas for stormwater treatment. Comments on these are below:

   - All 17 residential lots will be self-retaining, where runoff from impervious surfaces such as rooftops and driveways will be directed to pervious landscaping using a maximum 2:1 ratio of impervious area to the receiving pervious area. The pervious areas will be designed to pond up to 3 inches in depth. This could be challenging due to the steep slopes on portions of the lots.
   - Roads will either be pervious (self-treating) or an alternative off-site equivalent impervious area will be treated. The off-site stormwater treatment facilities would be sized to be 4% of the total impervious area.

3. Consistency of SWPPP with Local Ordinances

a. Since the disturbed area during construction will be more than 1 acre, the applicant is required to obtain coverage under the State Construction General Permit[8].

b. No erosion control plan or Stormwater Pollution Prevention Plan (SWPPP) was provided for review and neither is required for review of the project at this time, consistent with direction from the Town.

4. Conclusions

a. The preliminary stormwater management plan is acceptable in concept, but additional information needs to be provided to determine compliance with Provision C.3 of the Town's stormwater permit.

b. Site design measures identified in the C.3 Data Form are acceptable, but the applicant needs to show all of them on the plans.

c. The pollutant source control measure specified in the C.3 Data Form is appropriate for this type of project and land use and is acceptable. However, additional source control measures are recommended.

d. The use of self-treating and self-retaining areas may be acceptable pending review of additional design details.

5. Recommendations

To complete the review and make a recommendation regarding compliance with stormwater requirements, we request that the applicant address the following issues and submit additional information:

[8] NPDES General Permit for Storm Water Discharges Associated with Construction Activity, Water Quality Order 2009-0009-DWQ, September 2009 (effective July 1, 2010).

a. Submit a revised C.3 Data Form with correct information for replaced and new impervious surface areas and additional source control measures. Ensure that the information for impervious surface area mentioned in the C.3 Data Form is consistent with that mentioned in the Preliminary Stormwater Management Plan.

b. Submit completed Infiltration/Harvesting and Use Feasibility Screening Worksheets.

c. Submit a stormwater control plan delineating the self-retaining areas and calculations demonstrating that the 2:1 ratio of impervious to pervious area is not exceeded. Indicate all site design measures on the plan.

d. Submit design details for the pervious paving areas. If off-site stormwater treatment facilities are used for alternative compliance, submit design details for those facilities.

APPENDIX F

TRAFFIC GENERATION ANALYSIS AND PEER REVIEW

HEXAGON TRANSPORTATION CONSULTANTS, INC.

Memorandum

To: Sisters of the Holy Names of Jesus and Mary

From: Robert Del Rio

Date: April 30, 2013

Subject: Trip Generation Study for the Existing and Proposed Land Uses at the Sisters of the Holy Names of Jesus and Mary Property in Los Gatos, California

Hexagon Transportation Consultants, Inc. completed a Trip Generation Study, dated December 14, 2012 for existing and proposed land uses at the Sisters of the Holy Names of Jesus and Mary property (project site), located at 100 Prospect Avenue, in the Town of Los Gatos, California.

While not required under Town of Los Gatos Level of Service (LOS) Standards or Congestion Management Agency Transportation Impact Analysis Guidelines, the Town of Los Gatos requested that we update the original study to include analysis of existing and proposed land uses during the peak arrival and departure periods of Los Gatos High School. In addition, total traffic generation counts at the project site for both AM and PM Peak Hours have also been updated due to a clerical error in the conversion of the raw data in the December Study.

Existing Conditions

The site consists of approximately 85,000 square feet of space in six buildings ranging from one to three stories in height. The Sisters operate a full service Convent, housing, care, education, retreat and religious facility. The property operates under Use Permits that allow for a wide range of uses including residential living, education/classrooms, dining, chapel, administrative offices, indoor and outdoor recreation, retreats, common dining facilities, religious activities including daily mass and other religious services. The convent is a 24 hour per day, 7 day per week, and 365 day per year operation including more than 65 staff entering and exiting the site in three daily shifts over each 24 hour period. Existing traffic includes vehicles from Sisters driving automobiles, staff shift changes, daily visitors, off site vendors, events, retreats, service vehicles, food and supply trucks, contract medical service providers and emergency medical services. The property can accommodate up to 140 residents, with 66 Sisters currently residing on site. The site currently operates at approximately 47% of maximum capacity.

Proposed Uses

The project as proposed consists of a Tentative Map Application for subdivision of the property and ultimately the replacement of the existing convent and other facilities with 17 single-family homes. The study consisted of the evaluation of the existing traffic conditions for the site and traffic conditions in comparison to the proposed land use with the return of the site to residential use.

The purpose of the trip generation analysis is to provide a comparison of the site's existing trip generation with the planned future residential use.

Existing Trip Generation

Driveway counts were collected at the project site to determine the amount of traffic that is currently generated by the project site. The driveway counts consisted of 24-hour machine (tube) counts at every driveway providing access to the project site (see Figure 1). The counts were collected for a total of eight consecutive days (from December 4-11, 2012). The count data utilized to estimate the trip generation for the project site are those collected at driveways 1-6, as shown in Figure 1.

Information obtained from the tube counts was used to determine the highest, lowest, and average amounts of traffic currently accessing and exiting the project site on a daily basis as well as during peak periods of street traffic. The existing site trip generation was summarized for the standard AM (7:00-9:00 AM) and PM (4:00-6:00 PM) peak commute hours as well as the peak arrival (7:15-8:15 AM) and departure (2:15-3:15 PM) periods of Los Gatos High School. Trip generation for each time period is summarized below and in Table 1.

Daily Trips

Based on the tube counts for the entire week (including the weekend), it was determined that the existing uses on the project site currently generate an average of 303 daily trips. The counts also indicate that the greatest amount of trips generated by the site for the entire week surveyed were 419 daily trips (which occurred on Thursday December 6th).

Although count data was collected for an entire week for traffic analysis purposes, the Town of Los Gatos only uses data that is collected on an average weekday (Tuesday through Thursday). The count information collected on typical weekdays shows that the project site generates an average of 328 daily trips. The same data indicates that the maximum number of trips that occurred on a typical weekday were 419 daily trips (Thursday December 6th). For purpose of this trip generation analysis, the average traffic generated during the typical weekdays was utilized to estimate the amount of trips currently generated by the project site.

Standard AM and PM Peak Commute Hours

Based on the tube counts for the entire week, it was determined that the existing uses on the project site currently generate an average of 24 trips during the AM peak hour and 20 trips during the PM peak hour. The counts also indicate that the greatest amount of peak hour trips generated by the site for the entire week surveyed were 55 AM peak hour trips (Thursday December 6th) and 32 PM peak hour trips (Sunday December 9th).

The count information collected on typical weekdays shows that the project site generates an average of 29 AM peak hour trips and 19 PM peak hour trips. The same data indicates that the maximum number of trips that occurred on a typical weekday were 55 AM peak hour trips (Thursday December 6th) and 28 PM peak hour trips (Tuesday December 4th).

High School Peak Periods

Based on the tube counts for the entire week, it was determined that the existing uses on the project site currently generate an average of 16 trips during the High School (HS) peak arrival period and 32 trips during the HS peak departure period. The counts also indicate that the greatest amount of trips generated by the site for the entire week surveyed were 30 HS peak arrival period trips (Monday December 10th) and 44 HS peak departure period trips (Saturday December 8th).

The count information collected on typical weekdays shows that the project site generates an average of 20 HS peak arrival period trips and 27 HS peak departure period trips. The same data indicates that the maximum number of trips that occurred on a typical weekday were 25 HS peak arrival period trips (Wednesday December 5th) and 35 HS peak departure period trips (Tuesday December 11th).

Proposed Trip Generation

The magnitude of traffic produced by a new development is estimated by applying the size of the project to the applicable trip generation rates contained in the Institute of Transportation Engineers (ITE) *Trip Generation Manual*, 9th Edition.

Based on the ITE average trip generation rates for single-family detached housing (ITE Land Use #210), the proposed project is expected to generate a total of 162 daily trips, 13 AM peak-hour trips (3 inbound trips and 10 outbound trips), and 17 PM peak-hour trips (11 inbound trips and 6 outbound trips). Trip generation rates for the specific peak arrival and departure periods of the high school are not available. However, the peak arrival period of the high school coincides with the standard AM peak commute period and can be assumed to be the same during both time periods. The peak high school departure period occurs prior to the standard PM peak commute hour. It would be expected that trips generated by residential during the standard PM peak commute hour is much greater than during the peak high school departure period. Therefore, to provide a conservative estimate, it was assumed that the trip generation for the proposed project during the peak high school departure period and the standard PM peak commute hour would be identical. The trip generation estimates for the proposed project are summarized in Table 2.

Conclusion

Based on the existing and proposed uses for the project site, hose counts to measure existing trips and established ITE standards, the project will generate less daily trips, standard AM and PM peak hour trips, and peak high school arrival and departure period trips than the existing uses based on the conservative use of the average trips currently generated on site and did not assume additional traffic if the site were operating at maximum capacity. Therefore, in accordance with the Town of Los Gatos Traffic Policy, a Traffic Impact Analysis is not required. In addition, the project is not subject to the Town of Los Gatos Community Benefit Policy as it will not generate more than 5 peak hour trips.

Attachments:

Trip Count Data

Figure 1
Driveway Count Locations

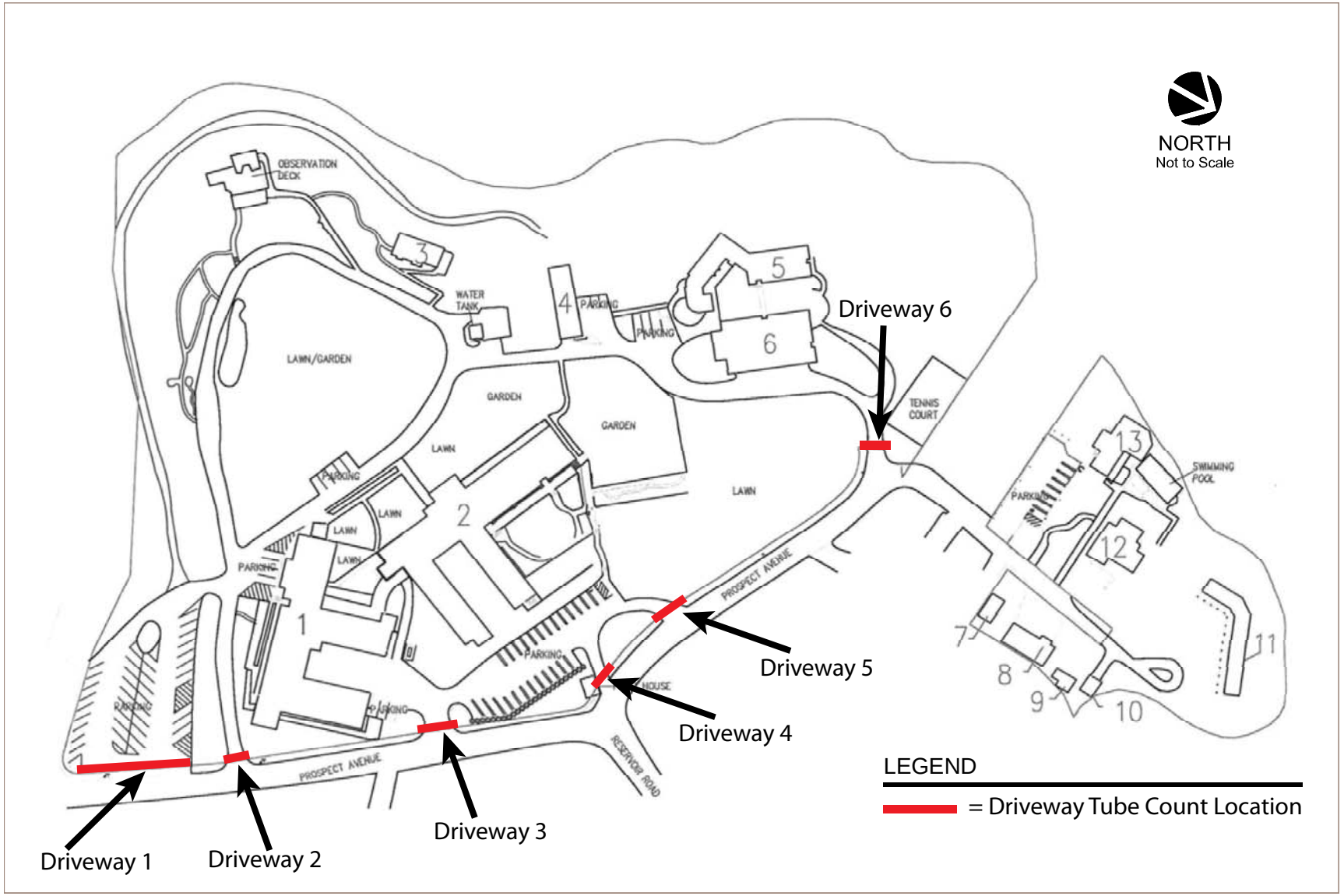

Table 1
Existing Trip Generation Estimates

Total Traffic Generated at the Project Site (Driveway 1-6 as shown in Figure 1)	Standard Peak Commute Hours						Peak HS Arrival & Departure Periods						Daily		
	AM Peak Hour (7:00 - 9:00 AM)			PM Peak Hour (4:00 - 6:00 PM)			AM Arrival Period (7:15 - 8:15 AM)			PM Arrival Period (2:15 - 3:15 PM)					
	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total
Total of Eight Consecutive Days															
Tuesday December 4th	11	10	21	11	17	28	11	10	21	12	11	23	152	152	304
Wednesday December 5th	14	12	26	6	13	19	12	13	25	11	15	26	122	150	272
Thursday December 6th	37	18	55	3	10	13	15	5	20	15	7	22	213	206	419
Friday December 7th	8	14	22	11	19	30	8	5	13	23	19	42	176	180	356
Saturday December 8th	7	6	13	3	6	9	6	5	11	32	12	44	149	131	280
Sunday December 9th	5	5	10	13	19	32	1	2	3	25	7	32	99	86	185
Monday December 10th	19	14	33	4	12	16	17	13	30	13	15	28	128	162	290
Tuesday December 11th	6	9	15	5	11	16	5	6	11	21	14	35	152	162	314
Average Trips:	**13**	**11**	**24**	**7**	**13**	**20**	**9**	**7**	**16**	**19**	**13**	**32**	**149**	**154**	**303**
Maximum Trips:	**37**	**18**	**55**	**13**	**19**	**32**	**17**	**13**	**30**	**32**	**12**	**44**	**213**	**206**	**419**
Minimum Trips:	**5**	**5**	**10**	**3**	**6**	**9**	**1**	**2**	**3**	**15**	**7**	**22**	**99**	**86**	**185**
Total of 4 Typical Days (Tues-Thru)															
Tuesday December 4th	11	10	21	11	17	28	11	10	21	12	11	23	152	152	304
Wednesday December 5th	14	12	26	6	13	19	12	13	25	11	15	26	122	150	272
Thursday December 6th	37	18	55	3	10	13	15	5	20	15	7	22	213	206	419
Tuesday December 11th	6	9	15	5	11	16	5	6	11	21	14	35	152	162	314
Average Trips: /a/	**17**	**12**	**29**	**6**	**13**	**19**	**11**	**9**	**20**	**15**	**12**	**27**	**160**	**168**	**328**
Maximum Trips:	**37**	**18**	**55**	**11**	**17**	**28**	**12**	**13**	**25**	**21**	**14**	**35**	**213**	**206**	**419**
Minimum Trips:	**6**	**9**	**15**	**3**	**10**	**13**	**5**	**6**	**11**	**15**	**7**	**22**	**122**	**150**	**272**

Source: Machine (tube) counts conducted at the project site access points for eight consecutive days (from December 4th through December 11).
/a/ Data used to represent the amount of traffic currently generated by the project site for the trip generation analysis.

Table 2
Trip Generation Comparison

Land Use	Size	Daily Trip Rates	Daily Trips	Standard Peak Commute Hours								Peak HS Arrival & Departure Period					
				AM Peak Hour				PM Peak Hour				AM Arrival Period			PM Departure Period		
				Pk-Hr	Trips			Pk-Hr	Trips			Trips			Trips		
				Rate	In	Out	Total	Rate	In	Out	Total	In	Out	Total	In	Out	Total
Existing Use /a/																	
Convent			328		17	12	29		6	13	19	11	9	20	15	12	27
Proposed Use /b/ /c/																	
Single Family Residential	17 units	9.52	162	0.75	3	10	13	1.00	11	6	17	3	10	13	11	6	17
Change in Site-Generated Trips:			**-166**		**-14**	**-2**	**-16**		**5**	**-7**	**-2**	**-8**	**1**	**-7**	**-4**	**-6**	**-10**

Source:
/a/ Trip generation estimates for the existing uses were obtained from 24-hour mechanical (tube) counts conducted at the project site's access points for a period of eight consecutive days.
/b/ ITE Trip Generation, 9th Edition: Single-Family Detached Housing (210) rates (average rate) were used for the proposed residential units.
/c/ Trip rates for single-family detached housing are not available for the peak High School Departure period, therefore PM peak-hour estimates were used.

Appendix A

Traffic Count Data

Traffic Data Service -- Campbell, CA
Event Counts

EventCount-1077 -- English (ENU)

Datasets:

Site: **[1EB] EB DRIVEWAY # 1**
Input A: 2 - East bound. - Lane= 0, Added to totals. (/2.000)
Input B: 0 - Unused or unknown. - Lane= 0, Excluded from totals.
Data type: Axle sensors - Separate (Count)

Profile:

Name: Default Profile
Scheme: Count events divided by setup divisor
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

*** Tuesday, December 04, 2012=36, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**4**	**3**	**1**	**2**	**4**	**4**	**4**	**6**	**6**	**5**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	**1**	0	0	0	2	1	1	2	**3**	5	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**2**	0	0	0	1	0	0	0	**3**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**1**	3	0	2	1	3	2	**3**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**1**	0	0	1	0	1	0	2	**2**	1	0	0	0	0	0	0	0	0

AM Peak 0745 - 0845 (4), AM PHF=0.67 PM Peak 1530 - 1630 (9), PM PHF=0.90

*** Wednesday, December 05, 2012=39, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**5**	**2**	**4**	**5**	**6**	**5**	**3**	**5**	**2**	**1**	**1**	**0**	**0**	**0**	**0**	**1**	
0	0	0	0	0	0	0	0	0	1	0	**2**	2	**1**	0	1	1	1	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	2	0	1	**0**	1	**2**	1	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	2	**3**	**1**	1	0	3	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	3	1	**2**	0	**3**	1	2	1	0	1	0	0	0	0	0	0	0

AM Peak 1045 - 1145 (7), AM PHF=0.54 PM Peak 1230 - 1330 (7), PM PHF=0.65

*** Thursday, December 06, 2012=52, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**3**	**1**	**1**	**5**	**4**	**3**	**4**	**16**	**4**	**1**	**8**	**1**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	1	1	1	2	1	1	**2**	**3**	0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	3	0	0	4	1	1	1	**4**	1	0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	1	0	**6**	0	0	6	1	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	2	0	**3**	**5**	0	1	2	0	0	0	0	0	0	0	0	0

AM Peak 1145 - 1245 (14), AM PHF=0.58 PM Peak 1215 - 1315 (17), PM PHF=0.71

*** Friday, December 07, 2012=47, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**1**	**4**	**9**	**3**	**1**	**9**	**13**	**3**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	2	0	0	1	0	**1**	0	2	1	**3**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	2	1	0	**3**	0	1	2	**4**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	0	**4**	0	0	3	**2**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	3	**2**	2	0	3	**6**	0	0	0	1	0	0	0	0	0

AM Peak 1115 - 1215 (10), AM PHF=0.59 PM Peak 1515 - 1615 (15), PM PHF=0.60

*** Saturday, December 08, 2012=27, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**1**	**3**	**0**	**9**	**0**	**1**	**10**	**2**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	**0**	0	0	3	0	2	0	1	1	**2**	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	**2**	0	0	1	0	2	0	1	**0**	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	5	0	0	**2**	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	**0**	0	0	1	0	0	1	0	0	**7**	0	0	0	0	0

AM Peak 0930 - 1030 (2), AM PHF=0.25 PM Peak 1815 - 1915 (11), PM PHF=0.40

*** Sunday, December 09, 2012=28, 15 minute drops**

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**4**	**3**	**1**	**0**	**2**	**6**	**10**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	
0	0	0	0	0	0	0	1	0	1	**0**	0	0	0	0	2	**0**	0	0	0	0	0	0	2	0
0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	1	**5**	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	4	**4**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	**3**	3	1	0	2	0	**1**	0	0	0	0	0	0	0	0

AM Peak 1000 - 1100 (4), AM PHF=0.29 PM Peak 1600 - 1700 (10), PM PHF=0.53

* Monday, December 10, 2012=53, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**3**	**7**	**6**	**4**	**4**	**2**	**6**	**1**	**7**	**6**	**5**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	1	2	**3**	3	1	1	3	0	1	2	**5**	1	0	0	0	0	0	0	0
0	0	0	0	0	0	1	1	**1**	0	0	1	2	0	1	**2**	0	2	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**2**	1	0	0	1	0	3	**3**	0	1	0	0	0	0	0	0	0
0	0	0	0	0	1	1	**4**	1	0	4	0	0	1	3	**0**	0	0	0	0	0	0	0	0	0

AM Peak 0745 - 0845 (10), AM PHF=0.59 PM Peak 1515 - 1615 (9), PM PHF=0.45

* Tuesday, December 11, 2012=53, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**1**	**1**	**1**	**3**	**9**	**7**	**19**	**10**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	0	**4**	1	**15**	0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	1	1	**2**	0	**1**	0	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	0	**0**	1	**2**	2	4	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	0	**2**	4	**4**	2	5	0	1	0	0	0	0	0	0	0

AM Peak 1115 - 1215 (7), AM PHF=0.44 PM Peak 1315 - 1415 (22), PM PHF=0.36

Traffic Data Service -- Campbell, CA
Event Counts

EventCount-1103 -- English (ENU)

Datasets:

Site: **[1] DRIVEWAY #1**
Input A: 0 - Unused or unknown. - Lane= 0, Excluded from totals.
Input B: 4 - West bound. - Lane= 0, Added to totals. (/2.000)
Data type: Axle sensors - Separate (Count)

Profile:

Name: Default Profile
Scheme: Count events divided by setup divisor
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012=24, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**	**12**	**2**	**0**	**3**	**0**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	0	**0**	2	0	**0**	0	2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	3	**0**	0	0	**0**	0	0	2	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**8**	0	0	**3**	0	0	0	0	0	0	0	0	0	0

AM Peak 1100 - 1200 (12), AM PHF=0.38 PM Peak 1400 - 1500 (3), PM PHF=0.25

* Wednesday, December 05, 2012=10, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**4**	**0**	**0**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	
0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**0**	**0**	0	0	2	0	0	0	0	0	0	0	2	0
0	0	0	0	0	0	0	0	0	1	0	**0**	**2**	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 1115 - 1215 (2), AM PHF=0.25 PM Peak 1200 - 1300 (4), PM PHF=0.50

* Thursday, December 06, 2012=47, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**11**	**4**	**5**	**8**	**2**	**2**	**0**	**3**	**1**	**5**	**2**	**3**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	**2**	2	0	1	2	0	0	1	0	**0**	1	0	0	0	0	0	0	0	0
0	0	0	0	0	**5**	0	1	4	1	0	0	1	0	1	**2**	2	0	0	0	0	0	0	0	0
0	0	0	0	0	**6**	0	1	4	0	0	0	2	0	**2**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	**0**	2	1	1	0	0	0	0	0	**2**	0	0	0	2	0	0	0	0	0	0

AM Peak 0515 - 0615 (13), AM PHF=0.54 PM Peak 1430 - 1530 (6), PM PHF=0.69

* Friday, December 07, 2012=25, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**2**	**2**	**0**	**0**	**1**	**7**	**0**	**0**	**6**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	1	**0**	0	0	2	**2**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	0	**2**	0	0	0	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	0	**5**	0	0	2	**5**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	2	0	0	0	**0**	0	0	0	**3**	2	0	0	0	0	0	0	0	0	0

AM Peak 1045 - 1145 (7), AM PHF=0.33 PM Peak 1445 - 1545 (9), PM PHF=0.50

* Saturday, December 08, 2012=44, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**8**	**4**	**2**	**8**	**17**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	3	0	**4**	0	0	**9**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**6**	0	2	3	**5**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	**4**	0	0	0	0	3	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**5**	0	0	0	0	0	0	0	0	0	0

AM Peak 1115 - 1215 (12), AM PHF=0.52 PM Peak 1445 - 1545 (22), PM PHF=0.63

* Sunday, December 09, 2012=37, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	**4**	**0**	**4**	**11**	**1**	**7**	**0**	**2**	**0**	**0**	**0**	**0**	**2**	
0	0	0	0	0	0	0	0	0	0	**0**	0	0	4	0	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	**6**	0	0	0	**2**	0	3	0	0	0	0	0	0	2	0
0	0	0	0	0	0	0	0	0	0	**2**	0	0	0	**5**	0	2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	**0**	0	4	0	**4**	0	2	0	2	0	0	0	0	0	0

AM Peak 0945 - 1045 (7), AM PHF=0.32 PM Peak 1415 - 1515 (12), PM PHF=0.64

* Monday, December 10, 2012=29, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**2**	**4**	**9**	**1**	**2**	**1**	**2**	**0**	**0**	**4**	**3**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**2**	1	0	0	0	0	0	0	**2**	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	4	**0**	0	0	0	2	0	0	0	**0**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	1	0	0	0	0	1	**2**	2	0	0	0	0	0	0	0	0
0	0	0	0	0	2	0	**7**	0	1	1	0	0	0	**3**	0	0	0	0	0	0	0	0	0	0

AM Peak 0700 - 0800 (9), AM PHF=0.33 PM Peak 1445 - 1545 (6), PM PHF=0.55

* Tuesday, December 11, 2012=35, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**1**	**0**	**15**	**8**	**0**	**8**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	**2**	**2**	0	2	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	2	0	0	**3**	**2**	0	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**5**	**0**	0	0	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	1	0	**5**	**4**	0	5	0	0	0	0	0	0	0	0	0	0

AM Peak 1100 - 1200 (15), AM PHF=0.72 PM Peak 1200 - 1300 (8), PM PHF=0.47

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1092 -- English (ENU)

Datasets:
Site: **[2EB] EB DRIVEWAY #2**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: East (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=6, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
1	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**4**	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	**1**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0

AM Peak 0000 - 0100 (1), AM PHF=0.25 PM Peak 2245 - 2345 (4), PM PHF=0.50

* Wednesday, December 05, 2012 - Total=2, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 2245 - 2345 (2), PM PHF=0.50

* Thursday, December 06, 2012 - Total=6, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**3**	
0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	**1**	0
0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	1	0	0	**0**	0
0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	**2**	0
0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	**1**	0	0

AM Peak 1115 - 1215 (1), AM PHF=0.25 PM Peak 2245 - 2345 (4), PM PHF=0.50

* Friday, December 07, 2012 - Total=4, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 2245 - 2345 (4), PM PHF=0.50

* Saturday, December 08, 2012 - Total=2, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 2130 - 2230 (1), PM PHF=0.25

* Sunday, December 09, 2012 - Total=3, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**1**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 1815 - 1915 (1), PM PHF=0.25

* Monday, December 10, 2012 - Total=6, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**1**	**3**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	**0**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	**2**	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	1	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 2245 - 2345 (3), PM PHF=0.38

* Tuesday, December 11, 2012 - Total=6, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	
0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	**0**	0
0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	**1**	0
0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	**4**	0
0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	**0**	0	0

AM Peak 1115 - 1215 (1), AM PHF=0.25 PM Peak 2245 - 2345 (5), PM PHF=0.31

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1091 -- English (ENU)

Datasets:
Site: **[2WB] WB DRIVEWAY #2**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: West (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=49, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**1**	**4**	**1**	**1**	**5**	**7**	**2**	**2**	**5**	**5**	**7**	**0**	**2**	**0**	**1**	**2**	**0**	**2**	**1**	
0	0	0	0	0	0	1	0	0	3	**1**	1	1	0	**2**	2	0	1	0	0	1	0	0	1	0
0	0	0	0	1	0	2	1	0	0	**3**	0	1	2	**1**	1	0	0	0	0	1	0	1	0	0
0	0	0	0	0	0	0	0	0	1	**3**	0	0	0	**2**	0	0	1	0	1	0	0	1	0	0
0	0	0	0	0	1	1	0	1	**1**	0	1	0	**3**	0	4	0	0	0	0	0	0	0	0	0

AM Peak 0945 - 1045 (8), AM PHF=0.67 PM Peak 1345 - 1445 (8), PM PHF=0.67

* Wednesday, December 05, 2012 - Total=38, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**1**	**3**	**3**	**4**	**3**	**5**	**4**	**0**	**3**	**2**	**1**	**3**	**2**	**0**	**0**	**0**	**0**	**3**	**0**	
0	0	0	0	0	0	1	2	0	0	1	**1**	0	0	**0**	1	2	1	0	0	0	0	1	0	0
0	0	0	0	0	0	1	1	1	1	2	**2**	0	0	**2**	0	1	0	0	0	0	0	0	0	0
0	0	0	0	1	0	1	0	0	0	0	**1**	0	**2**	0	0	0	1	0	0	0	0	1	0	0
0	0	0	0	0	1	0	0	3	2	**2**	0	0	**1**	0	0	0	0	0	0	0	0	1	0	0

AM Peak 1045 - 1145 (6), AM PHF=0.75 PM Peak 1330 - 1430 (5), PM PHF=0.63

* Thursday, December 06, 2012 - Total=52, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**8**	**10**	**8**	**9**	**2**	**1**	**3**	**3**	**0**	**1**	**0**	**0**	**2**	**1**	**3**	**0**	
0	0	0	0	0	0	0	0	0	**2**	3	4	1	0	**1**	1	0	0	0	0	1	1	1	0	0
0	0	0	0	0	1	0	0	1	**3**	4	3	1	0	**1**	0	0	0	0	0	1	0	1	0	0
0	0	0	0	0	0	0	0	0	**3**	1	1	0	**0**	0	1	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**7**	2	0	1	0	**1**	1	1	0	0	0	0	0	0	1	0	0

AM Peak 0845 - 0945 (15), AM PHF=0.54 PM Peak 1330 - 1430 (3), PM PHF=0.75

* Friday, December 07, 2012 - Total=49, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**3**	**1**	**1**	**3**	**10**	**5**	**5**	**1**	**4**	**2**	**4**	**4**	**1**	**0**	**1**	**0**	**2**	**1**	
0	0	0	0	0	1	2	0	0	2	**5**	3	**2**	0	2	2	2	1	1	0	1	0	2	1	0
0	0	0	0	0	0	0	0	0	1	**1**	0	**1**	1	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	**2**	2	**0**	0	1	0	0	3	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	1	0	**2**	0	**2**	0	1	0	1	0	0	0	0	0	0	0	0

AM Peak 1000 - 1100 (10), AM PHF=0.50 PM Peak 1200 - 1300 (5), PM PHF=0.63

* Saturday, December 08, 2012 - Total=35, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**2**	**3**	**1**	**0**	**6**	**1**	**3**	**2**	**1**	**8**	**2**	**0**	**0**	**1**	**0**	**1**	**3**	**0**	
0	0	0	0	0	0	0	1	0	0	**1**	0	1	0	0	**1**	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	1	0	0	0	**0**	1	0	1	0	**2**	0	0	0	1	0	0	2	0	0
0	0	0	0	0	1	1	1	1	0	**2**	0	0	0	0	**3**	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	**3**	0	2	1	1	**2**	1	0	0	0	0	1	0	0	0

AM Peak 1000 - 1100 (6), AM PHF=0.50 PM Peak 1500 - 1600 (8), PM PHF=0.67

* Sunday, December 09, 2012 - Total=28, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**2**	**1**	**1**	**1**	**2**	**0**	**0**	**0**	**0**	**6**	**4**	**1**	**1**	**0**	**3**	**1**	**1**	**4**	**0**	
0	0	0	0	0	**0**	0	1	0	0	0	0	0	0	1	**2**	0	0	0	1	1	1	1	0	0
0	0	0	0	0	**0**	0	0	1	1	0	0	0	0	0	**2**	0	0	0	1	0	0	2	0	0
0	0	0	0	0	**1**	1	0	0	0	0	0	0	0	**3**	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	**1**	0	0	0	1	0	0	0	0	**2**	0	1	1	0	1	0	0	0	0	0

AM Peak 0500 - 0600 (2), AM PHF=0.50 PM Peak 1430 - 1530 (9), PM PHF=0.75

* Monday, December 10, 2012 - Total=35, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**7**	**3**	**3**	**5**	**3**	**0**	**2**	**3**	**1**	**0**	**1**	**1**	**0**	**1**	**2**	**1**	
0	0	0	0	0	0	0	0	**3**	2	0	1	**0**	0	1	2	1	0	0	1	0	0	1	0	0
0	0	0	0	1	0	0	0	**0**	0	3	1	**3**	0	1	1	0	0	1	0	0	0	1	0	0
0	0	0	0	0	0	0	0	**3**	1	0	2	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**1**	1	0	0	1	**0**	0	0	0	0	0	0	0	0	1	0	1	0

AM Peak 0745 - 0845 (7), AM PHF=0.58 PM Peak 1200 - 1300 (3), PM PHF=0.25

* Tuesday, December 11, 2012 - Total=51, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**0**	**5**	**2**	**2**	**8**	**9**	**4**	**5**	**1**	**5**	**1**	**1**	**0**	**1**	**0**	**1**	**1**	**3**	**1**	
0	0	0	0	0	0	1	1	0	1	**1**	3	**2**	0	1	0	0	0	1	0	0	1	2	0	0
0	0	0	0	1	0	1	1	1	1	**2**	0	**1**	0	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	1	0	1	1	**3**	1	**0**	1	2	0	1	0	0	0	1	0	0	1	0
0	0	0	0	0	0	2	0	0	**5**	3	0	**2**	0	2	1	0	0	0	0	0	0	0	0	0

AM Peak 0945 - 1045 (11), AM PHF=0.55 PM Peak 1200 - 1300 (5), PM PHF=0.63

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1094 -- English (ENU)

Datasets:
Site: **[3EB] EB DRIVEWAY #3**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: East (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=40, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**2**	**0**	**2**	**3**	**4**	**3**	**2**	**3**	**3**	**3**	**4**	**3**	**1**	**3**	**0**	**2**	**2**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**0**	1	0	1	2	1	1	**2**	0	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	1	**3**	0	0	0	0	2	0	**1**	0	1	1	0	0	0	0	0	0	0
0	0	0	0	0	0	**1**	0	2	3	1	1	0	**1**	1	0	0	2	0	0	0	0	0	0	0
0	0	0	0	2	0	**0**	0	1	0	0	0	0	**1**	0	3	0	0	0	2	1	0	0	0	0

AM Peak 0630 - 0730 (4), AM PHF=0.33 PM Peak 1330 - 1430 (5), PM PHF=0.63

* Wednesday, December 05, 2012 - Total=40, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**2**	**0**	**6**	**4**	**1**	**4**	**3**	**2**	**4**	**4**	**4**	**2**	**2**	**1**	**0**	**1**	**0**	**0**	**0**	
0	0	0	0	0	1	0	**0**	0	1	1	1	1	1	**0**	0	1	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**3**	1	0	0	2	0	0	**2**	2	1	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	**3**	1	0	0	0	0	**1**	1	2	0	0	1	0	0	0	0	0	0
0	0	0	0	0	1	**0**	0	2	0	3	0	1	**2**	1	0	0	1	0	0	0	0	0	0	0

AM Peak 0645 - 0745 (6), AM PHF=0.50 PM Peak 1330 - 1430 (5), PM PHF=0.63

* Thursday, December 06, 2012 - Total=64, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**2**	**2**	**7**	**16**	**5**	**4**	**3**	**5**	**2**	**6**	**0**	**2**	**4**	**6**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	1	1	2	**4**	1	0	1	2	0	1	0	0	0	**2**	0	0	0	0	0
0	0	0	0	0	0	1	0	0	**8**	1	4	1	1	0	3	0	0	2	**2**	0	0	0	0	0
0	0	0	0	0	0	0	0	1	**2**	3	0	1	2	0	0	0	0	0	**1**	0	0	0	0	0
0	0	0	0	0	0	0	1	**4**	2	0	0	0	0	2	2	0	2	**2**	1	0	0	0	0	0

AM Peak 0845 - 0945 (18), AM PHF=0.56 PM Peak 1845 - 1945 (7), PM PHF=0.88

* Friday, December 07, 2012 - Total=42, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**0**	**4**	**5**	**2**	**3**	**3**	**4**	**5**	**3**	**4**	**4**	**1**	**1**	**2**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	2	0	**1**	1	0	0	**1**	0	0	2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	**1**	0	0	1	1	**0**	0	1	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	**1**	1	1	2	0	**3**	1	1	0	1	1	0	0	0	0	0	0
0	0	0	0	0	1	0	0	**3**	0	1	0	**3**	1	2	2	1	0	0	2	0	0	0	0	0

AM Peak 0815 - 0915 (6), AM PHF=0.50 PM Peak 1245 - 1345 (7), PM PHF=0.58

* Saturday, December 08, 2012 - Total=29, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**2**	**3**	**2**	**6**	**2**	**5**	**0**	**2**	**4**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	**0**	0	**0**	0	1	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**1**	0	**2**	1	1	0	1	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	**2**	1	0	**1**	1	3	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	2	0	0	**0**	1	2	**3**	0	0	0	0	3	0	0	0	0	0	0

AM Peak 1030 - 1130 (3), AM PHF=0.38 PM Peak 1300 - 1400 (6), PM PHF=0.50

* Sunday, December 09, 2012 - Total=13, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**1**	**0**	**1**	**1**	**4**	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**1**	0	0	1	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	0	1	0	**2**	0	1	0	1	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	1	0	0	**1**	0	1	0	1	0	0	0	0	0	0

AM Peak 0615 - 0715 (1), AM PHF=0.25 PM Peak 1445 - 1545 (5), PM PHF=0.63

* Monday, December 10, 2012 - Total=38, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**2**	**2**	**4**	**5**	**2**	**3**	**2**	**0**	**5**	**3**	**7**	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	2	3	**1**	0	2	1	0	1	1	0	**1**	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	1	**2**	0	0	1	0	1	2	**4**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	**1**	1	0	0	0	0	0	**2**	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**1**	1	1	0	0	3	0	**1**	0	1	0	0	0	0	0	0	0

AM Peak 0800 - 0900 (5), AM PHF=0.63 PM Peak 1515 - 1615 (8), PM PHF=0.50

* Tuesday, December 11, 2012 - Total=29, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**2**	**4**	**4**	**7**	**2**	**4**	**1**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	1	0	0	0	**1**	0	**0**	1	1	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	**0**	0	**2**	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	1	1	**3**	**2**	0	2	0	2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	1	**2**	0	**5**	0	1	0	0	0	0	0	0	0	0	0	0

AM Peak 1045 - 1145 (6), AM PHF=0.50 PM Peak 1230 - 1330 (9), PM PHF=0.45

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1093 -- English (ENU)

Datasets:
Site: **[3WB] WB DRIVEWAY #3**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: West (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=46, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**2**	**0**	**2**	**2**	**4**	**3**	**1**	**4**	**8**	**4**	**4**	**3**	**2**	**4**	**1**	**1**	**1**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	2	1	0	1	**4**	0	1	0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	1	1	0	0	0	0	**1**	1	2	1	2	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	2	2	1	**3**	**1**	0	1	0	0	3	0	0	0	0	0	0	0
0	0	0	0	2	0	1	1	0	0	0	**0**	**2**	3	0	2	0	0	0	1	1	0	0	0	0

AM Peak 1130 - 1230 (8), AM PHF=0.50 PM Peak 1200 - 1300 (8), PM PHF=0.50

* Wednesday, December 05, 2012 - Total=35, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**2**	**1**	**4**	**3**	**1**	**4**	**3**	**2**	**5**	**4**	**3**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	1	1	0	1	0	1	**0**	1	3	0	**2**	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	2	0	0	0	**3**	0	1	**2**	1	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	2	1	0	**2**	0	1	0	**1**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	1	1	**1**	0	0	1	**1**	0	0	1	0	0	0	0	0	0	0

AM Peak 1030 - 1130 (6), AM PHF=0.50 PM Peak 1415 - 1515 (6), PM PHF=0.75

* Thursday, December 06, 2012 - Total=70, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**7**	**3**	**11**	**13**	**2**	**4**	**7**	**3**	**5**	**5**	**1**	**1**	**6**	**2**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	4	1	3	**4**	0	0	**4**	2	0	1	1	0	1	2	0	0	0	0	0
0	0	0	0	0	0	2	1	1	**8**	2	4	**2**	0	1	2	0	0	2	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**0**	0	0	0	**1**	1	3	0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	1	1	**7**	1	0	0	**0**	0	1	2	0	1	2	0	0	0	0	0	0

AM Peak 0830 - 0930 (19), AM PHF=0.59 PM Peak 1200 - 1300 (7), PM PHF=0.44

* Friday, December 07, 2012 - Total=50, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**0**	**7**	**2**	**2**	**7**	**5**	**3**	**3**	**5**	**5**	**2**	**4**	**0**	**3**	**1**	**0**	**0**	**0**	
0	0	0	0	0	0	0	4	0	0	0	**0**	1	0	0	**1**	2	2	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	**2**	1	0	0	**1**	0	1	0	0	1	0	0	0	0
0	0	0	0	0	0	0	2	0	1	**3**	2	0	3	**3**	2	0	1	0	1	0	0	0	0	0
0	0	0	0	0	1	0	1	2	1	**3**	1	1	0	**2**	1	0	0	0	2	0	0	0	0	0

AM Peak 1030 - 1130 (8), AM PHF=0.67 PM Peak 1430 - 1530 (7), PM PHF=0.58

* Saturday, December 08, 2012 - Total=29, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**2**	**5**	**2**	**4**	**4**	**8**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	**2**	0	0	2	**3**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	1	**2**	0	1	1	**4**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	0	**1**	2	3	**1**	0	0	0	2	0	0	0	0	0	0

AM Peak 1100 - 1200 (5), AM PHF=0.63 PM Peak 1445 - 1545 (9), PM PHF=0.56

* Sunday, December 09, 2012 - Total=12, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**5**	**0**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**2**	0	0	0	0	0	0	0	**1**	0	2	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	**3**	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	1	0	0	**1**	1	0	0	0	0	0	0	0	0	0

AM Peak 0615 - 0715 (2), AM PHF=0.25 PM Peak 1430 - 1530 (5), PM PHF=0.42

* Monday, December 10, 2012 - Total=35, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**4**	**1**	**4**	**4**	**1**	**2**	**2**	**0**	**2**	**5**	**6**	**1**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	**1**	3	2	0	0	1	0	0	2	0	**1**	0	0	1	0	0	0	0	0
0	0	0	0	0	**3**	0	0	1	0	0	0	0	1	2	**4**	0	2	0	0	0	0	0	0	0
0	0	0	0	0	**1**	0	1	0	1	1	1	0	0	1	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	**0**	0	0	1	0	1	0	0	1	0	**1**	0	0	0	0	0	0	0	0	0

AM Peak 0515 - 0615 (5), AM PHF=0.42 PM Peak 1515 - 1615 (7), PM PHF=0.44

* Tuesday, December 11, 2012 - Total=31, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**0**	**2**	**2**	**4**	**3**	**5**	**1**	**2**	**6**	**2**	**1**	**0**	**1**	**0**	**1**	**0**	**0**	**0**	
0	0	0	0	0	1	0	1	1	0	**0**	1	0	0	0	**1**	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	1	**1**	3	0	2	**1**	0	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	**2**	1	0	0	**4**	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	**3**	0	0	1	0	**1**	1	0	0	0	0	0	0	0	0	0

AM Peak 0945 - 1045 (6), AM PHF=0.50 PM Peak 1415 - 1515 (7), PM PHF=0.44

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1096 -- English (ENU)

Datasets:
Site: **[4EB] EB DRIVEWAY #4**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: East (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=24, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**1**	**1**	**0**	**1**	**1**	**1**	**2**	**5**	**5**	**2**	**1**	**0**	**2**	**0**	**0**	
0	0	0	0	0	0	0	0	**1**	0	0	0	1	1	0	0	0	**2**	1	1	0	1	0	0	0
0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	1	0	1	**2**	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**0**	0	1	0	0	0	0	2	**4**	1	1	0	0	1	0	0	0
0	0	0	0	0	0	0	0	**1**	1	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0

AM Peak 0800 - 0900 (2), AM PHF=0.50 PM Peak 1630 - 1730 (8), PM PHF=0.50

* Wednesday, December 05, 2012 - Total=30, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**2**	**1**	**1**	**2**	**0**	**1**	**4**	**5**	**3**	**4**	**3**	**1**	**0**	**2**	**0**	**0**	
0	0	0	0	0	0	0	0	**2**	0	0	1	0	0	2	0	**0**	1	2	0	0	1	0	0	0
0	0	0	0	0	0	0	**1**	0	1	0	0	0	0	0	0	**2**	1	1	1	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	0	1	0	0	1	**4**	1	0	0	0	0	1	0	0	0
0	0	0	0	0	0	0	**0**	0	0	1	0	0	1	1	**1**	0	2	0	0	0	0	0	0	0

AM Peak 0715 - 0815 (3), AM PHF=0.38 PM Peak 1530 - 1630 (7), PM PHF=0.44

* Thursday, December 06, 2012 - Total=41, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**4**	**5**	**1**	**1**	**5**	**3**	**2**	**9**	**1**	**2**	**2**	**0**	**0**	**2**	**0**	**0**	
0	0	0	0	0	0	0	3	0	**1**	0	0	0	1	0	**1**	0	1	1	0	0	2	0	0	0
0	0	0	0	0	0	0	0	0	**4**	0	0	0	2	0	**0**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**1**	0	1	1	3	0	2	**6**	1	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	1	**3**	0	0	0	2	0	0	**2**	0	1	0	0	0	0	0	0	0

AM Peak 0830 - 0930 (9), AM PHF=0.56 PM Peak 1500 - 1600 (9), PM PHF=0.38

* Friday, December 07, 2012 - Total=38, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**2**	**0**	**3**	**4**	**11**	**5**	**3**	**0**	**2**	**0**	**1**	**2**	**2**	
0	0	0	0	0	0	0	0	0	0	0	**1**	0	1	0	**1**	0	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	2	**3**	2	3	0	0	0	0	1	0	0
0	0	0	0	0	0	0	1	0	0	0	**1**	0	2	2	**6**	2	0	0	1	0	1	0	2	0
0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	0	0	**1**	1	0	0	0	0	0	1	0	0

AM Peak 1045 - 1145 (4), AM PHF=0.50 PM Peak 1500 - 1600 (11), PM PHF=0.46

* Saturday, December 08, 2012 - Total=30, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**1**	**0**	**0**	**2**	**0**	**0**	**0**	**1**	**0**	**2**	**0**	**3**	**3**	**4**	**0**	**0**	**4**	**4**	**4**	**1**	**1**	**0**	
0	0	0	0	0	**0**	0	0	0	1	0	1	0	1	0	**0**	0	0	1	2	1	0	0	0	0
0	0	0	0	0	**0**	0	0	0	0	0	1	0	1	1	**1**	0	0	1	0	1	1	0	0	0
0	0	0	0	0	**0**	0	0	0	0	0	0	0	1	0	**3**	0	0	0	1	0	0	1	0	0
0	0	1	0	0	**2**	0	0	0	0	0	0	0	0	0	**2**	0	0	0	2	1	2	0	0	0

AM Peak 0500 - 0600 (2), AM PHF=0.25 PM Peak 1445 - 1545 (6), PM PHF=0.50

* Sunday, December 09, 2012 - Total=18, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**1**	**1**	**1**	**1**	**1**	**3**	**3**	**3**	**2**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**0**	0	0	1	1	0	0	0	0	0	**1**	1	2	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	0	0	0	1	1	0	**2**	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	1	**1**	1	2	0	0	0	0	0	0
0	0	0	0	0	0	0	**1**	0	0	0	0	1	0	0	0	**0**	0	0	0	0	0	0	0	0

AM Peak 0700 - 0800 (1), AM PHF=0.25 PM Peak 1615 - 1715 (4), PM PHF=0.50

* Monday, December 10, 2012 - Total=20, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**1**	**2**	**0**	**1**	**2**	**5**	**2**	**2**	**1**	**0**	**0**	**1**	**0**	**0**	
0	0	0	0	0	0	1	0	0	0	**1**	1	0	0	0	**0**	0	0	0	0	0	1	0	0	0
0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	1	**3**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**1**	0	1	0	1	1	**2**	1	1	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	**0**	0	0	0	0	**0**	0	1	1	1	0	0	0	0	0	0

AM Peak 0915 - 1015 (2), AM PHF=0.50 PM Peak 1445 - 1545 (5), PM PHF=0.42

* Tuesday, December 11, 2012 - Total=33, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**	**1**	**1**	**1**	**3**	**10**	**4**	**3**	**2**	**0**	**1**	**2**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	**0**	0	0	1	1	**0**	0	1	0	0	0	1	0	0	0
0	0	0	0	0	0	0	1	0	0	**2**	0	0	0	0	**4**	0	1	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	**1**	1	0	0	2	**3**	3	0	0	0	0	1	0	0	0
0	0	1	0	0	0	0	0	0	**0**	0	0	1	0	0	**3**	1	1	1	0	1	0	0	0	0

AM Peak 0945 - 1045 (3), AM PHF=0.38 PM Peak 1500 - 1600 (10), PM PHF=0.63

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1095 -- English (ENU)

Datasets:
Site: **[4WB] WB DRIVEWAY #4**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: West (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=13, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**5**	**2**	**2**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**1**	1	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0
0	0	0	0	0	0	**1**	0	0	1	0	0	0	0	0	0	0	**1**	1	0	0	0	0	0	0
0	0	0	0	0	0	**4**	1	1	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0

AM Peak 0615 - 0715 (6), AM PHF=0.38 PM Peak 1645 - 1745 (2), PM PHF=0.50

* Wednesday, December 05, 2012 - Total=11, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**5**	**3**	**0**	**1**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**1**	0	0	1	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**1**	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**4**	2	0	1	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0615 - 0715 (6), AM PHF=0.38 PM Peak 1200 - 1300 (1), PM PHF=0.25

* Thursday, December 06, 2012 - Total=11, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**0**	**5**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0
0	0	0	0	1	0	**5**	1	0	0	0	0	0	0	0	0	**0**	0	0	0	1	0	0	0	0

AM Peak 0630 - 0730 (7), AM PHF=0.35 PM Peak 1515 - 1615 (1), PM PHF=0.25

* Friday, December 07, 2012 - Total=19, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**1**	**3**	**2**	**1**	**0**	**0**	**1**	**0**	**1**	**2**	**2**	**0**	**0**	**0**	**5**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**2**	0	0	0	1	0	0	1	2	0	0	0	**4**	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	1	0	0	0	0	**0**	0	0	0	0	0
0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0
0	0	0	0	1	1	**2**	0	1	0	0	0	0	1	0	0	0	0	0	**1**	0	0	0	0	0

AM Peak 0615 - 0715 (5), AM PHF=0.63 PM Peak 1900 - 2000 (5), PM PHF=0.31

* Saturday, December 08, 2012 - Total=16, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**1**	**2**	**1**	**1**	**0**	**0**	**3**	**1**	**2**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**1**	0	0	0	1	1	0	**1**	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	0	**2**	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	**1**	0	0	0	0	0	0	**0**	0	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	**1**	0	1	0	0	2	0	**0**	1	0	0	0	0	0	0	0	0	0	0

AM Peak 0615 - 0715 (3), AM PHF=0.75 PM Peak 1315 - 1415 (3), PM PHF=0.38

* Sunday, December 09, 2012 - Total=8, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**1**	**1**	**1**	**0**	**0**	**0**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**1**	0	0	1	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	1	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	**1**	0	1	0	0	0	0	**1**	0	1	0	0	0	0	0	0	0	0

AM Peak 0700 - 0800 (2), AM PHF=0.50 PM Peak 1400 - 1500 (1), PM PHF=0.25

* Monday, December 10, 2012 - Total=12, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**1**	**3**	**1**	**1**	**0**	**1**	**0**	**2**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**1**	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	1	**3**	0	1	0	1	0	**2**	0	0	0	2	0	0	0	0	0	0	0	0

AM Peak 0615 - 0715 (4), AM PHF=0.33 PM Peak 1200 - 1300 (2), PM PHF=0.25

* Tuesday, December 11, 2012 - Total=14, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**5**	**2**	**1**	**0**	**2**	**0**	**0**	**0**	**1**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**2**	0	0	2	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**2**	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	**3**	0	1	0	0	0	0	**0**	0	0	1	0	0	0	1	0	0	0	0

AM Peak 0615 - 0715 (7), AM PHF=0.58 PM Peak 1330 - 1430 (1), PM PHF=0.25

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1098 -- English (ENU)

Datasets:
Site: **[5EB] EB DRIVEWAY #5**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: East (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=4, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	
0	0	**0**	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	**0**	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	1	0	0	0
0	0	**1**	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	**0**	0	0	0	0	0	0	0	0	0	0	**0**	0	0	1	0	0	0	0	0	0	0	0	0

AM Peak 0145 - 0245 (1), AM PHF=0.25 PM Peak 1200 - 1300 (1), PM PHF=0.25

* Wednesday, December 05, 2012 - Total=4, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	**1**	0	0	0	**1**	0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**0**	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**0**	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**0**	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0815 - 0915 (1), AM PHF=0.25 PM Peak 1215 - 1315 (2), PM PHF=0.50

* Thursday, December 06, 2012 - Total=1, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 2130 - 2230 (1), PM PHF=0.25

* Friday, December 07, 2012 - Total=6, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**2**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	1	0	**0**	0	0	0	0	**1**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	0	0	**1**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	1	0	0	0	0

AM Peak 1045 - 1145 (2), AM PHF=0.25 PM Peak 1545 - 1645 (2), PM PHF=0.50

* Saturday, December 08, 2012 - Total=4, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	
0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	**0**	0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0

AM Peak 0700 - 0800 (1), AM PHF=0.25 PM Peak 1400 - 1500 (1), PM PHF=0.25

* Sunday, December 09, 2012 - Total=1, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 1430 - 1530 (1), PM PHF=0.25

* Monday, December 10, 2012 - Total=2, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 1330 - 1430 (1), PM PHF=0.25

* Tuesday, December 11, 2012 - Total=2, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**1**	0	0	0	1	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0630 - 0730 (1), AM PHF=0.25 PM Peak 1200 - 1300 (0), PM PHF=1.00

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1097 -- English (ENU)

Datasets:
Site: **[5WB] WB DRIVEWAY #5**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: West (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=17, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**1**	**2**	**2**	**2**	**3**	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	**0**	1	2	**1**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	2	0	**1**	0	0	**1**	0	1	0	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	0	**1**	1	0	**1**	0	0	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**1**	0	0	0	**0**	1	0	0	1	0	0	0	0	0	0	0	0

AM Peak 0845 - 0945 (3), AM PHF=0.75 PM Peak 1200 - 1300 (3), PM PHF=0.75

* Wednesday, December 05, 2012 - Total=26, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**2**	**4**	**1**	**2**	**1**	**2**	**3**	**1**	**3**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	**2**	1	1	0	2	1	0	0	**1**	0	0	0	0	0	0	0
0	0	0	0	0	0	0	2	0	**1**	0	0	0	0	0	0	**0**	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	1	**1**	0	0	1	0	0	0	1	**0**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	**1**	1	0	0	1	0	2	0	**3**	1	0	0	0	0	0	0	0

AM Peak 0830 - 0930 (5), AM PHF=0.63 PM Peak 1615 - 1715 (4), PM PHF=0.33

* Thursday, December 06, 2012 - Total=30, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**9**	**11**	**2**	**1**	**1**	**1**	**1**	**0**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	3	**5**	1	1	**1**	1	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**3**	0	0	**0**	0	0	0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	1	**3**	1	1	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	**3**	2	0	0	**0**	0	1	0	1	0	0	0	0	0	0	0	0

AM Peak 0830 - 0930 (14), AM PHF=0.70 PM Peak 1200 - 1300 (1), PM PHF=0.25

* Friday, December 07, 2012 - Total=24, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**3**	**1**	**2**	**0**	**2**	**3**	**2**	**2**	**5**	**2**	**0**	**0**	**0**	**0**	**0**	**1**	
0	0	0	0	0	0	0	0	**1**	0	1	0	0	0	0	1	**2**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**2**	1	0	0	0	1	2	0	**0**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	1	0	1	1	0	0	**2**	2	0	0	0	0	0	1	0
0	0	0	0	0	0	1	**0**	0	0	0	0	1	1	0	**1**	1	0	0	0	0	0	0	0	0

AM Peak 0730 - 0830 (3), AM PHF=0.38 PM Peak 1545 - 1645 (5), PM PHF=0.63

* Saturday, December 08, 2012 - Total=19, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**2**	**1**	**0**	**5**	**1**	**0**	**3**	**4**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**0**	
0	0	0	0	0	0	0	0	1	0	0	**1**	1	0	1	**2**	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	1	0	**2**	0	0	**1**	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	0	**0**	0	0	**1**	1	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	1	0	0	0	**2**	0	0	**0**	0	0	0	0	0	0	0	0	0	0

AM Peak 1100 - 1200 (5), AM PHF=0.63 PM Peak 1415 - 1515 (4), PM PHF=0.50

* Sunday, December 09, 2012 - Total=11, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**0**	**0**	**3**	**0**	**0**	**2**	**1**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	**1**	0	1	0	0	**0**	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	**0**	0	0	1	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	**0**	0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**0**	0	0	1	0	0	**3**	0	0	0	0	0	0	0	0	0	0

AM Peak 0830 - 0930 (2), AM PHF=0.50 PM Peak 1400 - 1500 (3), PM PHF=0.25

* Monday, December 10, 2012 - Total=12, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**2**	**6**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	1	0	1	**2**	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	**0**	0	1	0	0	**1**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**1**	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	**3**	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0900 - 1000 (6), AM PHF=0.50 PM Peak 1330 - 1430 (1), PM PHF=0.25

* Tuesday, December 11, 2012 - Total=16, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**3**	**3**	**3**	**0**	**0**	**2**	**3**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	1	0	**1**	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**1**	1	1	0	0	0	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**1**	1	1	0	0	**2**	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**1**	0	1	0	0	**0**	0	1	0	0	0	0	0	0	0	0

AM Peak 0915 - 1015 (4), AM PHF=1.00 PM Peak 1430 - 1530 (4), PM PHF=0.50

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1089 -- English (ENU)

Datasets:
Site: **[6NB] NB DRIVEWAY #6**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: North (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=2, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	**1**	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	1	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0715 - 0815 (1), AM PHF=0.25 PM Peak 1200 - 1300 (0), PM PHF=1.00

* Wednesday, December 05, 2012 - Total=2, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0

AM Peak 0900 - 1000 (1), AM PHF=0.25 PM Peak 1830 - 1930 (1), PM PHF=0.25

* Thursday, December 06, 2012 - Total=1, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 1700 - 1800 (1), PM PHF=0.25

* Friday, December 07, 2012 - Total=5, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**1**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	**0**	0	0	0	1	0	0	0
0	0	0	0	0	0	0	0	**0**	0	1	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0

AM Peak 0715 - 0815 (1), AM PHF=0.25 PM Peak 1630 - 1730 (2), PM PHF=0.50

* Saturday, December 08, 2012 - Total=3, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	1	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 1415 - 1515 (2), PM PHF=0.50

* Sunday, December 09, 2012 - Total=1, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 1600 - 1700 (1), PM PHF=0.25

* Monday, December 10, 2012 - Total=2, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	1	0	0	0	0	0	0	0

AM Peak 0000 - 0100 (0), AM PHF=1.00 PM Peak 1300 - 1400 (1), PM PHF=0.25

* Tuesday, December 11, 2012 - Total=4, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	
0	0	0	0	0	0	0	0	**1**	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	**0**	0	0	0	1	**0**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0

AM Peak 0715 - 0815 (1), AM PHF=0.25 PM Peak 1230 - 1330 (1), PM PHF=0.25

Traffic Data Service -- Campbell, CA
Vehicle Counts

VehicleCount-1088 -- English (ENU)

Datasets:
Site: **[6SB] SB DRIVEWAY #6**
Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:
Included classes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Speed range: 0 - 100 mph.
Direction: South (bound)
Name: Default Profile
Scheme: Vehicle classification (Scheme F)
Units: Non metric (ft, mi, ft/s, mph, lb, ton)

* Tuesday, December 04, 2012 - Total=34, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**0**	**2**	**4**	**0**	**1**	**4**	**3**	**4**	**5**	**2**	**2**	**0**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	1	**1**	0	1	2	2	0	**0**	0	0	0	1	3	0	0	0	0	0	0
0	0	0	0	1	0	0	**2**	0	0	1	0	1	**2**	1	1	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	0	1	1	**1**	0	0	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	**1**	1	0	0	0	0	**2**	3	1	0	0	1	0	0	0	0	0	0	0

AM Peak 0630 - 0730 (4), AM PHF=0.50 PM Peak 1230 - 1330 (5), PM PHF=0.63

* Wednesday, December 05, 2012 - Total=30, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**0**	**1**	**4**	**3**	**1**	**2**	**2**	**1**	**3**	**5**	**1**	**0**	**4**	**2**	**0**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	1	**3**	2	0	1	0	0	1	**0**	0	0	1	1	0	0	0	0	0	0
0	0	0	0	0	0	0	**1**	0	0	0	0	0	1	**3**	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	**0**	0	1	0	0	1	1	1	**2**	0	0	2	1	0	0	0	0	0	0
0	0	0	0	0	0	**0**	0	0	1	1	1	0	**0**	0	1	0	1	0	0	0	0	0	0	0

AM Peak 0630 - 0730 (4), AM PHF=0.33 PM Peak 1345 - 1445 (5), PM PHF=0.42

* Thursday, December 06, 2012 - Total=36, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**2**	**8**	**5**	**1**	**5**	**0**	**0**	**0**	**4**	**2**	**0**	**3**	**2**	**0**	**0**	
0	0	0	0	0	0	1	1	0	0	**4**	1	1	**2**	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	1	0	**1**	0	0	**0**	0	0	0	1	0	0	3	2	0	0	0
0	0	0	0	0	0	0	0	0	0	**1**	1	0	**0**	0	0	0	2	2	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	**2**	2	3	0	**3**	0	0	0	1	0	0	0	0	0	0	0

AM Peak 0945 - 1045 (8), AM PHF=0.50 PM Peak 1300 - 1400 (5), PM PHF=0.42

* Friday, December 07, 2012 - Total=38, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**5**	**1**	**5**	**2**	**4**	**5**	**2**	**0**	**5**	**4**	**1**	**0**	**0**	**1**	**0**	**0**	
0	0	0	0	0	0	1	1	**1**	1	2	0	0	**1**	0	0	3	1	1	0	0	0	0	0	0
0	0	0	0	0	1	0	0	**1**	0	0	1	**1**	0	0	0	1	1	0	0	0	1	0	0	0
0	0	0	0	0	0	0	0	**2**	0	1	1	**1**	2	1	0	1	2	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	**1**	0	2	0	**2**	2	1	0	0	0	0	0	0	0	0	0	0

AM Peak 0800 - 0900 (5), AM PHF=0.63 PM Peak 1215 - 1315 (5), PM PHF=0.63

* Saturday, December 08, 2012 - Total=35, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**1**	**3**	**2**	**1**	**3**	**3**	**1**	**2**	**2**	**3**	**1**	**1**	**3**	**5**	**0**	**1**	**0**	**2**	
0	0	0	0	0	1	0	1	0	1	1	**1**	0	0	1	2	0	1	0	**2**	0	0	0	1	0
0	0	0	0	0	0	0	1	1	0	0	**1**	0	1	1	1	0	0	0	**3**	0	0	0	1	0
0	0	0	0	0	0	1	0	1	0	**1**	0	1	1	0	0	0	0	0	**2**	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	**1**	1	0	0	0	0	1	0	**1**	0	0	1	0	0	0

AM Peak 1030 - 1130 (4), AM PHF=1.00 PM Peak 1830 - 1930 (8), PM PHF=0.67

* Sunday, December 09, 2012 - Total=19, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**0**	**1**	**1**	**2**	**1**	**2**	**0**	**2**	**2**	**0**	**0**	**0**	**3**	**2**	**0**	**3**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	2	1	0	0	0	**0**	0	0	0	0	**1**	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	1	0	0	**1**	0	0	0	**2**	1	0	2	0	0	0	0	1
0	0	0	0	0	1	0	0	0	1	0	0	**1**	0	0	0	**0**	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0	0	0	**2**	0	0	0	0	**1**	0	0	0	0	0	0	0	0

AM Peak 1145 - 1245 (4), AM PHF=0.50 PM Peak 1615 - 1715 (4), PM PHF=0.50

* Monday, December 10, 2012 - Total=36, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
1	**0**	**0**	**0**	**1**	**1**	**0**	**3**	**2**	**5**	**4**	**3**	**5**	**2**	**1**	**1**	**0**	**3**	**3**	**1**	**0**	**0**	**0**	**0**	
0	0	0	0	0	0	0	0	0	0	**2**	1	**2**	1	1	1	0	0	1	1	0	0	0	0	0
1	0	0	0	1	0	0	2	0	0	**2**	1	**1**	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	**0**	0	0	**1**	0	0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	2	**5**	0	1	**1**	1	0	0	0	2	2	0	0	0	0	0	0

AM Peak 0930 - 1030 (9), AM PHF=0.45 PM Peak 1200 - 1300 (5), PM PHF=0.63

* Tuesday, December 11, 2012 - Total=35, 15 minute drops

0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	
0	**0**	**0**	**0**	**1**	**1**	**0**	**4**	**1**	**2**	**8**	**3**	**1**	**2**	**3**	**3**	**1**	**4**	**0**	**0**	**0**	**0**	**1**	**0**	
0	0	0	0	0	0	0	2	0	0	**4**	2	1	1	1	**2**	0	1	0	0	0	0	0	0	0
0	0	0	0	1	0	0	1	0	0	**0**	0	0	1	**0**	0	1	2	0	0	0	0	1	0	0
0	0	0	0	0	0	0	1	1	0	**3**	1	0	0	**2**	1	0	1	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	**2**	1	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0

AM Peak 0945 - 1045 (9), AM PHF=0.56 PM Peak 1415 - 1515 (4), PM PHF=0.50

TJKM
Transportation Consultants

Vision That Moves Your Community

MEMORANDUM

Date: June 18, 2013

To: Trang TuNguyen, PE
Jessy Pu, PE

Project No.: 021094 T008

From: Vishnu Gandluru
Transportation Engineer

Jurisdiction: Town of Los Gatos

Subject: Peer Review of Trip Generation Study for Existing and Proposed Land Uses for "Sisters of the Holy Names of Jesus and Mary" property site in the Town of Los Gatos, CA

The purpose of this memo is to present TJKM's peer review of trip generation study conducted by *Hexagon Transportation Consultants* for the subject property site. The original trip generation study (dated December 14, 2012) conducted for the existing and the proposed land uses for the project site located at 100 Prospect Avenue was updated with a revised study (dated April 30, 2013) that includes peak arrival and departure period traffic counts from a nearby Los Gatos High School.

The project site consists of approximately 85,000 square feet of space in six buildings ranging from one to three stories in height. The current project site operates as an educational convent, housing, care, retreat and religious facility. Based on the information provided on the trip generation study, the project location accommodates up to 140 residents, with 66 Sisters currently on site. It is noted that the current project site operates at approximately 47% of the maximum capacity.

A review of the trip generation estimates contained in the trip generation study report was performed to verify that they are accurate, appropriate land use types were chosen from Institute of Transportation Engineers (ITE) Trip Generation Manual and that the trip generation numbers are calculated accordingly.

The trip count provided in the study indicates that currently the project site generates an average of 29 a.m. peak hour trips and 19 p.m. peak hour trips during a typical weekday. Based on the ITE trip generation manual recommendations, the proposed project of 17-unit single family detached housing is expected to generate a total of 162 daily trips, 13 a.m. peak hour trips and 17 p.m. peak hour trips.

Conclusion:

TJKM agrees with *Hexagon Transportation Consultants* conclusion that the proposed project will generate less (negative) net daily trips and weekday a.m. and p.m. peak hour trips. TJKM also notes that no adjustments were made to trip generation estimates even as the current facility operates at approximately half its capacity, which is a conservative approach. Thus, the proposed project is expected to have no impacts.

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APPENDIX G

ENVIRONMENTAL NOISE ASSESSMENT

SISTERS OF THE HOLY NAMES OF JESUS AND MARY RESIDENTIAL SUBDIVISION PROJET FINAL ENVIRONMENTAL NOISE ASSESSMENT LOS GATOS, CALIFORNIA

July 9, 2013

♦ ♦ ♦

Prepared for:

Sisters of the Holy Names of Jesus and Mary
P.O. Box 398
Marylhurst, OR 97036

Prepared by:

Michael S. Thill

ILLINGWORTH & RODKIN, INC.
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Job No.: 12-160

INTRODUCTION

This report evaluates the potential for significant noise or vibration impacts that may result from the proposed Project at 100 Prospect Avenue, in the Town of Los Gatos, California. The project as proposed consists of a Tentative Map Application including 17 single –family residential lots of about half an acre each. Future development would include demolition of all the existing structures and related driveways and some landscape features on the 10.3 acre site and the replacement of the existing convent and other facilities with 17 single-family homes.

The Setting section of this report presents the fundamentals of environmental noise and vibration, provides a discussion of policies and standards applicable to the project, and presents the results of the ambient noise monitoring survey. The Impacts and Mitigation Measures section of the report summarizes future noise levels resulting from the project and provides an evaluation of the potential significance of project-related noise and vibration impacts.

SETTING

Fundamentals of Environmental Noise

Noise may be defined as unwanted sound. Noise is usually objectionable because it is disturbing or annoying. The objectionable nature of sound could be caused by its *pitch* or its loudness. *Pitch* is the height or depth of a tone or sound, depending on the relative rapidity (frequency) of the vibrations by which it is produced. Higher pitched signals sound louder to humans than sounds with a lower pitch. *Loudness* is intensity of sound waves combined with the reception characteristics of the ear. Intensity may be compared with the height of an ocean wave in that it is a measure of the amplitude of the sound wave.

In addition to the concepts of pitch and loudness, there are several noise measurement scales which are used to describe noise in a particular location. A decibel (dB) is a unit of measurement which indicates the relative amplitude of a sound. The zero on the decibel scale is based on the lowest sound level that the healthy, unimpaired human ear can detect. Sound levels in decibels are calculated on a logarithmic basis. An increase of 10 decibels represents a ten-fold increase in acoustic energy, while 20 decibels is 100 times more intense, 30 decibels is 1,000 times more intense, etc. There is a relationship between the subjective noisiness or loudness of a sound and its intensity. Each 10 decibel increase in sound level is perceived as approximately a doubling of loudness over a fairly wide range of intensities. Technical terms are defined in Table 1.

There are several methods of characterizing sound. The most common in California is the A-weighted sound level or dBA. This scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. Representative outdoor and indoor noise levels in units of dBA are shown in Table 2. Because sound levels can vary markedly over a short period of time, a method for describing either the average character of the sound or the statistical behavior of the variations must be utilized. Most commonly, environmental sounds are described in terms of an average level that has the same acoustical energy as the summation of all the time-varying

events. This energy-equivalent sound/noise descriptor is called L_{eq}. The most common averaging period is hourly, but L_{eq} can describe any series of noise events of arbitrary duration.

The scientific instrument used to measure noise is the sound level meter. Sound level meters can accurately measure environmental noise levels to within about plus or minus 1 dBA. Various computer models are used to predict environmental noise levels from sources, such as roadways and airports. The accuracy of the predicted models depends upon the distance the receptor is from the noise source. Close to the noise source, the models are accurate to within about plus or minus 1 to 2 dBA.

Since the sensitivity to noise increases during the evening and at night -- because excessive noise interferes with the ability to sleep -- 24-hour descriptors have been developed that incorporate artificial noise penalties added to quiet-time noise events. The *Community Noise Equivalent Level, CNEL,* is a measure of the cumulative noise exposure in a community, with a 5 dB penalty added to evening (7:00 pm - 10:00 pm) and a 10 dB addition to nocturnal (10:00 pm - 7:00 am) noise levels. The *Day/Night Average Sound Level, L_{dn},* is essentially the same as CNEL, with the exception that the evening time period is dropped and all occurrences during this three-hour period are grouped into the daytime period.

Fundamentals of Groundborne Vibration

Ground vibration consists of rapidly fluctuating motions or waves with an average motion of zero. Several different methods are typically used to quantify vibration amplitude. One is the Peak Particle Velocity (PPV) and another is the Root Mean Square (RMS) velocity. The PPV is defined as the maximum instantaneous positive or negative peak of the vibration wave. The RMS velocity is defined as the average of the squared amplitude of the signal. The PPV and RMS vibration velocity amplitudes are used to evaluate human response to vibration. In this report, a PPV descriptor with units of mm/sec or in/sec is used to evaluate construction generated vibration for building damage and human complaints. Table 3 displays the reactions of people and the effects on buildings that continuous vibration levels produce. The annoyance levels shown in Table 3 should be interpreted with care since vibration may be found to be annoying at much lower levels than those shown, depending on the level of activity or the sensitivity of the individual. To sensitive individuals, vibrations approaching the threshold of perception can be annoying.

Low-level vibrations frequently cause irritating secondary vibration, such as a slight rattling of windows, doors or stacked dishes. The rattling sound can give rise to exaggerated vibration complaints, even though there is very little risk of actual structural damage. In high noise environments, which are more prevalent where groundborne vibration approaches perceptible levels, this rattling phenomenon may also be produced by loud airborne environmental noise causing induced vibration in exterior doors and windows.

Construction activities can cause vibration that varies in intensity depending on several factors. The use of pile driving and vibratory compaction equipment typically generates the highest construction related ground-borne vibration levels. Because of the impulsive nature of such activities, the use of the peak particle velocity descriptor (PPV) has been routinely used to

measure and assess ground-borne vibration and almost exclusively to assess the potential of vibration to induce structural damage and the degree of annoyance for humans.

The two primary concerns with construction-induced vibration, the potential to damage a structure and the potential to interfere with the enjoyment of life are evaluated against different vibration limits. Studies have shown that the threshold of perception for average persons is in the range of 0.008 to 0.012 in/sec PPV. Human perception to vibration varies with the individual and is a function of physical setting and the type of vibration. Persons exposed to elevated ambient vibration levels, such as people in an urban environment, may tolerate a higher vibration level.

Structural damage can be classified as cosmetic only, such as minor cracking of building elements, or may threaten the integrity of the building. Safe vibration limits that can be applied to assess the potential for damaging a structure vary by researcher and there is no general consensus as to what amount of vibration may pose a threat for structural damage to the building. Construction-induced vibration that can be detrimental to the building is very rare and has only been observed in instances where the structure is at a high state of disrepair and the construction activity occurs immediately adjacent to the structure.

TABLE 1 Definition of Acoustical Terms Used in this Report

Term	Definition
Decibel, dB	A unit describing, the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure. The reference pressure for air is 20.
Sound Pressure Level	Sound pressure is the sound force per unit area, usually expressed in micro Pascals (or 20 micro Newtons per square meter), where 1 Pascal is the pressure resulting from a force of 1 Newton exerted over an area of 1 square meter. The sound pressure level is expressed in decibels as 20 times the logarithm to the base 10 of the ratio between the pressures exerted by the sound to a reference sound pressure (e.g., 20 micro Pascals). Sound pressure level is the quantity that is directly measured by a sound level meter.
Frequency, Hz	The number of complete pressure fluctuations per second above and below atmospheric pressure. Normal human hearing is between 20 Hz and 20,000 Hz. Infrasonic sound are below 20 Hz and Ultrasonic sounds are above 20,000 Hz.
A-Weighted Sound Level, dBA	The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Equivalent Noise Level, L_{eq}	The average A-weighted noise level during the measurement period.
L_{max}, L_{min}	The maximum and minimum A-weighted noise level during the measurement period.
L_{01}, L_{10}, L_{50}, L_{90}	The A-weighted noise levels that are exceeded 1%, 10%, 50%, and 90% of the time during the measurement period.
Day/Night Noise Level, L_{dn} or DNL	The average A-weighted noise level during a 24-hour day, obtained after addition of 10 decibels to levels measured in the night between 10:00 pm and 7:00 am.
Community Noise Equivalent Level, CNEL	The average A-weighted noise level during a 24-hour day, obtained after addition of 5 decibels in the evening from 7:00 pm to 10:00 pm and after addition of 10 decibels to sound levels measured in the night between 10:00 pm and 7:00 am.
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
Intrusive	That noise which intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, and time of occurrence and tonal or informational content as well as the prevailing ambient noise level.

Source: Handbook of Acoustical Measurements and Noise Control, Harris, 1998.

TABLE 2 Typical Noise Levels in the Environment

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	110 dBA	Rock band
Jet fly-over at 1,000 feet		
	100 dBA	
Gas lawn mower at 3 feet		
	90 dBA	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	80 dBA	Garbage disposal at 3 feet
Noisy urban area, daytime		
Gas lawn mower, 100 feet	70 dBA	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	60 dBA	
		Large business office
Quiet urban daytime	50 dBA	Dishwasher in next room
Quiet urban nighttime	40 dBA	Theater, large conference room
Quiet suburban nighttime		
	30 dBA	Library
Quiet rural nighttime		Bedroom at night, concert hall
	20 dBA	
		Broadcast/recording studio
	10 dBA	
	0 dBA	

Source: Technical Noise Supplement (TeNS), Caltrans, November 2009.

TABLE 3 Reaction of People and Damage to Buildings From Continuous or Frequent Intermittent Vibration Levels

Velocity Level, PPV (in/sec)	Human Reaction	Effect on Buildings
0.01	Barely perceptible	No effect
0.04	Distinctly perceptible	Vibration unlikely to cause damage of any type to any structure
0.08	Distinctly perceptible to strongly perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
0.1	Strongly perceptible	Virtually no risk of damage to normal buildings
0.3	Strongly perceptible to severe	Threshold at which there is a risk of damage to older residential dwellings such as plastered walls or ceilings
0.5	Severe - Vibrations considered unpleasant	Threshold at which there is a risk of damage to newer residential structures

Source: Transportation- and Construction-Induced Vibration Guidance Manual, California Department of Transportation, June 2004.

Regulatory Criteria

The State of California and the Town of Los Gatos establish regulatory criteria that are applicable in this assessment. The State's CEQA guidelines are used to assess the potential significance of environmental impacts pursuant to local policies set forth in the Town of Los Gatos General Plan and Municipal Code. A summary of the applicable criteria is provided below.

State CEQA Guidelines. The California Environmental Quality Act (CEQA) contains guidelines to evaluate the significance of environmental noise impacts attributable to a proposed project. Applicable CEQA checklist questions ask whether the project would result in:

- Exposure of persons to or generation of noise levels in excess of standards established in the local General Plan or Noise Ordinance, or applicable standards of other agencies?

- Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?

- A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

- A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

- For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

- For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

CEQA does not define what noise level increase would be considered substantial.

Los Gatos Noise Element. The Noise Element of the Town of Los Gatos 2020 General Plan establishes goals and policies related to the control of community noise. Goals NOI-1, NOI-2, NOI-5, and NOI-6 are applicable to the proposed project

Goal NOI-1 To ensure that noise from new development and new land uses does not adversely affect neighboring land uses.

> Policy NOI-1.1 The Town, as part of the Environmental Review process, shall require applicants to submit an acoustical analysis of projects. All input related to noise levels shall use the adopted standard of measurement shown in Table NOI-2. Noise impacts of new development shall be evaluated in terms of any increase of the existing ambient noise levels and the potential for adverse noise and groundborne vibrations impacts on nearby or adjacent properties. The evaluation shall consider short-term construction noise and on-going operational noise.
>
> Policy NOI-1.2 The Town shall maintain the noise ordinance standards.
>
> Policy NOI-1.3 Employ the Ldn scale for the evaluation of outdoor noise for residential land uses and the Leq scale for evaluation of outdoor noise for non-residential uses, as shown in Table NOI-2. Pursue the outdoor noise limits shown in Table NOI-2 as representing the long range community aspirations and work toward their accomplishment, even though some may be presently unattainable.
>
> Policy NOI-1.4 Apply the same indoor noise levels standards for single family residential uses and multi-family dwellings.

Goal NOI-2 To ensure that proposed development is not adversely affected by existing noise levels.

> Policy NOI-2.1 Evaluate the potential for existing ambient and/or intrusive noise to adversely affect new development.
>
> Policy NOI-2.2 Require all noise-sensitive developments adjacent to or within an area where noise levels exceed community aspirations to include a noise study and recommendation for reducing noise impact to an acceptable level.

Goal NOI-5 To ensure that residential land uses are not adversely affected by noise.

Policy NOI-5.1 Protect residential areas from noise by requiring appropriate site and building design, sound walls, and landscaping and by the use of noise attenuating construction techniques and materials.

Goal NOI-6 To ensure that sensitive receptors are not exposed to unacceptable noise levels.

Policy NOI-6.1 The Town shall not approve land use patterns and traffic patterns that expose sensitive land uses or sensitive noise receptors to unacceptable noise levels.

Policy NOI-6.2 Review transportation improvement plans to ensure that noise-sensitive areas are not exposed to unacceptable noise levels.

Los Gatos has established outdoor noise limits, which represent long-range community goals for different land use designations within the town. These outdoor noise limits are shown in Table NOI-2 of the Noise Element.

The goal for maximum outdoor noise levels in residential areas is an L_{dn} of 55 dBA. Policy NOI-1.3 directs the Town to "Pursue the outdoor noise limits shown in Table NOI-2 as representing the long range community aspirations and work toward their accomplishment, even though some may be presently unattainable." Policy NOI-1.4 indicates that 45 dBA L_{dn} is the acceptable indoor noise level standard for single family residential uses.

Based in part on the Town's outdoor noise limits, the Town considers a substantial permanent noise increase in portions of the town that are considered to be quiet (i.e. dead-end streets and neighborhoods away from freeways and major streets) as:

(a) causing the L_{dn} in existing residential areas to increase by 5 dB or more and remain below 55 dB L_{dn};
(b) causing the L_{dn} in existing residential areas to increase by 3 dB or more and, thereby, exceed 55 dB L_{dn};
(c) causing the L_{dn} in existing residential areas to increase by 1 dB or more if the current noise exposure exceeds 55 dB L_{dn}.

If the project causes any of the above three criteria to occur, the project will result in a significant noise impact to the areas where it occurs and mitigation measures will be required.

Los Gatos Town Code. Section 16.20.035 of the Town Code allows permitted construction activities to occur between the hours of 8:00 a.m. and 8:00 p.m., weekdays and 9:00 a.m. and 7:00 p.m. weekends and holidays if they meet at least one of the following noise limitations:

(1) No individual piece of equipment shall produce a noise level exceeding eighty-five (85) dBA at twenty-five (25) feet. If the device is located within a structure on the property, the measurement shall be made at distances as close to twenty-five (25) feet from the device as possible.
(2) The noise level at any point outside of the property plane shall not exceed eighty-five (85) dBA.

Existing Noise Environment

The project site is located at 100 Prospect Avenue, in the Town of Los Gatos, California, and is bordered by residential land uses. The predominant noise source affecting the project site is distant traffic along State Route 17, approximately 800 feet to the northwest. Construction activities at surrounding residences and intermittent local traffic are also sources of noise that affect the site and vicinity.

A noise monitoring survey was performed at the site in December 2012. The survey consisted of two long-term noise measurements (LT) and one short-term noise measurement (ST) as shown in Figure 1. Noise levels were monitored using Larson-Davis Laboratories Model 820 integrating sound level meters fitted with precision microphones and windscreens.

Long-term noise measurement LT-1 was approximately 800 feet from the center of SR-17 (approximate building pad area of Lot 16), and was selected to quantify the daily trend in noise levels attributable to distant traffic along the roadway. Hourly average noise levels typically ranged from 56 to 62 dBA L_{eq} during the day, and from 47 to 61 dBA L_{eq} at night. The L_{dn} at this location ranged from 62 to 63 dBA on weekdays and from 61 to 62 dBA over the weekend. The daily trend in noise levels at LT-1 is shown in Figures 2-7.

A second long-term noise measurement (LT-2) was made along Prospect Avenue adjacent to residential land uses bordering the project site (near proposed Lot 13). Figures 8 – 13 summarize the data collected at Site LT-2. Because ambient noise levels at this location were generally low, local residential construction activities had an effect on the measured noise levels. Noise levels on Sunday December 9, 2012 were less affected by construction activities. The estimated day-night average noise level at this location was 50 dBA L_{dn} on Sunday December 9, 2012.

Short-term noise measurement ST-1 completed the noise monitoring survey. This measurement was made between the Cortona Cottage and Seraphine Building (approximate building pad area of Lot 8) over a period of 20-minutes beginning at 11:30 a.m. on Thursday, December 6, 2012. The average noise level at this site was approximately 52 dBA L_{eq} and resulted primarily from distant traffic along SR-17.

NOISE IMPACTS AND MITIGATION MEASURES

Significance Criteria

Paraphrasing from Appendix G of the CEQA Guidelines, a project would normally result in significant noise impacts if noise levels generated by the project conflict with adopted environmental standards or plans, if the project would generate excessive ground-borne vibration levels, or if ambient noise levels at sensitive receivers would be substantially increased over a permanent, temporary, or periodic basis. The following criteria were used to evaluate the significance of environmental noise resulting from the project:

- A significant noise impact would be identified if the project would expose persons to or generate noise levels that would exceed applicable noise standards established in the General Plan or Municipal Code.

- A significant impact would be identified if the construction of the project would expose persons to excessive vibration levels. Groundborne vibration levels exceeding 0.3 in/sec PPV (peak particle velocity) would have the potential to result in "architectural" damage to normal buildings.

- A significant impact would be identified if traffic generated by the project would substantially increase noise levels at sensitive receivers in the vicinity. A substantial increase would occur if the project would:
    - cause the L_{dn} in existing residential areas to increase by 5 dB or more and remain below 55 dB L_{dn};
    - cause the L_{dn} in existing residential areas to increase by 3 dB or more and, thereby, exceed 55 dB L_{dn};
    - cause the L_{dn} in existing residential areas to increase by 1 dB or more if the current noise exposure exceeds 55 dB L_{dn}.

- A significant noise impact would be identified if construction related noise would exceed the Los Gatos Town Code permitted construction hours or noise limitations.

Impact 1: **Noise and Land Use Compatibility.** Four residential lots proposed at the project site could be exposed to exterior noise levels greater than the Town of Los Gatos noise and land use compatibility goals without noise attenuation measures incorporated into the future home design. Interior noise levels at these lots could exceed acceptable interior limits without the incorporation of noise insulation features into the future home design. **This is a significant impact.**

The goal for maximum outdoor noise levels in residential areas is an L_{dn} of 55 dBA. Policy NOI-1.3 directs the Town to "Pursue the outdoor noise limits shown in Table NOI-2 as representing the long range community aspirations and work toward their accomplishment, even though some may be presently unattainable." Policy NOI-1.4 indicates that 45 dBA L_{dn} is the acceptable indoor noise levels standard for single family residential uses.

The noise environment at the project site exceeds the Town's acceptable noise level goal for exterior noise for new residential uses. The goal for maximum outdoor noise levels in residential areas is an L_{dn} of 55 dBA. The existing noise environment at the northwest portion of the site results primarily from distant traffic noise along SR-17. The future 65 dBA L_{dn} noise contour for this sources lies along the northwest property boundary of the site.

To reduce noise levels to 55 dBA L_{dn} or less, noise attenuation, in the form of solid fencing, berming, or attenuation provided by the proposed residential structures themselves would be required at Lots 14-17 during future Architecture & Site application, review and approval.

The noise environment at the remainder of the site would remain below 55 dBA L_{dn} and would be considered acceptable for residential development.

Interior noise levels within new residential units are required by the Town of Los Gatos to be maintained at or below 45 dBA L_{dn}. Residential units at Lots 14-17 would be exposed to future noise levels greater than 60 dBA L_{dn}. Future noise levels at these unshielded facades are calculated to reach 65 dBA L_{dn}.

Interior noise levels would vary depending on the design of the buildings (relative window area to wall area) and construction materials and methods. Standard residential construction provides approximately 15 dBA of exterior to interior noise reduction assuming the windows are partially open for ventilation. Standard construction with the windows closed provides approximately 20 to 25 dBA of noise reduction in interior spaces. In exterior noise environments ranging from 60 dBA L_{dn} to 65 dBA L_{dn}, interior noise levels can typically be maintained below Town standards with the incorporation of an adequate forced air mechanical ventilation system in each residential unit allowing the windows to be closed.

Mitigation Measure 1:

The following mitigation measures shall be implemented for future home design in order to reduce the potential impact to a **less-than-significant level**:

- When designing individual home plans for Lots 14-17, comply with private outdoor open space requirements by locating noise-sensitive outdoor use areas away from SR-17 or attenuating noise-sensitive outdoor spaces with buildings, structures, solid fencing, berms or other attenuation measures.

  The implementation of any one or combination of these mitigation measures would reduce the potential impact to a **less-than-significant level**. The specific noise attenuation measure (s) shall be determined and implemented as part of home design during the Architecture & Site application, review and approval process, to the satisfaction of the Town that the measures (s) meet the Town goal.

- Provide a suitable form of forced-air mechanical ventilation, as determined by the local building official, for units located on Lots 14-17, so that windows could be kept closed at the occupant's discretion to control interior noise.

The implementation of this mitigation measure would reduce the potential impact to a **less-than-significant level**. The specific type of forced-air mechanical ventilation system shall be determined as part of home design during Architecture & Site application, review and approval process to the satisfaction of the Town that the measure meets the Town goal.

Impact 2: **Exposure to Excessive Groundborne Vibration.** Construction related vibration would not be excessive at nearby residential land uses. **This is a less-than-significant impact.**

Future construction of the site may generate perceptible vibration at existing or proposed residences within approximately 150 feet of the construction site when heavy equipment or impact tools (e.g. jackhammers, hoe rams) are used. Construction activities would include site preparation work, foundation work, and new building framing and finishing. The proposed project would not require pile driving, which can cause excessive vibration.

For structural damage, the California Department of Transportation uses a vibration limit of 0.5 inches/second, peak particle velocity (in/sec, PPV) for buildings structurally sound and designed to modern engineering standards, 0.3 in/sec, PPV for buildings that are found to be structurally sound but where structural damage is a major concern, and a conservative limit of 0.08 in/sec, PPV for ancient buildings or buildings that are documented to be structurally weakened.

Table 5 presents typical vibration levels that could be expected from construction equipment at a distance of 25 feet. Project construction activities such as drilling, the use of jackhammers, rock drills and other high-power or vibratory tools, and rolling stock equipment (tracked vehicles, compactors, etc.) may generate substantial vibration in the immediate vicinity. Construction activities may extend over several construction seasons, but construction vibration would not be substantial for most of this time except during vibration generating activities (as discussed above). Jackhammers typically generate vibration levels of 0.035 in/sec PPV and drilling typically generates vibration levels of 0.09 in/sec PPV at a distance of 25 feet. Vibration levels would vary depending on soil conditions, construction methods, and equipment used. Construction activities that generate substantial vibration levels (e.g., the use of a vibratory roller) would not be expected in areas located within 25 feet of sensitive buildings, and vibration levels would be expected to be 0.2 in/sec PPV or less, below the 0.3 in/sec PPV significance threshold. Vibration generated by construction activities occurring near the common property line would typically rely on smaller equipment (e.g., the use of a jackhammer) and would at times be perceptible. However, smaller equipment would generate lower vibration levels and would also not be expected to result in "architectural" damage nearby buildings as vibration levels would be less than the 0.3 in/sec PPV significance threshold. This is a less-than-significant impact.

In areas where vibration would not be expected to cause structural damage, vibration levels may still be perceptible. However, as with any type of construction, this would be anticipated and it would not be considered significant given the intermittent and short duration of the phases that have the highest potential of producing vibration (demolition and use of jackhammers and other high power tools).

TABLE 5 Vibration Source Levels for Construction Equipment

Equipment		PPV at 25 ft. (in/sec)	Approximate L_v at 25 ft. (VdB)
Pile Driver (Impact)	upper range	1.158	112
	Typical	0.644	104
Pile Driver (Sonic)	upper range	0.734	105
	Typical	0.170	93
Clam shovel drop		0.202	94
Hydromill (slurry wall)	in soil	0.008	66
	in rock	0.017	75
Vibratory Roller		0.210	94
Hoe Ram		0.089	87
Large bulldozer		0.089	87
Caisson drilling		0.089	87
Loaded trucks		0.076	86
Jackhammer		0.035	79
Small bulldozer		0.003	58

Source: Transit Noise and Vibration Impact Assessment, United States Department of Transportation, Office of Planning and Environment, Federal Transit Administration, May 2006.

Mitigation Measure 2: None required.

Impact 3: Project-Generated Traffic Noise. The proposed project would not result in a substantial permanent noise level increase at noise sensitive uses in the vicinity. **This is a less-than-significant impact.**

A substantial permanent noise increase would be identified where the project would:

- cause the L_{dn} in existing residential areas to increase by 5 dB or more and remain below 55 dB L_{dn};
- cause the L_{dn} in existing residential areas to increase by 3 dB or more and, thereby, exceed 55 dB L_{dn};
- cause the L_{dn} in existing residential areas to increase by 1 dB or more if the current noise exposure exceeds 55 dB L_{dn}.

Trip generation data contained in the project's Trip Generation Analysis[1] was reviewed to calculate the relative increase in traffic noise attributable to the proposed project. According to this study, the project is expected to generate a total of 162 daily trips, 13 AM peak-hour trips (3 inbound trips and 10 outbound trips), and 17 PM peak-hour trips (11 inbound trips and 6 outbound trips). The project would generate less daily trips and less AM and PM peak hour trips than the existing uses and would result in a 0 dB change in existing ambient noise levels. The project would not substantially increase traffic noise levels at noise sensitive receptors in the vicinity, and the impact would be **less-than-significant**.

Mitigation Measure 3: None required.

1 Hexagon Transportation Consultants, Inc. *Trip Generation Study for the Existing and Proposed Land Uses at the Sisters of the Holy Names of Jesus and Mary Property in Los Gatos, California.* December 14, 2012.

Impact 4: **Temporary Demolition and Construction Noise.** Future demolition and construction activities at the project site would generate noise, and would temporarily increase noise levels at adjacent noise-sensitive land uses. The impact from temporary construction noise would be considered **significant**.

Future development of the site will require the demolition of several buildings and miscellaneous site improvements. The Marian Building, Siena Building, Cortona Building, Seraphine Building, Stone House, Regional Office and miscellaneous sheds and support buildings would be demolished. Demolition will utilize heavy equipment including dump trucks, water trucks, a track mounted mobile crushing plant, backhoes, track loaders, excavators, and skid steer loaders. Debris will be off hauled by truck. Some concrete debris will be crushed on site and used as base rock for new roads, driveways and building pads. Demolition activities would occur over an approximate two-month period.

The construction schedule for the 17 single-family homes is not known at this time. Construction activities proposed for similar projects typically include construction site grading and site improvements, construction of the building shells, interior finishing, and landscaping. Construction equipment such as water trucks, scrapers, compactors, bulldozers, excavators, backhoes, loaders, augers, concrete trucks, skid steer loaders, and assorted other hand tools and professional grade equipment will likely be used.

The highest maximum instantaneous noise levels generated by project construction activities would typically range from about 90 to 95 dBA L_{max} at a distance of 50 feet from the noise source. Typical hourly average construction generated noise levels are about 81 dBA to 88 dBA L_{eq} measured at a distance of 50 feet from the center of the construction site during busy construction periods (e.g., earth moving equipment, impact tools, etc.). Construction generated noise levels drop off at a rate of about 6 dBA per doubling of distance between the source and receptor. Shielding by buildings or terrain often result in lower construction noise levels at distant receptors.

Construction noise impacts primarily occur when construction activities occur during noise-sensitive times of the day (early morning, evening, or nighttime hours), the construction occurs in areas immediately adjoining noise sensitive land uses, or when construction durations last over extended periods of time.

Per Section 16.20.035 of the Town Code, the following standard controls are assumed to be included in the project:

- Construction activities shall be limited to the hours between 8:00 a.m. and 8:00 p.m., weekdays and 9:00 a.m. and 7:00 p.m. weekends and holidays consistent with the Town Code.
- Construction activities shall meet at least one of the following noise limitations:
    - No individual piece of equipment shall produce a noise level exceeding eighty-five (85) dBA at twenty-five (25) feet. If the device is located within a structure

on the property, the measurement shall be made at distances as close to twenty-five (25) feet from the device as possible.
- The noise level at any point outside of the property plane shall not exceed eighty-five (85) dBA.

Construction noise levels from some activities, however, may exceed 85 dBA at a distance of 25 feet from an individual piece of construction equipment, or the 85 dBA noise limit at the property plane. This is a significant temporary noise impact.

Mitigation Measure 4:

Implement additional construction noise controls such as the following during construction of the project to meet the Los Gatos Town Code noise limits.

- Equip all internal combustion engine driven equipment with intake and exhaust mufflers that are in good condition and appropriate for the equipment.

- Locate stationary noise generating equipment (e.g. rock crushers, compressors) as far as possible from adjacent residential receptors.
- Acoustically shield stationary equipment located near residential receptors with temporary noise barriers or recycled demolition materials.

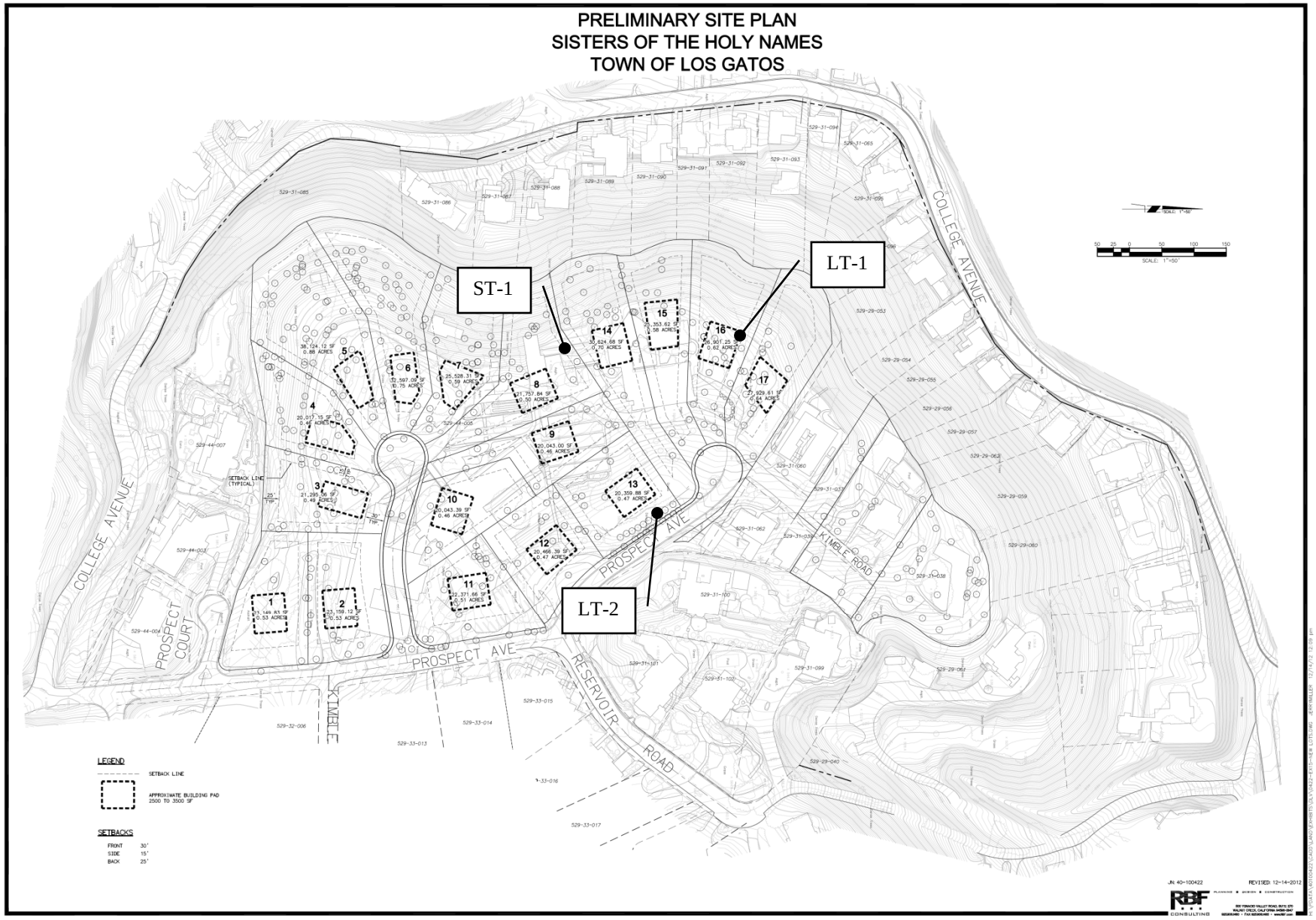
- Utilize "quiet" air compressors and other stationary noise sources where technology exists.

- The contractor shall prepare a detailed construction plan identifying the schedule for major noise-generating construction activities. The construction plan shall identify a procedure for coordination with adjacent residential land uses so that construction activities can be scheduled to minimize noise disturbance.

- Designate a "disturbance coordinator" who would be responsible for responding to any complaints about construction noise. The disturbance coordinator will determine the cause of the noise complaint (e.g., bad muffler, etc.) and will require that reasonable measures be implemented to correct the problem.

Implementation of the above measures would reduce construction noise levels emanating from the site, limit construction hours, and minimize disruption and annoyance. Construction-related noise levels would be temporary, would vary throughout the day, and would vary over the entire construction schedule depending on the type of equipment in use at any one time and the distance to adjacent receptors. The majority of residential units will be constructed 200 to 500 feet from sensitive land uses in the project vicinity. Demolition would occur over an approximate two-month period. The construction schedule for the 17 residential is unknown; however, it should be noted that construction of the residential units would affect sensitive land uses in the immediate vicinity only until the building shell is complete. Because construction noise impacts would be temporary and would be conducted in a manner that conforms to the applicable Town ordinances, the temporary noise impact would be less-than-significant.

Figure 1 Noise Monitoring Locations



Noise Levels at Noise Measurement Site LT-1
Northwest Portion of Site, ~800 feet from the Center of SR-17
Thursday, December 6, 2012

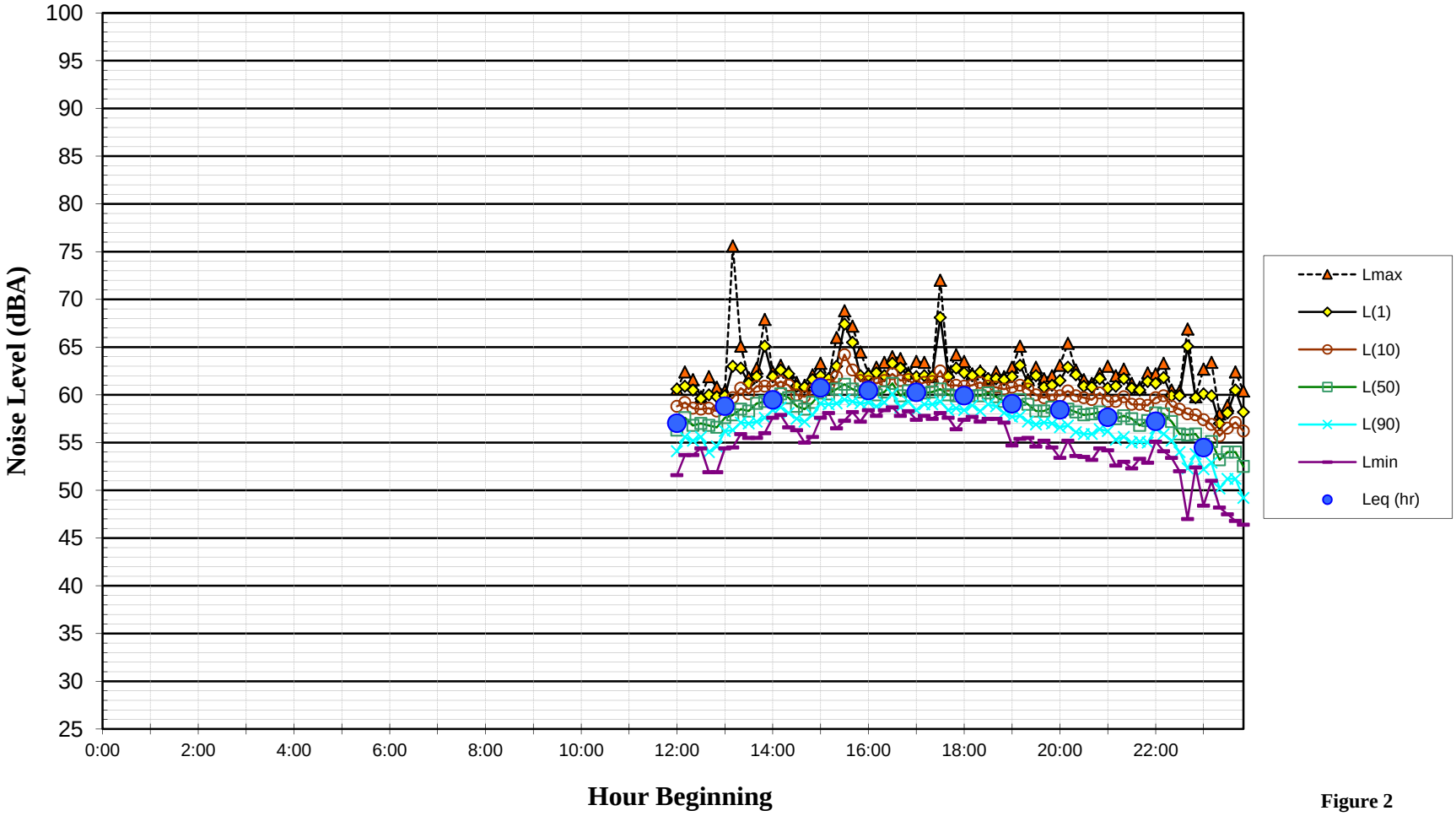
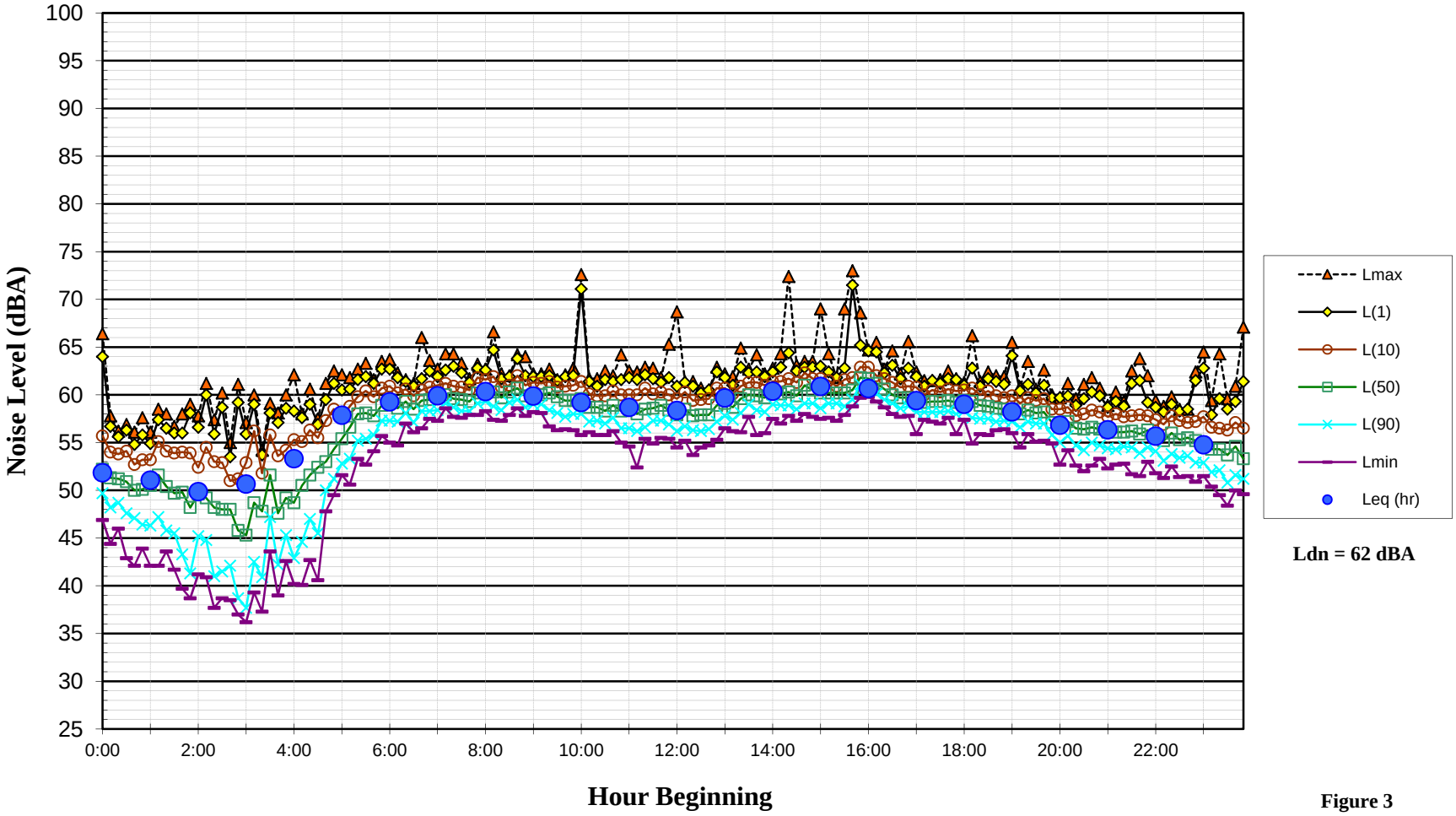


Figure 2

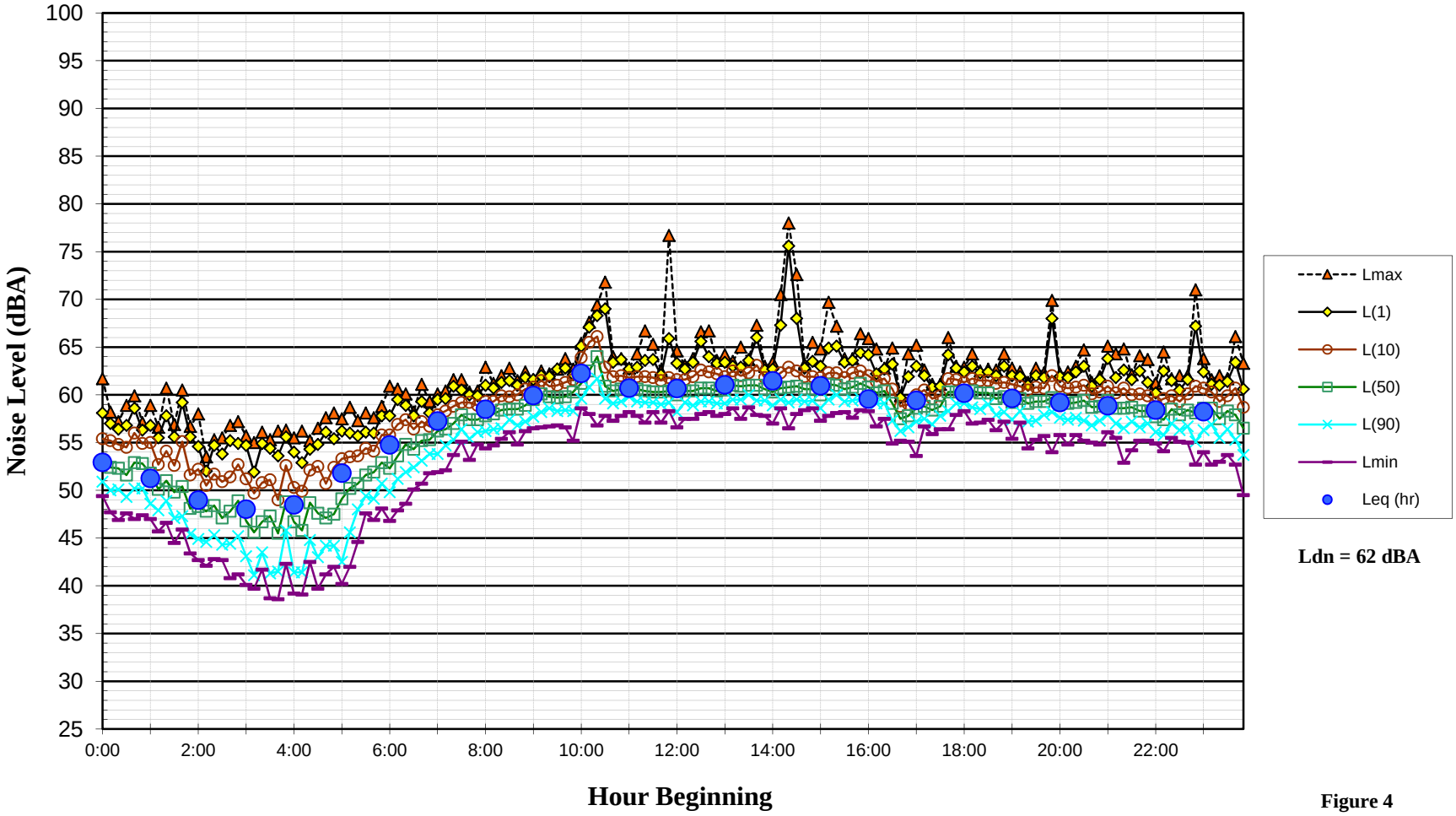
Noise Levels at Noise Measurement Site LT-1
Northwest Portion of Site, ~800 feet from the Center of SR-17
Friday, December 7, 2012



Ldn = 62 dBA

Figure 3

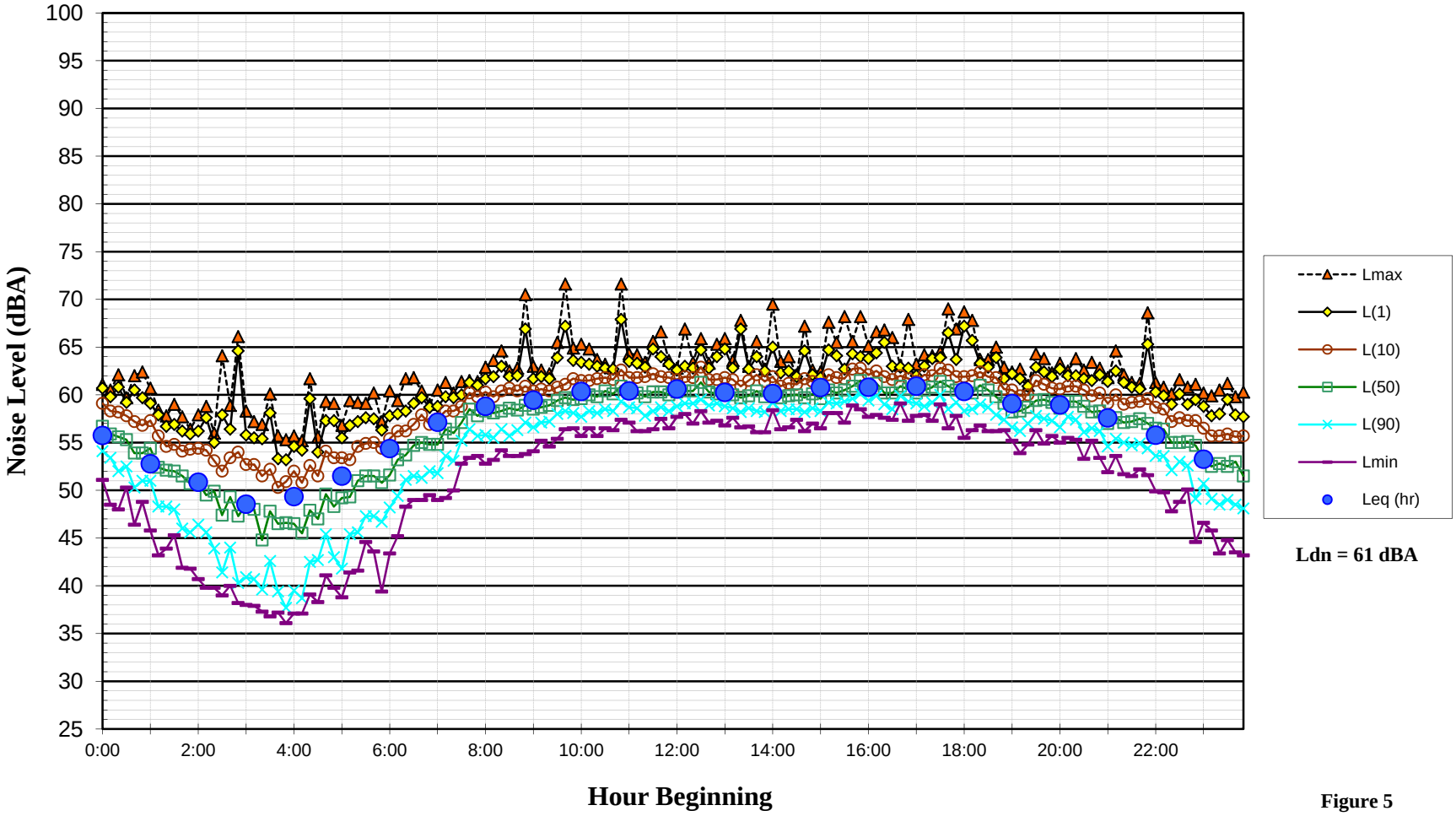
Noise Levels at Noise Measurement Site LT-1
Northwest Portion of Site, ~800 feet from the Center of SR-17
Saturday, December 8, 2012



Ldn = 62 dBA

Figure 4

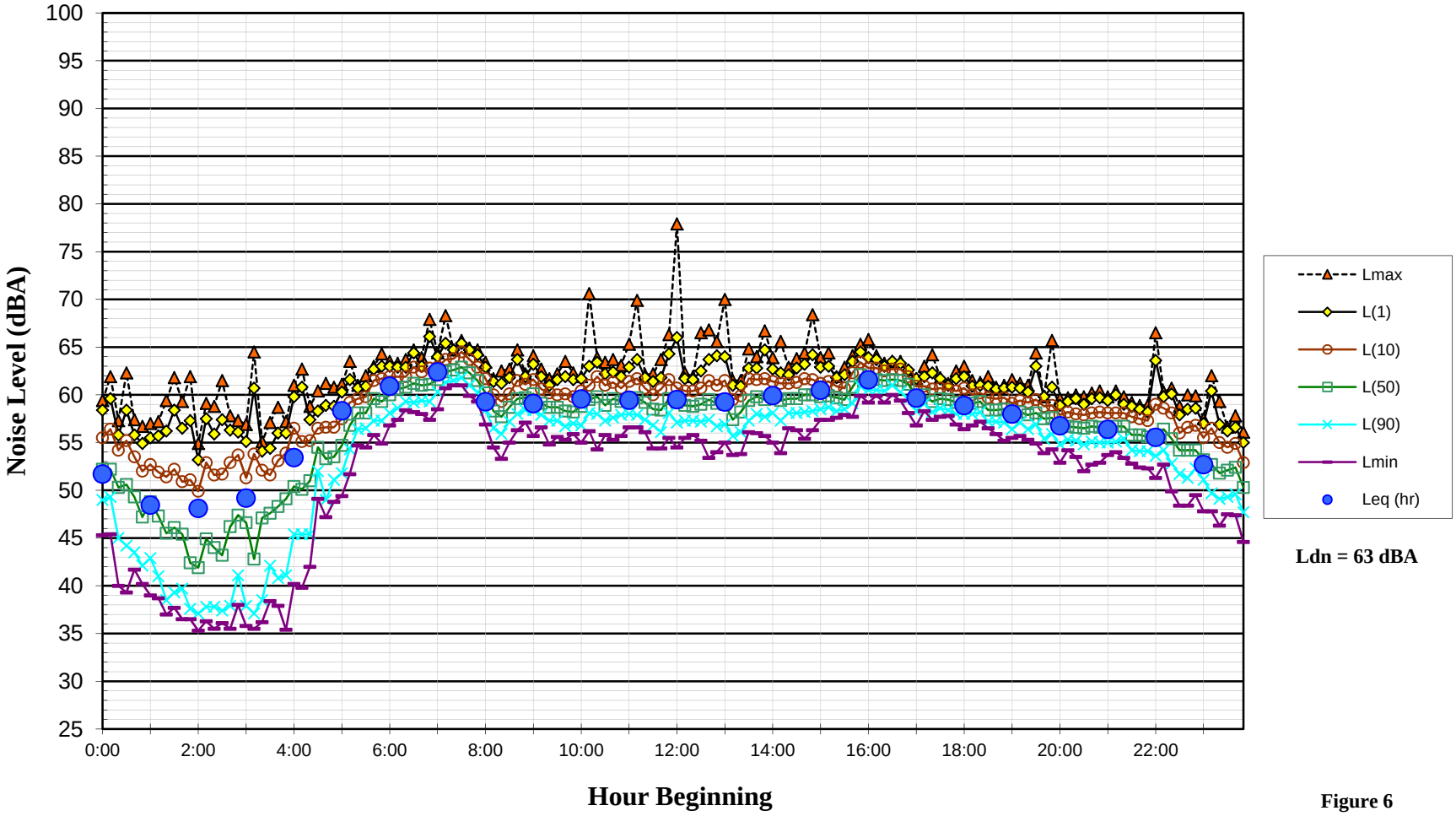
Noise Levels at Noise Measurement Site LT-1
Northwest Portion of Site, ~800 feet from the Center of SR-17
Sunday, December 9, 2012



Ldn = 61 dBA

Figure 5

Noise Levels at Noise Measurement Site LT-1
Northwest Portion of Site, ~800 feet from the Center of SR-17
Monday, December 10, 2012



Ldn = 63 dBA

Figure 6

Noise Levels at Noise Measurement Site LT-1
Northwest Portion of Site, ~800 feet from the Center of SR-17
Tuesday, December 11, 2012

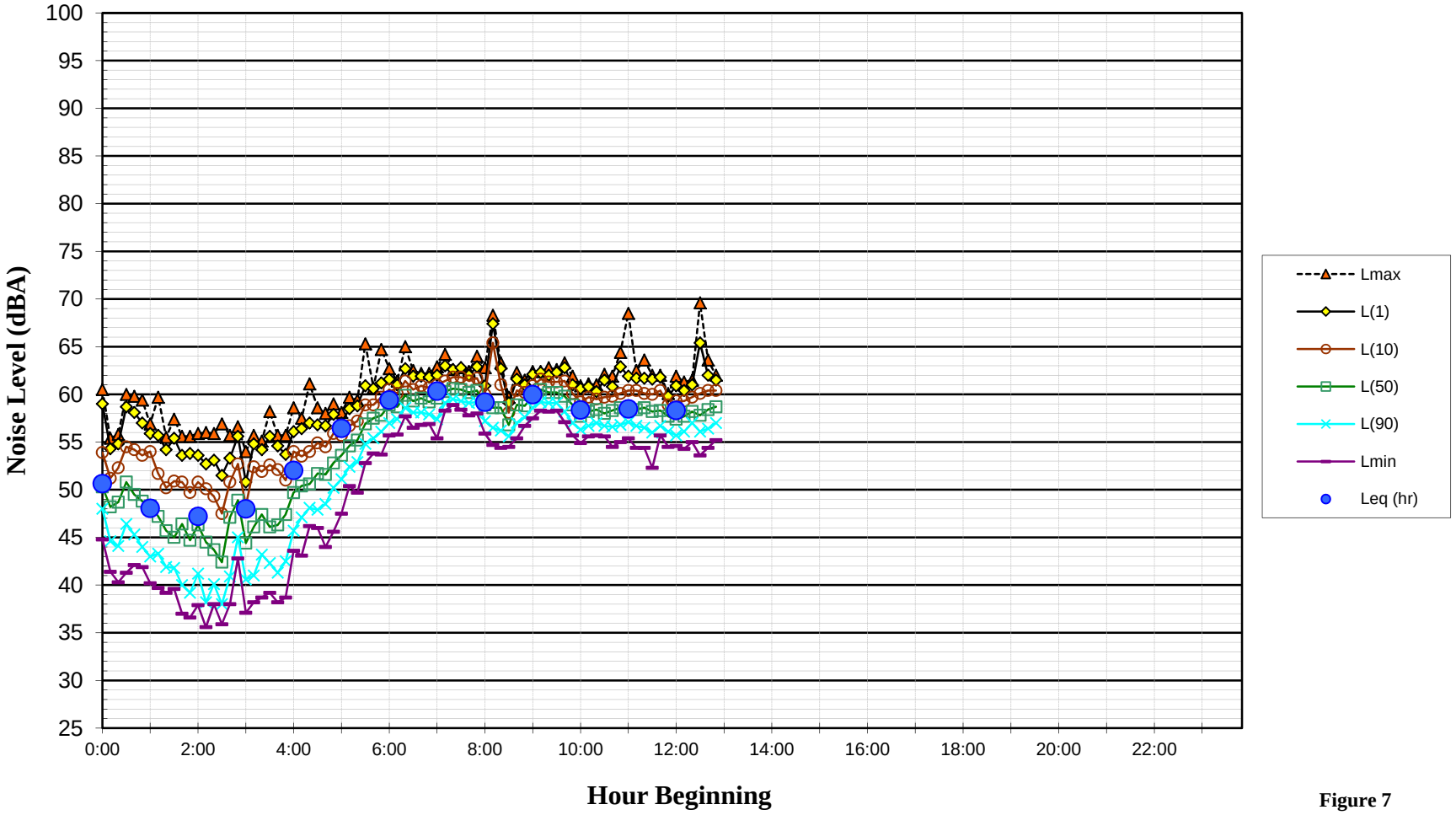


Figure 7

Noise Levels at Noise Measurement Site LT-2
Adjacent to Prospect Avenue
Thursday, December 6, 2012

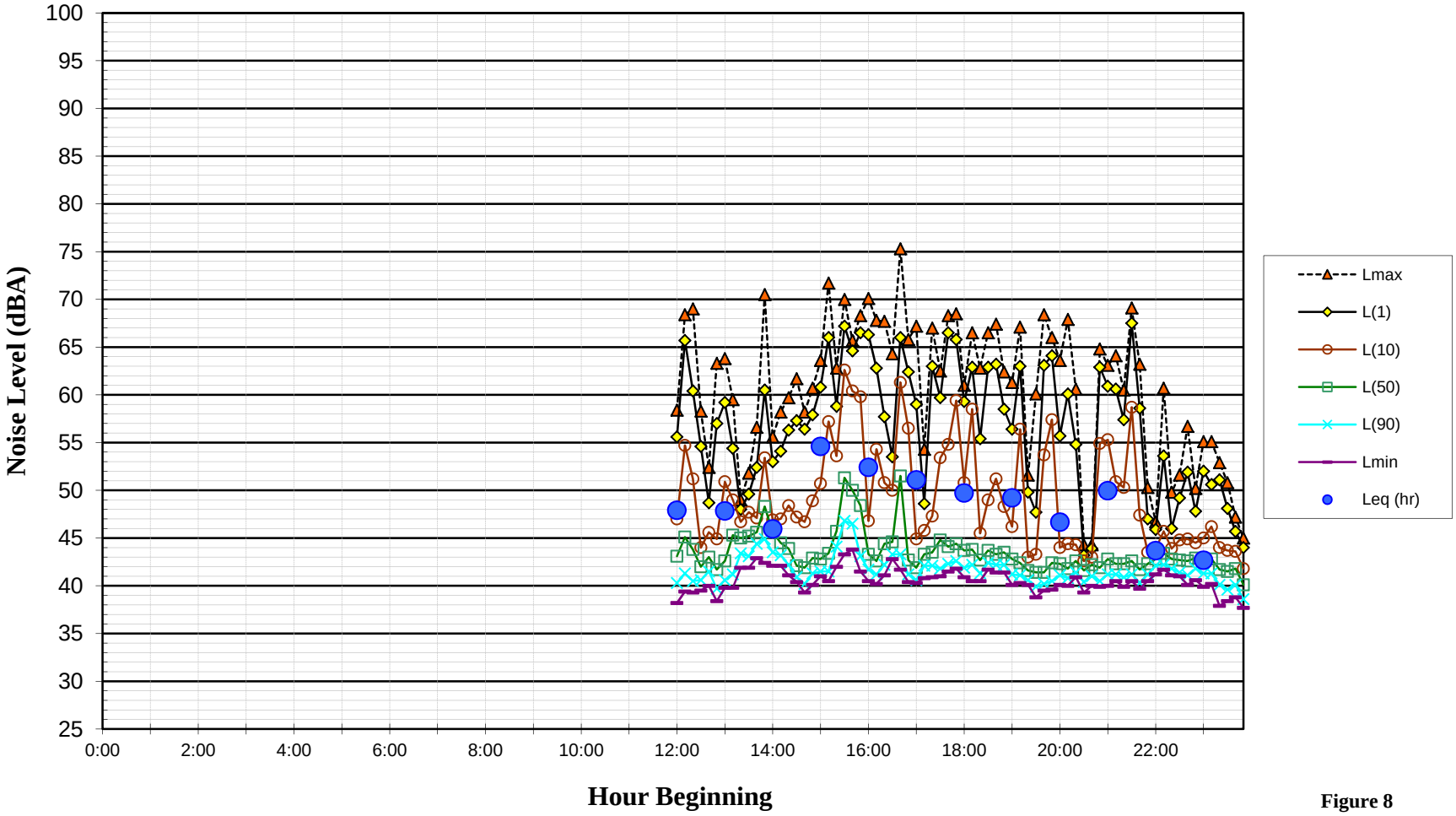
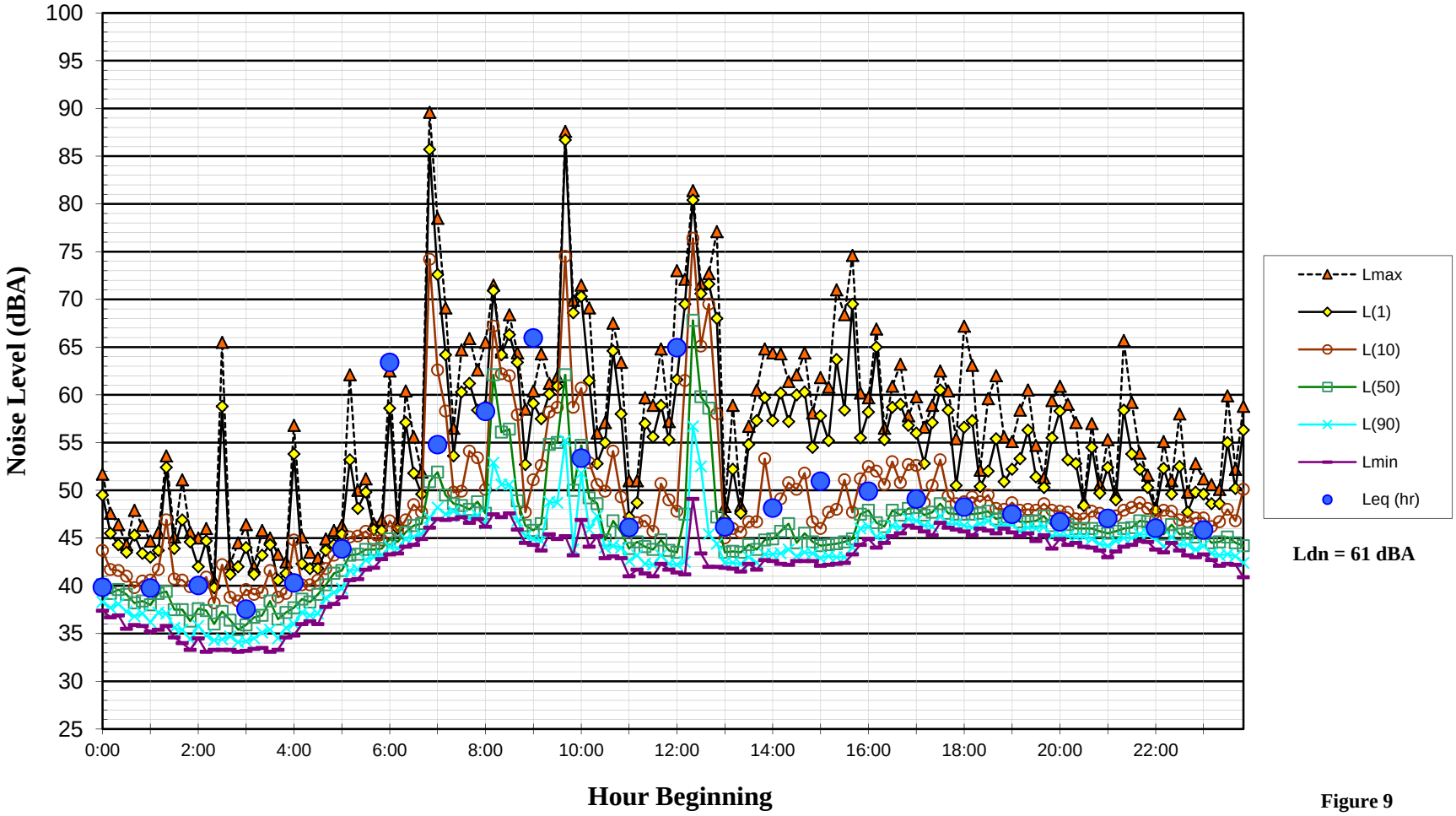


Figure 8

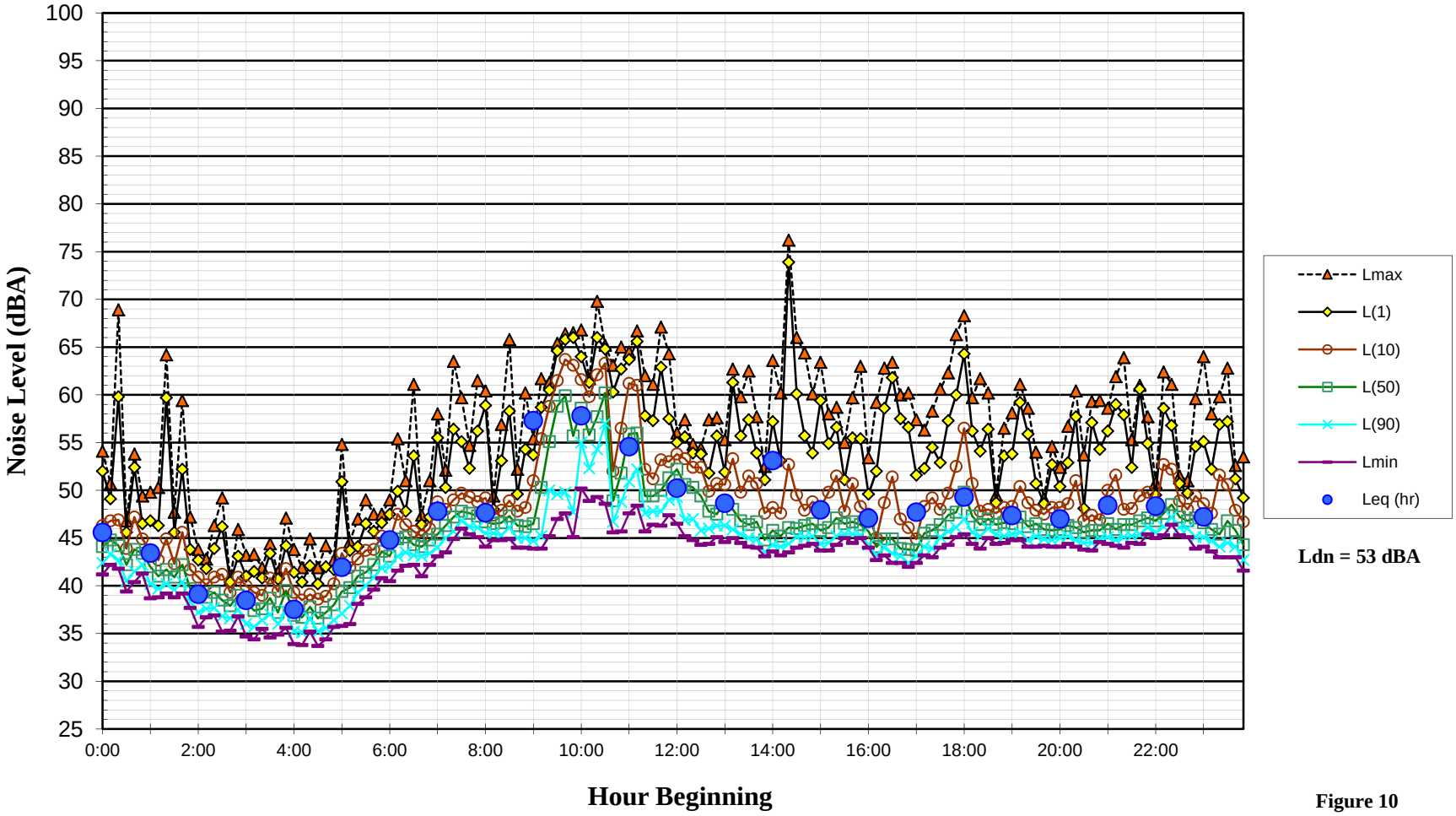
Noise Levels at Noise Measurement Site LT-2
Adjacent to Prospect Avenue
Friday, December 7, 2012



Ldn = 61 dBA

Figure 9

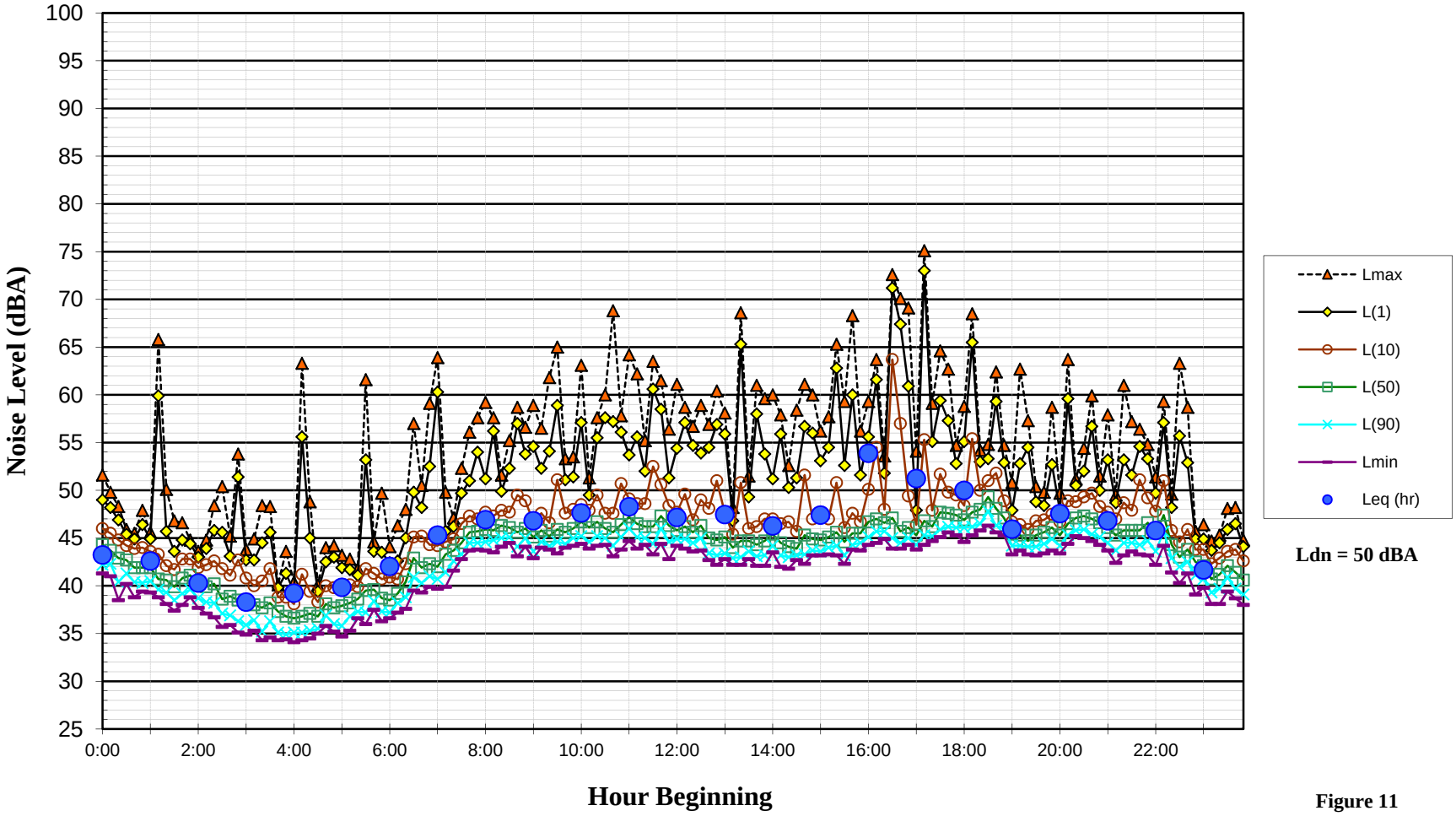
Noise Levels at Noise Measurement Site LT-2
Adjacent to Prospect Avenue
Saturday, December 8, 2012



Ldn = 53 dBA

Figure 10

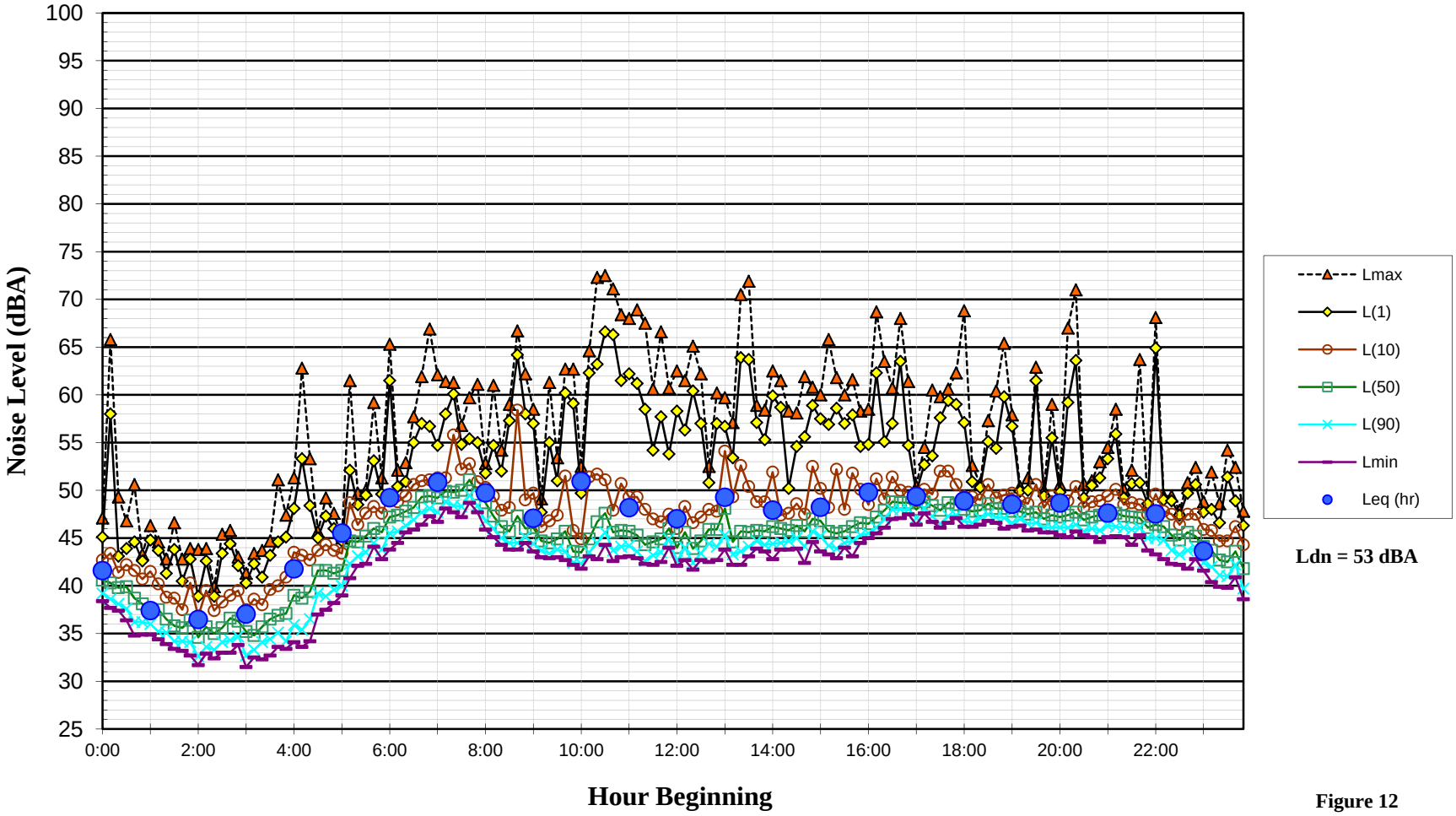
Noise Levels at Noise Measurement Site LT-2
Adjacent to Prospect Avenue
Sunday, December 9, 2012



Ldn = 50 dBA

Figure 11

Noise Levels at Noise Measurement Site LT-2
Adjacent to Prospect Avenue
Monday, December 10, 2012



Ldn = 53 dBA

Figure 12

Noise Levels at Noise Measurement Site LT-2
Adjacent to Prospect Avenue
Tuesday, December 11, 2012

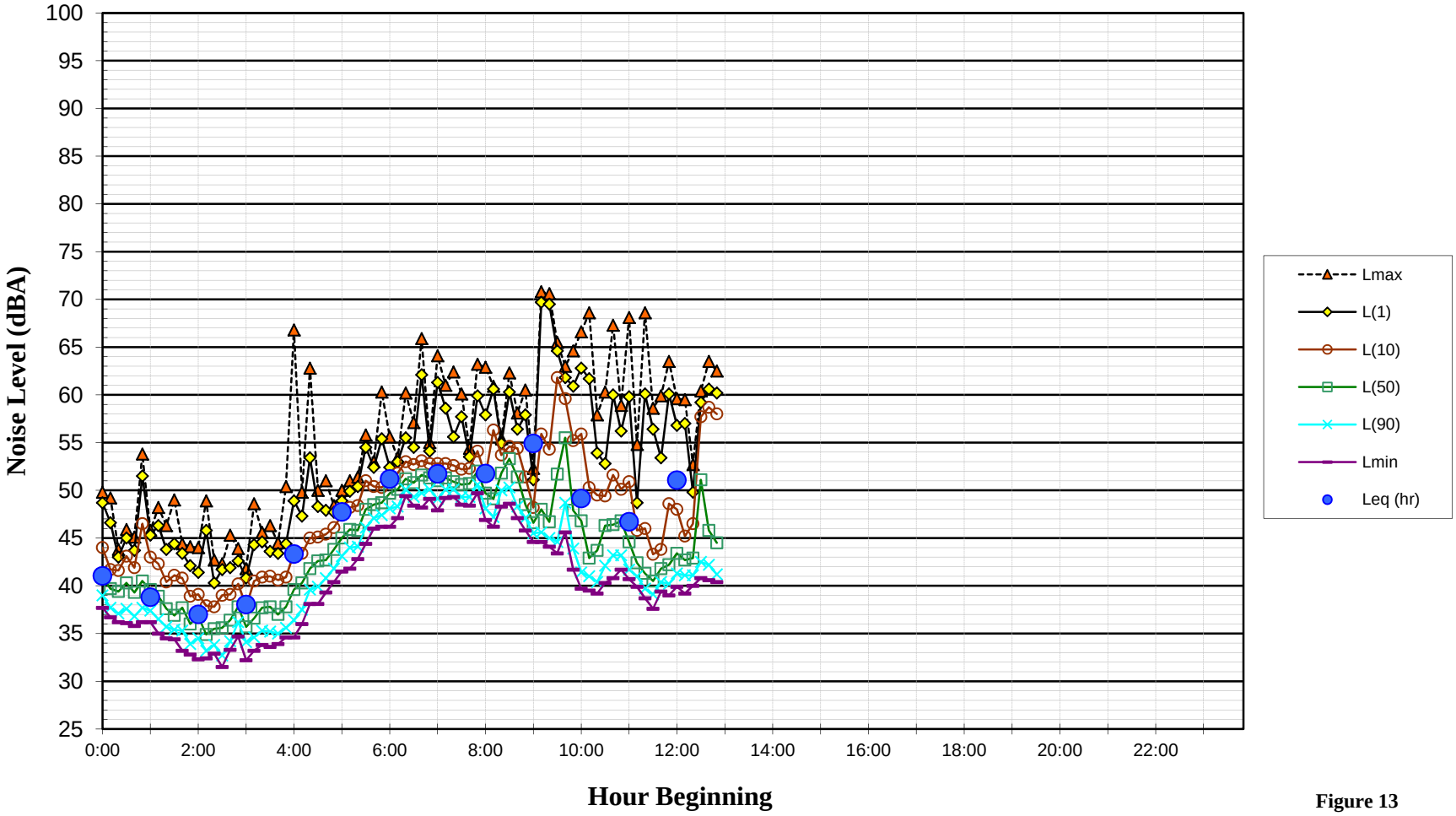


Figure 13

APPENDIX H

AIR QUALITY AND GREENHOUSE GAS ASSESSMENT

SISTERS OF THE HOLY NAMES OF JESUS AND MARY RESIDENTIAL SUBDIVISION PROJECT AIR QUALITY AND GREENHOUSE GAS EMISSIONS ASSESSMENT LOS GATOS, CALIFORNIA

April 2, 2013

Prepared for:

Sisters of the Holy Names of Jesus and Mary
U.O. Ontario Province Administration
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Project 12-160

Introduction

The purpose of this report is to address air quality and greenhouse gas emissions associated with the proposed residential project at 100 Prospect Avenue, in the Town of Los Gatos, California.
The project as proposed consists of a Tentative Map Application for subdivision of the property and ultimately the replacement of the existing convent and other facilities with 17 single-family homes.

The proposal to return the parcel to single-family residential use is consistent with the existing General Plan and Zoning designations for the property.

This report addresses air quality and climate change environmental checklist questions for compliance with CEQA, assuming the ultimate development of the project site as described above. This analysis was conducted using guidance provided by the Town of Los Gatos based on scientific information developed by the Bay Area Air Quality Management District (BAAQMD).

Setting

The project is located in the western portion of Santa Clara County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM_{10}) and fine particulate matter ($PM_{2.5}$).

High ozone levels are caused by the cumulative emissions of reactive organic gases (ROG) and nitrogen oxides (NOx). These precursor pollutants react under certain meteorological conditions to form high ozone levels. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempt to reduce ozone levels. The highest ozone levels in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone levels aggravate respiratory and cardiovascular diseases, reduce lung function, and increase coughing and chest discomfort.

Particulate matter is another problematic air pollutant of the Bay Area. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM_{10}) and fine particulate matter where particles have a diameter of 2.5 micrometers or less ($PM_{2.5}$). Elevated concentrations of PM_{10} and $PM_{2.5}$ are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter levels aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

Toxic air contaminants (TAC) are a broad class of compounds known to cause morbidity or mortality (usually because they cause cancer) and include, but are not limited to, the criteria air pollutants listed above. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter near a freeway). Because chronic exposure can result in adverse health effects, TACs are regulated at the regional, State, and federal level.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the California Air Resources Board (CARB), diesel exhaust is a complex mixture of gases, vapors and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals

in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the state's Proposition 65 or under the Federal Hazardous Air Pollutants programs.

CARB has adopted and implemented a number of regulations for stationary and mobile sources to reduce emissions of DPM. Several of these regulatory programs affect medium and heavy duty diesel trucks that represent the bulk of DPM emissions from California highways. These regulations include the solid waste collection vehicle (SWCV) rule, in-use public and utility fleets, and the heavy-duty diesel truck and bus regulations. In 2008, CARB approved a new regulation to reduce emissions of DPM and nitrogen oxides from existing on-road heavy-duty diesel fueled vehicles.[1] The regulation requires affected vehicles to meet specific performance requirements between 2011 and 2023, with all affected diesel vehicles required to have 2010 model-year engines or equivalent by 2023. These requirements are phased in over the compliance period and depend on the model year of the vehicle.

The Bay Area Air Quality Management District (BAAQMD) is the regional agency tasked with managing air quality in the region. CARB (a part of the California Environmental Protection Agency) oversees regional air district activities and regulates air quality at the State level. The BAAQMD has published CEQA Air Quality Guidelines based on scientific information that is used in this assessment to evaluate air quality impacts of projects.[2]

Thresholds of Significance

Criteria Pollutants

The Bay Area Air Quality Management District's (BAAQMD) adoption of its 2011 thresholds[3] was invalidated by an order issued March 5, 2012, in *California Building Industry Association v. BAAQMD* (Alameda Superior Court Case No. RGI0548693). The order requires BAAQMD to set aside its approval of the thresholds until it has conducted environmental review under CEQA. The claims made in the case concerned the environmental impacts of adopting the thresholds, that is, how the thresholds would indirectly affect land use development patterns. Those issues are not relevant to the scientific basis of BAAQMD's analysis of what levels of pollutants should be deemed significant. This analysis considers the science informing the thresholds as being supported by substantial evidence. Scientific information supporting the thresholds was documented in BAAQMD's proposed thresholds of significance analysis.[4] Accordingly, this report uses the thresholds and methodologies from BAAQMD's May 2011 CEQA Air Quality Guidelines to determine whether there would be any project construction impacts in terms of criteria pollutants. The significance thresholds identified by BAAQMD and used in this analysis are summarized in Table 1.

[1] Website: http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm. Accessed: March 26, 2013.
[2] Bay Area Air Quality Management District (BAAQMD), 2011. *BAAQMD CEQA Air Quality Guidelines*. May.
[3] BAAQMD, 2011. *ibid*. Updated: May 2012 after the 2011 version was vacated by a 2012 court ruling.
[4] BAAQMD, 2009. *California Environmental Quality Act Guidelines Update Proposed Thresholds of Significance*. December.

Community Risk Thresholds of Significance

The Bay Area Air Quality Management District (BAAQMD) identified significance thresholds for exposure to TACs and $PM_{2.5}$ as part of its May 2011 CEQA Air Quality Guidelines that were recently vacated by the court action described above. This analysis considers the science informing the thresholds as being supported by substantial evidence. The Guidelines include thresholds to evaluate single-source and cumulative source impacts of TACs and $PM_{2.5}$ on existing sensitive receptors and proposed sensitive receptors. The single-source impact thresholds are based on BAAQMD Risk Management Policy and are currently used by BAAQMD to evaluate impacts from new air pollution sources. The cumulative community risk thresholds that were identified by BAAQMD are the only thresholds of this kind. Therefore, these thresholds are used to evaluate impacts from this project.

Table 1 Air Quality Significance Thresholds

Criteria Pollutant	Construction Thresholds Average Daily Emissions (lbs./day)
ROG	54
NO_x	54
PM_{10} exhaust	82
$PM_{2.5}$ exhuast	54
CO	Not Applicable
Fugitive Dust	Best Management Practices

Note: ROG = reactive organic gases, NO_X = nitrogen oxides, PM_{10} = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (μm) or less, $PM_{2.5}$ = fine particulate matter or particulates with an aerodynamic diameter of 2.5μm or less, and CO = carbon monoxide.

The following are the significance criteria that are used to evaluate this project's impacts:

Single-Source Impacts

If emissions of TACs or $PM_{2.5}$ exceed any of the thresholds of significance listed below, the proposed project would result in a significant impact and mitigation would be required.

- An excess cancer risk level of more than 10 in 1 million, or a non-cancer (chronic or acute) hazard index greater than 1.0.
- An incremental increase of more than 0.3 micrograms per cubic meter ($\mu g/m^3$) annual average $PM_{2.5}$.

Cumulative Source Impacts

A project would have a cumulatively considerable impact if the aggregate total of all past, present, and foreseeable future sources within a 1,000 foot radius of the fence line of a source or from the location of a receptor, plus the contribution from the project, exceeds the following thresholds.

- An excess cancer risk levels of more than 100 in one million or a chronic non-cancer hazard index (from all local sources) greater than 10.0.

- 0.8 μg/m^3 annual average $PM_{2.5}$.

Impact Evaluation

Question 1: Does the Project conflict with or obstruct implementation of the applicable air quality plan?

The most recent clean air plan is the *Bay Area 2010 Clean Air Plan* that was adopted by BAAQMD in September 2010. This plan addresses air quality impacts with respect to obtaining ambient air quality standards for non-attainment pollutants (i.e., ozone and particulate matter or PM_{10} and $PM_{2.5}$), reducing exposure of sensitive receptors to toxic air contaminants (TACs), and reducing greenhouse gas emissions such that the region can meet AB 32 goals of reducing emissions to 1990 levels by 2020.

Emissions of non-attainment air pollutants are addressed under *Questions 2 and 3*. Exposure of sensitive receptors (existing receptors) during construction and the proposed new sensitive receptors (residences) to substantial pollutant concentrations is addressed under *Question 4*. *Question 6* addresses GHG emissions that could be caused by development of the project site.

Clean Air Plan Projections

The consistency of the proposed project with this regional plan is primarily a question of the consistency with the population/employment assumptions utilized in developing the 2010 Clean Air Plan, which were based on ABAG Projections. The proposed project would return the parcel to single-family residential use, which is consistent with the existing General Plan and Zoning designations for the property, and would not substantially affect population in the region. Therefore, the project would be considered consistent with the Clean Air Plan.

Consistency with Clean Air Plan Control Measures

The 2010 CAP includes about 55 control measures that are intended to reduce air pollutant emissions in the Bay Area either directly or indirectly. The control measures are divided in to five categories that include:

- 18 measures to reduce stationary and area sources;
- 10 mobile source measures;
- 17 transportation control measures;
- 6 Land use and local impact measures; and
- 4 Energy and climate measures

In developing the control strategy, BAAQMD identified the full range of tools and resources available, both regulatory and non-regulatory, to develop each measure. Implementation of each control measure will rely on some combination of the following:

- Adoption and enforcement of rules to reduce emissions from stationary sources, area sources, and indirect sources;
- Revisions to the BAAQMD's permitting requirements for stationary sources;
- Enforcement of CARB rules to reduce emissions from heavy‐duty diesel engines;
- Allocation of grants and other funding by the Air District and/or partner agencies;

- Promotion of best policies and practices that can be implemented by local agencies through guidance documents, model ordinances, etc.;
- Partnerships with local governments, other public agencies, the business community, non‐profits, etc.;
- Public outreach and education;
- Enhanced air quality monitoring;
- Development of land use guidance and CEQA guidelines, and Air District review and comment on Bay Area projects pursuant to CEQA; and
- Leadership and advocacy.

This approach relies upon lead agencies to assist in implementing some of the control measures. A key tool for local agency implementation is the development of land use policies and implementing measures that address new development or redevelopment in local communities. The consistency of the proposed project is evaluated with respect to each set of control measures.

Stationary and Area Source Control Measures

The CAP includes Stationary Source Control measures that BAAQMD adopts as rules or regulations through their authority to control emissions from stationary and area sources. The BAAQMD is the implementing agency, since these control measures are applicable to sources of air pollution that must obtain District permits. Any new stationary sources would be required to obtain proper permits through BAAQMD. In addition, the City uses BAAQMD's CEQA Air Quality Guidelines to evaluate air pollutant emissions from new sources. The project does not propose any new stationary sources of pollutant emissions (e.g., emergency back-up generators).

Mobile Source Measures

The CAP includes Mobile Source Measures that would reduce emissions by accelerating the replacement of older, dirtier vehicles and equipment through programs such as the BAAQMD's Vehicle Buy-Back and Smoking Vehicle Programs, and promoting advanced technology vehicles that reduce emissions. The implementation of these measures rely heavily upon incentive programs, such as the Carl Moyer Program and the Transportation Fund for Clean Air, to achieve voluntary emission reductions in advance of, or in addition to, CARB requirements. CARB has new regulations that require the replacement or retrofit of on-road trucks, construction equipment and other specific equipment that is diesel powered.

Transportation Control Measures

The CAP includes transportation control measures (TCMs) that are strategies meant to reduce vehicle trips, vehicle use, vehicle miles traveled, vehicle idling, or traffic congestion for the purpose of reducing motor vehicle emissions. While most of the TCMs are implemented at the regional level (e.g., by MTC or Caltrans), there are measures that the CAP relies upon local communities to assist with implementation. In addition, the CAP includes land use measures and energy and climate measures where implementation is aided by proper land use planning decisions. The City's latest General Plan update includes measures to reduce vehicle travel that are consistent with the CAP TCMs. In addition, the General Plan committed the City to developing and adopting a Climate Action Plan that would require additional TCMs consistent with CAP measures intended to reduce automobile use and to facilitate non-auto linkages through a network. The project is too small to incorporate a Transportation Demand Management (TDM) plan, and development of one would not be required.

TAC Exposure

For purposes of this analysis the Town has decided to use the BAAQMD CEQA Air Quality Guidelines to identify community risk impacts and develop appropriate mitigation measures, as necessary. The CAP includes measures to reduce TAC exposure to sensitive receptors. The project would site new sensitive receptors (residences) in close proximity to State Route 17 (SR 17) and would produce emissions of TACs associated with construction. The effects of TACs are addressed under *Question 4*.

Sustainability Plan
Currently, the Town committed to numerous actions in reducing GHG emissions to address climate change through development of a Sustainability Plan.[5] These actions and policies support many of the CAP measures aimed at reducing air pollutant and GHG emissions associated with land use planning. Project consistency with the Sustainability Plan is addressed under *Question 6*.

Question 2: Does the Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or State ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

The Bay Area is considered a non-attainment area for ground-level ozone and fine particulate matter ($PM_{2.5}$) under both the federal Clean Air Act and the California Clean Air Act. The area is also considered non-attainment for respirable particulates or particulate matter with a diameter of less than 10 micrometers (PM_{10}) under the California Clean Air Act, but not the federal act. The area has attained both State and federal ambient air quality standards for carbon monoxide. As part of an effort to attain and maintain ambient air quality standards for ozone and PM_{10}, the BAAQMD has established thresholds of significance for air pollutants. These thresholds are for ozone precursor pollutants (ROG and NOx), PM_{10} and $PM_{2.5}$ and apply to both construction period and operational period impacts. The California Emissions Estimator Model, Version 2011.1.1 (CalEEMod) was used to predict construction emissions. . In their latest update to the CEQA Air Quality Guidelines, BAAQMD identifies screening criteria for the sizes of land use projects that could result in significant air pollutant emissions. For operational impacts, the screening project size is identified at 325 dwelling units. Single-family housing projects of a smaller size would be expected to have less-than-significant impacts with respect to operational period emissions.

Construction Fugitive Dust

During grading and construction activities, dust would be generated. Most of the dust would result during grading activities. The amount of dust generated would be highly variable and is dependent on the size of the area disturbed at any given time, amount of activity, soil conditions and meteorological conditions. Nearby receptors could be adversely affected by dust generated during construction activities. The BAAQMD CEQA Air Quality Guidelines consider these impacts to be less than significant if Best Management Practices (BMPs) are employed to reduce these emissions. This impact is considered significant unless appropriate measures are implemented to reduce fugitive dust generated by the project. Therefore, *Air Quality Measure 1* is recommended. *Implementation of Air Quality Measure 1 would reduce this impact to a level of less-than-significant.*

[5] Town of Los Gatos, 2012. *Los Gatos Sustainability Plan*. October.

Construction Exhaust Emissions

Construction of the project is anticipated to begin in January of 2014 and last for approximately 19 months, ending in July of 2015. Demolition of on-site structures is anticipated to result in approximately 258 haul truck trips (or 516 one-way trips) and was based on the 2013 Buccanneer Demolition, Inc. report. Also, approximately 2,000 cubic yards (CY) of soil is anticipated to be exported during grading and was included in modeling. CalEEMod input and output worksheets are included in *Attachment 1*.

The model default values were used for computing exhaust emissions rates with the exception that load factors for equipment usage were reduced by 33 percent to be consistent with CARB's OFFROAD2010 modeling methodologies. In addition, ROG emissions from architectural coatings were adjusted from 250 grams per liter of VOC[6] to 150 grams per liter to account for BAAQMD's Regulation 8, Rule 3 that applies to the volatile organic compound content of paints and solvents sold and used in the region.

Table 2 reports the average daily emissions. Average daily emissions were computed by dividing the total construction period emissions by the number of anticipated construction days. Much of the emissions were anticipated to occur over about 410 work days during the approximately 19-month construction period. As shown in Table 2, construction exhaust emission estimates would be below BAAQMD thresholds and, therefore, *this impact is considered less than significant*.

Table 2. Project Average Daily Construction Emissions

Description	ROG	NOx	PM_{10} Exhaust	$PM_{2.5}$ Exhaust
2014 Annual Emissions in tons	0.59	4.54	0.23	0.23
2015 Annual Emissions in tons	0.43	0.95	0.07	0.07
Average Daily Emissions (pounds per day)*	5.0	26.8	1.5	1.5
BAAQMD Thresholds (pounds per day)	*54*	*54*	*82*	*54*
Exceed Threshold?	No	No	No	No

*Assuming 410 construction workdays over the course of approximately 19 months

Air Quality Measure 1: Include basic measures to control dust and exhaust during construction.

During any construction period ground disturbance, implement measures to control dust and exhaust. Implementation of the measures recommended by BAAQMD and listed below would reduce the air quality impacts associated with grading and new construction to a less than significant. The contractor shall implement the following BMPs that are required of all projects:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day;

2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered;

[6] VOC = volatile organic gases

3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited;

4. All vehicle speeds on unpaved roads shall be limited to 15 mph;

5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used;

6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes. Clear signage shall be provided for construction workers at all access points;

7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation; and

8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

Operational Emissions

In their latest update to the CEQA Air Quality Guidelines, BAAQMD identifies screening criteria for the sizes of land use projects that could result in significant air pollutant emissions. For operational impacts, the screening project size is identified at 325 dwelling units. Single-family housing projects of a smaller size would be expected to have less-than-significant impacts with respect to operational period emissions. Since the project proposes to construct and operate 17 dwelling units, it is concluded that emissions would be below the BAAQMD significance thresholds for the operational period. Stationary sources of air pollution (e.g., back-up generators) have not been identified with this project, and therefore, are not envisioned as part of the proposed project. *Due to the project size, operational period emissions would be less than significant.*

Question 3: Would the Project violate any air quality standard or contribute substantially to an existing or projected air quality violation?

As discussed under *Question 2*, the project would have emissions less than the significance thresholds adopted by BAAQMD for evaluating impacts to ozone and particulate matter. Therefore, the project would not contribute substantially to existing or projected violations of those standards. Carbon monoxide emissions from traffic generated by the project would be the pollutant of greatest concern at the local level. Congested intersections with a large volume of traffic have the greatest potential to cause high-localized concentrations of carbon monoxide. Air pollutant monitoring data indicate that carbon monoxide levels have been at healthy levels (i.e., below State and federal standards) in the Bay Area since the early 1990s. As a result, the region has been designated as attainment for the standard. There is an ambient air quality monitoring station in Cupertino at 22601 Voss Avenue that measures carbon monoxide concentrations. The highest measured level over any 8-hour averaging period during the last 3 years is less than 1.0 parts per million (ppm), compared to the ambient air quality standard of 9.0 ppm.

The project would generate traffic that could affect these levels. However, BAAQMD screening guidance indicates that projects would have a less than significant impact related to carbon monoxide levels if project traffic projections indicate traffic levels would not increase at any affected intersection to more than 44,000 vehicles per hour. Traffic intersections affected by the project would have hourly volumes of much less and *this impact would be less than significant*.

Question 4: Would the Project expose sensitive receptors to substantial pollutant concentrations?

Two impacts with respect to health risk were evaluated below: (1) impacts to existing sensitive receptors from project construction activities, and (2) impacts to new sensitive receptors that will live in close proximity of SR 17 and stationary sources of TACs.

Construction activity is anticipated to include demolition of existing structures and associated paved areas, grading and excavation, building construction, paving and application of architectural coatings.

Construction Fugitive Dust

As discussed under *Question 2*, dust would be generated during grading and construction activities. BMPs, identified by BAAQMD for reducing fugitive dust emissions, would have to be implemented by the project to avoid significant impacts. These measures have been identified in *Air Quality Measure 1*.

Construction Health Risk

This analysis addresses health risk impacts from construction of the proposed project. The closest existing residences to the project site are located adjacent to the project boundaries in all directions (see Figure 1 in *Attachment 2*). A health risk assessment of the project construction activities was conducted that evaluated potential health effects at these nearby sensitive receptors from construction emissions of DPM. A dispersion model was used to predict the off-site concentrations resulting from project construction so that lifetime cancer risks could be predicted. Figure 1 in *Attachment 2* shows the project site and sensitive receptor locations (residences) used in the air quality dispersion modeling analysis where potential health impacts were evaluated.

Construction period diesel exhaust emissions were computed using emission factors from the CARB OFFROAD model for off-road construction equipment and from the EMFAC2011 model for emissions from trucks (e.g., haul trucks and water trucks). The number and types of construction equipment and diesel vehicles, along with the anticipated length of their use, for the demolition phase of construction were based on a site-specific demolition activity schedule. This included the estimated number of days the equipment would operate for each phase and the average number of hours per day of operation. For other phases of construction (site preparation, grading, building construction, paving, and architectural coating) the California Emissions Estimator Model, Version 2011.1.1 (CalEEMod) model was used to develop the default types of construction equipment used. Off-road equipment horsepower estimates were based on the defaults used by CalEEMod, unless otherwise provided by the applicant. Emission rates for construction equipment representative of U.S. EPA Tier 2 engine emission standards were assumed (a model year 2006 construction equipment fleet). Construction of the project is anticipated to occur over about a year and a half period starting in 2014. If construction occurs over a longer period it is expected that potential impacts would be the same or slightly decreased.

Emissions from haul trucks and water trucks associated with construction activities were calculated using emission factors from CARB's EMFAC2011 mobile source emissions model. The number of trucks needed for project construction was based on the amount of material to be hauled away during demolition and from excavation and grading activities at the site. Based on the volume of material to be removed during demolition it was estimated that about 207 trucks loads will be required for demolition activities and about 125 truck loads for excavation activities. Emissions from on-road vehicles at the project site would also include a water truck used during excavation and grading activities. In calculating emissions from haul trucks and water trucks all trucks were assumed to be heavy heavy-duty trucks traveling on-site at 5 mph. Additionally, haul trucks were assumed to idle on-site for up to 5 minutes per trip. The projected construction schedule and DPM emission calculations are provided in *Attachment 2*.

The U.S. EPA ISCST3 dispersion model was used to predict concentrations of DPM at existing sensitive receptors in the vicinity of the project site. The ISCST3 modeling utilized four area sources to represent the on-site emissions from construction area. Two of the area sources were used to represent the areas where demolition activities would occur and the other two area sources represented the areas where emissions from the other construction-related activities would occur. An emission release height of 6 meters was used for all area sources. The elevated source height reflects the height of the equipment exhaust pipes and buoyancy of the exhaust plume. Emissions from truck travel at the project site were also included in the area source. Emissions were modeled as occurring daily between 7 a.m. to 4 p.m. The model used a 5-year data set (1991 - 1995) of hourly meteorological data from the San Jose Airport available from the BAAQMD. Annual DPM concentrations from construction activities were predicted for the construction period based on the 5 years of meteorological data. DPM concentrations were calculated at nearby sensitive receptors at a height of 1.8 meters (5.9 feet).

The maximum modeled DPM concentration occurred at a residence adjacent to the southern boundary of the construction area. Increased cancer risks were calculated using the maximum modeled annual DPM concentrations and BAAQMD recommended risk assessment methods that include both child exposures (3rd trimester through two years of age) and adult exposures. Infant and child exposures were assumed to occur at residences throughout the entire construction period. Since the modeling was conducted assuming emissions occur over a full year, the default BAAQMD exposure period of 350 days per year was used.

Results of this assessment indicate that the maximum construction residential child cancer risk is 16.1 in one million and a residential adult cancer risk of 0.8 in one million. While the maximum residential adult cancer risk is below the BAAQMD's threshold of 10 in one million excess cancer cases per million, the increased cancer risk for a residential child exposure is greater than the significance threshold. ***As a result, the project would have a significant impact with respect to community risk caused by construction activities. Air Quality Measures 1 and 2*** are recommended to address this potentially significant impact.

The maximum annual $PM_{2.5}$ concentrations would be 0.18 $\mu g/m^3$, which would be below the BAAQMD significance threshold of 0.3 $\mu g/m^3$. Associated non-cancer hazards would be well below BAAQMD thresholds for DPM, with a chronic hazard index computed at 0.04. Acute non-cancer health effects are not associated with DPM. This hazard index is much lower than the BAAQMD significance threshold of greater than 1.0. *Attachment 2* includes the emission calculations used for the construction area source modeling and the cancer risk calculations.

Implementation of *Air Quality Measure 1* is considered to reduce exhaust emissions by 5 percent. Implementation of *Air Quality Measure 2* would further reduce on-site diesel exhaust emissions. The computed maximum excess residential child cancer risk with implementation of *Air Quality Measures 1 and 2* would be reduced below 9.7 in one million, which is below the BAAQMD threshold of 10 per one million. *After implementation of these recommended measures, the project would have a less-than-significant impact with respect to community risk caused by construction activities.*

Air Quality Measure 2: Selection of Tier 4 engines for all compressors and all diesel-fueled equipment used during the building construction phases to minimize emissions. Such equipment selection would include the following:

1. Diesel-powered compressors and all diesel-fueled equipment used during building construction shall meet U.S. EPA particulate matter emissions standards for Tier 4 engines or equivalent; or the construction contractor shall use other measures to minimize construction period diesel particulate matter emissions to reduce the predicted cancer risk below the threshold. Such measures may include the use of alternative-powered equipment (e.g., LPG-powered forklifts), alternative fuels (e.g., biofuels), added exhaust devices, or a combination of measures, provided that these measures are approved by the lead agency; and

2. Minimize the number of hours that equipment will operate including the use of idling restrictions.

Operational Health Risk

State Route 17

Busy highways are a source of TAC emissions that could affect new sensitive receptors, such as residences. BAAQMD provides screening tools that indicate predicted community risk impacts that highways pose. BAAQMD's Google Earth Highway Screening Analysis Tool is a Google Earth map tool used to identify estimated risk and hazard impacts from highways throughout the Bay Area. This tool was used to identify potential TAC exposure from SR 17 at the proposed project site. The nearest proposed residence is located approximately 750 feet south of SR 17. At this distance, the screening level risk indicated by the Highway Tool is 3.8 in one million excess cancer risk, 0.03 $\mu g/m^3$ $PM_{2.5}$ concentration, and acute or chronic hazard index of less than 0.01. These screening level risks are all well below BAAQMD significance thresholds, and operational health risk impacts from SR 17 would be considered *less than significant*.

Stationary Sources

Stationary sources of TAC that could affect the project site were identified using BAAQMD's Stationary Source Screening Analysis Tool. This is a Google Earth map tool that identifies stationary sources and associated estimated risk and hazard impacts. These tools that were used to identify TAC exposure are available at BAAQMD's website.[7] A review of BAAQMD's Google Earth map tool used to identify stationary sources did not reveal any sources with substantial risk near the project site (i.e., within 1,000 feet). Therefore, the potential health risk impact from surrounding stationary sources would be *less than significant*.

[7] Website: http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx. Accessed: March 26, 2013.

Cumulative Risk

Since SR 17 was the only substantial source of TAC identified in the project vicinity, cumulative TAC impacts to proposed sensitive receptors were evaluated by comparing the screening level risks from SR 17 addressed above to the BAAQMD Community Risk significance thresholds for cumulative sources. All of these levels are well below the BAAQMD thresholds of 100 per million cancer risk, 0.8 $\mu g/m^3$ annual $PM_{2.5}$ concentration, and 10.0 hazard index. *As a result, the project would be considered have a less than significant impact with respect to cumulative community risk.*

Question 5: Would the Project create objectionable odors affecting a substantial number of people?

The project would generate localized emissions of diesel exhaust during construction equipment operation and truck activity. These emissions may be noticeable from time to time by adjacent receptors. However, they would be temporary and localized and are not likely to adversely affect people off-site to the extent that they would result in confirmed odor complaints. The project site is not affected by existing odor sources that would cause odor complaints. This would be a *less-than-significant* impact.

Question 6: Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

GHG Significance Thresholds

The BAAQMD CEQA Air Quality Guidelines contain methodology and thresholds of significance for evaluating greenhouse gas (GHG) emissions from land use type projects. The BAAQMD thresholds were developed specifically for the Bay Area after considering the latest Bay Area GHG inventory and the effects of AB 32 scoping plan measures that would reduce regional emissions. BAAQMD intends to achieve GHG reductions from new land use developments to close the gap between projected regional emissions with AB 32 scoping plan measures and the AB 32 targets. The BAAQMD suggested applying GHG efficiency thresholds to projects with emissions of 1,100 metric tons (MT) of CO_2e (carbon dioxide equivalency) or greater.[8] Projects that have emissions below 1,100 MT of CO_2e per year are considered to have less than significant GHG emissions. Due to the project size, operational period GHG emissions would be less than significant. In their May 2011 update to the CEQA Air Quality Guidelines, BAAQMD identified screening criteria for the sizes of land use projects that could result in significant GHG emissions. For operational impacts, the screening project size is identified at 56 dwelling units. Single-family housing development projects of smaller size would be expected to have less-than-significant impacts with respect to operational period emissions. Since the project proposes 17 dwelling units, it is concluded that operational emissions would be below the BAAQMD significance threshold of 1,100 MT of CO_2e annually and, therefore, *this impact is considered less than significant*.

[8] BAAQMD. 2009, op. cit.

Construction Emissions

The CalEEMod model was used to predict construction GHG emissions. An approximate 19-month construction schedule was assumed in the modeling. Construction phases included demolition, site preparation, grading, paving, building construction and application of architectural coatings. Construction modeling is described under *Question 2*.

GHG emissions associated with construction are anticipated to occur in 2014 and 2015. Under this scenario, construction of the project is calculated to emit 518 and 120 MT of CO_2e, respectively, per year. Neither the Town of Los Gatos nor BAAQMD have quantified thresholds for construction activities, though estimated construction GHG emissions would be below the only threshold established by BAAQMD (1,100 MT of CO_2e per year). However, BAAQMD encourages the incorporation of BMPs to reduce GHG emissions during construction where feasible and applicable. BMPs may include, but are not limited to, using alternative fueled (e.g., biodiesel, electric) construction vehicles/equipment for at least 15 percent of the fleet; using at least 10 percent local building materials; and recycling or reusing at least 50 percent of construction waste or demolition materials.

Consistency with Adopted Plans to Reduce GHG Emissions

The project would be subject to new requirements under rule making developed at the State and local level regarding greenhouse gas emissions and be subject to local policies, including the 2012 Sustainability Plan, that may affect emissions of greenhouse gases. Of the Greenhouse Gas Emissions Reduction Measures listed in the Plan, the following are relevant to the proposed project: GC-1 Green Building Ordinance (once developed); GB-2 GreenPoint Rated Building Guidelines; RE-2 New Solar Homes Partnership; RE-5 Solar Ready Features; EC-1 Energy-Efficient Appliances and Lighting; Energy-Efficient Outdoor Lighting; EC-9 Heat Island Mitigation Plan (once developed); EC-10 Heat Gain Reduction; WW-1 Water Use and Efficiency Requirements; WW-3 Bay Friendly Landscaping; SW-1 Construction Waste Diversion (once existing ordinance is revised); and SW-3 Salvaged, Recycled-Content, and Local Construction Materials. To our knowledge, the project does not currently propose to implement these Sustainability Plan measures and, therefore, it is recommended that they be incorporated as part of final project design.

Attachment 1: **CalEEMod Input and Output**
Attachment 2: **Construction Health Risk Modeling**

Attachment 1

Sisters of the Holy Names

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Single Family Housing	17	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Pacific Gas & Electric Company
Climate Zone	4		2.2		
		Precipitation Freq (Days)			
			58		

1.3 User Entered Comments

Construction Phase - Consturction schedule provided by project applicant. Default building construction and architectural coating durations assumed.

Off-road Equipment - Load factors reduced by 33% to be consistent with OFFROAD2010 modeling methodologies.

Off-road Equipment - Load factors reduced by 33% to be consistent with OFFROAD2010 modeling methodologies.

Off-road Equipment - Demolition equipment list provided by project applicant.

Off-road Equipment - Load factors reduced by 33% to be consistent with OFFROAD2010 modeling methodologies.

Off-road Equipment - Load factors reduced by 33% to be consistent with OFFROAD2010 modeling methodologies.

Off-road Equipment - Load factors reduced by 33% to be consistent with OFFROAD2010 modeling methodologies.

Trips and VMT - Demolition haul truck volume based on Draft Demolition Report (Buccanneer Demolition, Inc., 2013).

Demolition - Approx. 516 one-way demo haul truck trips.

Grading - 2,000 CY Soil Export.

Architectural Coating - Adjusted to 150 g/L VOC in accordance with BAAQMD, Regulation 8, Rule 3.

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.59	4.54				0.23	1.14		0.23	0.53	0.00	517.22	517.22	0.05	0.00	518.21
2015	0.43	0.95				0.07	0.07		0.07	0.07	0.00	119.99	119.99	0.01	0.00	120.24
Total	**1.02**	**5.49**				**0.30**	**1.21**		**0.30**	**0.60**	**0.00**	**637.21**	**637.21**	**0.06**	**0.00**	**638.45**

3.0 Construction Detail

3.1 Mitigation Measures Construction

3.2 Demolition - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.18	1.52				0.07	0.07		0.07	0.07	0.00	170.10	170.10	0.01	0.00	170.41
Total	**0.18**	**1.52**				**0.07**	**0.07**		**0.07**	**0.07**	**0.00**	**170.10**	**170.10**	**0.01**	**0.00**	**170.41**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.01	0.11				0.00	0.20		0.00	0.00	0.00	19.17	19.17	0.00	0.00	19.18
Vendor	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00				0.00	0.01		0.00	0.00	0.00	4.61	4.61	0.00	0.00	4.62
Total	**0.01**	**0.11**				**0.00**	**0.21**		**0.00**	**0.00**	**0.00**	**23.78**	**23.78**	**0.00**	**0.00**	**23.80**

3.3 Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.00	0.36		0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.13	1.03				0.05	0.05		0.05	0.05	0.00	100.15	100.15	0.01	0.00	100.37
Total	**0.13**	**1.03**				**0.05**	**0.41**		**0.05**	**0.25**	**0.00**	**100.15**	**100.15**	**0.01**	**0.00**	**100.37**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00				0.00	0.00		0.00	0.00	0.00	3.61	3.61	0.00	0.00	3.62
Total	**0.00**	**0.00**				**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**3.61**	**3.61**	**0.00**	**0.00**	**3.62**

3.4 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust						0.00	0.19		0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.12	0.92				0.05	0.05		0.05	0.05	0.00	96.05	96.05	0.01	0.00	96.26
Total	**0.12**	**0.92**				**0.05**	**0.24**		**0.05**	**0.15**	**0.00**	**96.05**	**96.05**	**0.01**	**0.00**	**96.26**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.01	0.05				0.00	0.14		0.00	0.00	0.00	9.29	9.29	0.00	0.00	9.29
Vendor	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00				0.00	0.01		0.00	0.00	0.00	4.51	4.51	0.00	0.00	4.52
Total	**0.01**	**0.05**				**0.00**	**0.15**		**0.00**	**0.00**	**0.00**	**13.80**	**13.80**	**0.00**	**0.00**	**13.81**

3.5 Building Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.13	0.87				0.06	0.06		0.06	0.06	0.00	103.13	103.13	0.01	0.00	103.34
Total	**0.13**	**0.87**				**0.06**	**0.06**		**0.06**	**0.06**	**0.00**	**103.13**	**103.13**	**0.01**	**0.00**	**103.34**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.02				0.00	0.00		0.00	0.00	0.00	2.95	2.95	0.00	0.00	2.96
Worker	0.00	0.00				0.00	0.00		0.00	0.00	0.00	3.64	3.64	0.00	0.00	3.65
Total	**0.00**	**0.02**				**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**6.59**	**6.59**	**0.00**	**0.00**	**6.61**

3.5 Building Construction - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.10	0.71				0.05	0.05		0.05	0.05	0.00	92.90	92.90	0.01	0.00	93.08
Total	**0.10**	**0.71**				**0.05**	**0.05**		**0.05**	**0.05**	**0.00**	**92.90**	**92.90**	**0.01**	**0.00**	**93.08**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.01				0.00	0.00		0.00	0.00	0.00	2.67	2.67	0.00	0.00	2.67
Worker	0.00	0.00				0.00	0.00		0.00	0.00	0.00	3.21	3.21	0.00	0.00	3.21
Total	**0.00**	**0.01**				**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**5.88**	**5.88**	**0.00**	**0.00**	**5.88**

3.6 Paving - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.03	0.20				0.02	0.02		0.02	0.02	0.00	17.95	17.95	0.00	0.00	18.01
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.03**	**0.20**				**0.02**	**0.02**		**0.02**	**0.02**	**0.00**	**17.95**	**17.95**	**0.00**	**0.00**	**18.01**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00				0.00	0.00		0.00	0.00	0.00	1.47	1.47	0.00	0.00	1.47

Total	**0.00**	**0.00**				**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**1.47**	**1.47**	**0.00**	**0.00**	**1.47**

3.7 Architectural Coating - 2015

Unmitigated Construction On-Site

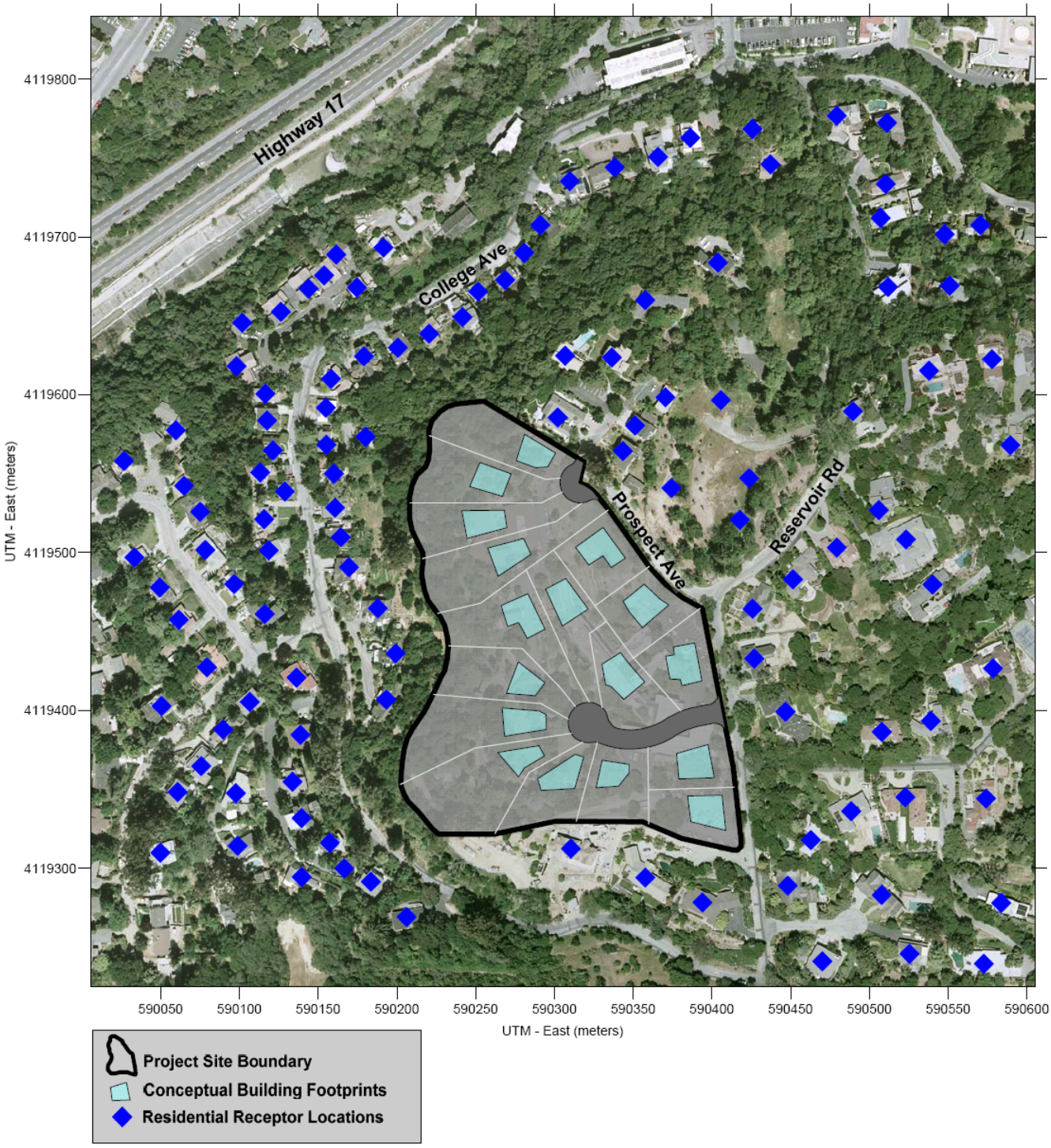
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.29					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.00	0.02				0.00	0.00		0.00	0.00	0.00	1.70	1.70	0.00	0.00	1.70
Total	**0.29**	**0.02**				**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**1.70**	**1.70**	**0.00**	**0.00**	**1.70**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00				0.00	0.00		0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.10
Total	**0.00**	**0.00**				**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.10**	**0.10**	**0.00**	**0.00**	**0.10**

Attachment 2

Figure 1. Project Construction Site and Sensitive Receptor Locations



Project Name: **Sisters of the Holy Names**

Qty	Description	Horsepower	Load Factor	Hours/ Day	Work Days	Total Annual Hours	Comments
Start Year	2014						
Demolition		Start Date: *(1/1/2014)*					Hauling volume = 6578 cubic yards
1	Jaw Crusher	230	0.52	8	15	120	516 truck trips
1	Backhoe Loader	110	0.37	6	10	60	
1	Track Loader	229	0.37	8	7	56	
2	Hydraulic Excavator	247	0.38	8	40	640	
2	Long Reach Excavator	270	0.38	8	28	448	
2	Skid Steer Loader	76	0.37	8	40	640	
1	Concrete Industrial Saw	81	0.49	8	40	320	
Site Preparation		Start Date: *(2/26/2014)*					
3	Rubber Tired Dozers	358	0.39	8	40	960	
4	Tractors/Loaders/Backhoes	75	0.37	8	40	1280	
Grading		Start Date: *(4/23/2014)*					Hauling volume
1	Excavators	157	0.38	8	60	480	Export volume = 2,000 cubic yards
1	Graders	162	0.41	8	60	480	250 trips
1	Rubber Tired Dozers	358	0.39	8	60	480	
3	Tractors/Loaders/Backhoes	75	0.37	8	60	1440	
Building Construction		Start Date: *(7/16/2014)*					
1	Cranes	208	0.29	0.1	230	23	
3	Forklifts	149	0.2	8	230	5520	
1	Generator Sets	84	0.49	4	230	920	
3	Tractors/Loaders/Backhoes	75	0.37	7	230	4830	
1	Welders	46	0.3	1	230	230	
Paving		Start Date: (6/3/2015)					
2	Pavers	89	0.41	8	20	320	
2	Paving Equipment	82	0.35	8	20	320	
2	Rollers	84	0.37	8	20	320	
Architectural Coating		Start Date: *(7/1/2015)*					
1	Compressors	78	0.32	6	20	120	

Construction Equipment & Onsite Exhaust Emissions
Sisters of the Holy Names - 2014-2015 Construction with Tier 2 Equipment (Unmitigated)

Analysis Year = 2014 - 2015

Off-Road Equipment / Equipment Type	No. Units	Engine Age (years)	Engine Model Year	Daily Hours In Use	Days Per Year	Unit Annual Hours Use	Use Factor	Load Factor	Cumulative Hours Operation Per Unit	Engine (hp)	Fuel Type	Emission Factor (g/hp-hr) NOx	CO	VOC	PM2.5	SO2	CO2	Annual Emissions (lb/yr) NOx	CO	VOC	PM2.5	SO2	CO2
Construction Activities																							
Demolition (1/1/2014 - 2/25/2014)																							
Concrete/Industrial Saws	1	8	2006	8	40	320	1.00	0.49	4,644	81	ULSD	5.08	3.47	0.32	0.24	0.007	559.8	142.2	97.2	8.8	6.78	0.19	15674
Crushing/Proc. Equipment	1	8	2006	3	40	120	1.00	0.52	7,640	230	ULSD	4.61	1.11	0.30	0.12	0.006	559.8	145.9	35.0	9.6	3.68	0.20	17712
Excavators	2	8	2006	8	40	320	1.00	0.38	4,368	247	ULSD	4.41	1.03	0.22	0.10	0.006	559.8	584.6	135.9	29.8	13.40	0.85	74133
Excavators	2	8	2006	5.6	40	224	1.00	0.38	4,368	270	ULSD	2.45	1.00	0.21	0.10	0.006	559.8	248.7	101.3	21.2	10.17	0.57	56725
Track Loader	1	8	2006	1.4	40	56	1.00	0.37	4,096	229	ULSD	4.40	1.02	0.22	0.10	0.006	559.8	46.0	10.7	2.3	1.05	0.07	5856
Skid Steer Loaders	2	8	2006	8	40	320	1.00	0.37	2,376	76	ULSD	4.92	3.29	0.25	0.21	0.007	559.8	195.1	130.3	10.1	8.34	0.26	22210
Tractors/Loaders/Backhoes	1	8	2006	1.5	40	60	1.00	0.37	4,096	110	ULSD	5.04	3.43	0.30	0.23	0.007	559.8	27.1	18.4	1.6	1.26	0.04	3014
Site Preparation (2/26/2014 - 4/22/2014)																							
Rubber Tired Dozers	3	8	2006	8	40	320	1.00	0.39	6,136	358	ULSD	2.51	1.03	0.25	0.11	0.006	559.8	741.0	304.9	74.9	31.97	1.65	165413
Tractors/Loaders/Backhoes	4	8	2006	8	40	320	1.00	0.37	4,096	75	ULSD	5.04	3.43	0.30	0.23	0.007	559.8	394.6	268.3	23.6	18.35	0.52	43835
Grading (4/23/2014 - 7/15/2014)																							
Excavators	1	8	2006	8	60	480	1.00	0.38	4,368	157	ULSD	4.48	3.01	0.27	0.16	0.006	559.8	282.6	190.2	17.2	10.04	0.404	35341
Graders	1	8	2006	8	60	480	1.00	0.41	4,880	162	ULSD	4.51	3.05	0.29	0.16	0.006	559.8	316.9	214.3	20.1	11.51	0.450	39345
Rubber Tired Dozers	1	8	2006	8	60	480	1.00	0.39	6,136	358	ULSD	2.51	1.03	0.25	0.11	0.006	559.8	370.5	152.4	37.4	15.99	0.824	82706
Tractors/Loaders/Backhoes	3	8	2006	8	60	480	1.00	0.37	4,096	75	ULSD	5.04	3.43	0.30	0.23	0.007	559.8	443.9	301.8	26.5	20.64	0.587	49315
Building Construction (7/16/2014 - 6/2/2015)																							
Cranes	1	8	2006	0.1	230	23	1.00	0.29	3,552	208	ULSD	4.37	1.01	0.21	0.10	0.006	559.8	13.4	3.1	0.6	0.30	0.02	1712
Forklifts	3	8	2006	8	230	1840	1.00	0.20	5,520	149	ULSD	4.55	3.09	0.30	0.17	0.006	559.8	1649.0	1122.1	109.5	61.60	2.32	203005
Generator Sets	1	8	2006	4	230	920	1.00	0.49	6,520	84	ULSD	5.21	3.63	0.37	0.27	0.007	559.8	434.9	302.7	30.6	22.41	0.56	46732
Tractors/Loaders/Backhoes	3	8	2006	7	230	1610	1.00	0.37	4,096	75	ULSD	5.04	3.43	0.30	0.23	0.007	559.8	1488.9	1012.4	88.9	69.24	1.97	165410
Welders	1	8	2006	1	230	230	1.00	0.30	5,144	46	ULSD	5.11	4.35	0.52	0.37	0.007	559.8	35.7	30.5	3.6	2.59	0.05	3917
Paving (6/3/2015 - 6/30/2015)																							
Pavers	2	8	2006	8	20	160	1.00	0.41	2,592	89	ULSD	4.93	3.30	0.26	0.21	0.007	559.8	127.0	85.0	6.7	5.49	0.17	14410
Paving Equipment	2	8	2006	8	20	160	1.00	0.35	3,200	82	ULSD	4.98	3.35	0.28	0.22	0.007	559.8	100.7	67.9	5.6	4.49	0.14	11334
Rollers	2	8	2006	8	20	160	1.00	0.37	2,392	84	ULSD	4.92	3.29	0.25	0.21	0.007	559.8	107.8	72.1	5.6	4.61	0.15	12274
Architectural Coating (7/1/2015 - 7/28/2015)																							
Compressors	1	8	2006	6	20	120	1.00	0.32	6,520	78	ULSD	5.21	3.63	0.37	0.27	0.007	559.8	34.4	23.9	2.4	1.77	0.044	3696
Subtotal																							
Total Off-Road Equipment																		**7931.0**	**4680.3**	**536.7**	**325.67**	**12.0**	**1,073,768**

On-Site On-Road Vehicles	No. Trucks		Onsite Travel (ft) per Truck	Daily Hours In Use	Days Per Year	Annual Hours per Truck	Idle Minutes per Truck	Annual Miles per Truck						Idle PM2.5 (g/hr)	PM2.5 (g/mi)			NOx	CO	VOC	PM2.5	SO2	CO2
Demolition (1/1/2014 - 2/25/2014)																							
Water Truck	1	-	-	2	40	80	-	400		-	ULSD				0.482						0.42		
Haul Trucks	258		866	-	-	-	10	0.16		-	ULSD			0.353	0.482						0.08		
Site Preparation (2/26/2014 - 4/22/2014)																							
Water Truck	1	-	-	2	40	80	-	400		-	ULSD				0.482						0.42		
Grading (4/23/2014 - 7/15/2014)																							
Water Truck	1	-	-	2	60	120	-	600		-	ULSD				0.482						0.64		
Haul Trucks	125		1356	-	-	-	10	0.26		-	ULSD			0.353	0.482						0.05		
Building Construction (7/16/2014 - 6/2/2015)																							
Vendor Trucks	230		1356	-	-	-	10	0.26		-	ULSD			0.353	0.482						0.09		
Total On-Road Vehicles																					**1.28**		
TOTAL On-Site - On and Off Road	-			-	-		-	-	-	-	-	-	-	-	-						**326.95**		

Notes: Cumulative hours operation based on statewide averages
Onsite truck travel speed of 5 mph.

326.95 DPM lb/yr
0.163 DPM ton/yr

Emission Factors - Off-Road Compression Ignited Engines

Item No.	EF ID	NOx ZH EF (g/hp-hr)	NOx DR (g/hp-hr^2)	NOx Fuel CF	CO ZH EF (g/hp-hr)	CO DR (g/hp-hr^2)	CO Fuel CF	ROG ZH EF (g/hp-hr)	ROG DR (g/hp-hr^2)	ROG Fuel CF	PM2.5 ZH EF (g/hp-hr)	PM2.5 DR (g/hp-hr^2)	PM2.5 Fuel CF	CO2 ZH EF (g/hp-hr)	CO2 DR (g/hp-hr^2)	CO2 Fuel CF	SO2 (g/hp-hr)
Demolition (1/1/2014 - 2/25/2014)																	
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD2502006	4.38	6.33E-05	0.95	0.92	2.43E-05	1.00	0.12	2.40E-05	1.00	0.10	5.79E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD2502006	4.38	6.33E-05	0.95	0.92	2.43E-05	1.00	0.12	2.40E-05	1.00	0.10	5.79E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD5002006	2.45	3.18E-05	0.95	0.92	1.82E-05	1.00	0.10	2.50E-05	1.00	0.10	5.55E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD2502006	4.38	6.33E-05	0.95	0.92	2.43E-05	1.00	0.12	2.40E-05	1.00	0.10	5.79E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
Site Preparation (2/26/2014 - 4/22/2014)																	
	ULSD5002006	2.45	3.18E-05	0.95	0.92	1.82E-05	1.00	0.10	2.50E-05	1.00	0.10	5.55E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
Grading (4/23/2014 - 7/15/2014)																	
	ULSD1752006	4.44	6.46E-05	0.95	2.70	7.14E-05	1.00	0.16	2.57E-05	1.00	0.15	1.18E-05	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1752006	4.44	6.46E-05	0.95	2.70	7.14E-05	1.00	0.16	2.57E-05	1.00	0.15	1.18E-05	0.80	568.30	0.00E+00	0.99	0.006
	ULSD5002006	2.45	3.18E-05	0.95	0.92	1.82E-05	1.00	0.10	2.50E-05	1.00	0.10	5.55E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
Building Construction (7/16/2014 - 6/2/2015)																	
	ULSD2502006	4.38	6.33E-05	0.95	0.92	2.43E-05	1.00	0.12	2.40E-05	1.00	0.10	5.79E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1752006	4.44	6.46E-05	0.95	2.70	7.14E-05	1.00	0.16	2.57E-05	1.00	0.15	1.18E-05	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD502006	4.88	9.83E-05	0.95	2.86	2.90E-04	1.00	0.24	5.45E-05	1.00	0.32	2.72E-05	0.80	568.30	0.00E+00	0.99	0.007
Paving (6/3/2015 - 6/30/2015)																	
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
Architectural Coating (7/1/2015 - 7/28/2015)																	
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007

Notes ZH EF = Zero hour emission factor
DR = Deterioration rate
ULSD = Ultra low sulfur diesel (15 ppmw sulfur, 0.0015% sulfur)

Refs: CARB OFFFROAD model (http://www.arb.ca.gov/msei/offroad/offroad.htm), December, 2006.
Stationary/Off-road engines ARB, "California's Emissions Inventory for Off-Road Large Compression-Ignited (CI) Engines (> 25 HP)" MAC#99-32

Construction Equipment & Onsite Exhaust Emissions
Sisters of the Holy Names - 2014-2015 Construction with Mitigatoin

Analysis Year = 2014 - 2015

Off-Road Equipment / Equipment Type	No. Units	Engine Age (years)	Engine Model Year	Daily Hours In Use	Days Per Year	Unit Annual Hours Use	Use Factor	Load Factor	Cumulative Hours Operation Per Unit	Engine (hp)	Fuel Type	Emission Factor (g/hp-hr) NOx	CO	VOC	PM2.5	SO2	CO2	Annual Emissions (lb/yr) NOx	CO	VOC	PM2.5	SO2	CO2
Construction Activities																							
Demolition (1/1/2014 - 2/25/2014)																							
Concrete/Industrial Saws	1	8	2006	8	40	320	1.00	0.49	4,644	81	ULSD	5.08	3.47	0.32	0.24	0.007	559.8	142.2	97.2	8.8	6.78	0.19	15674
Crushing/Proc. Equipment	1	8	2006	3	40	120	1.00	0.52	7,640	230	ULSD	4.61	1.11	0.30	0.12	0.006	559.8	145.9	35.0	9.6	3.68	0.20	17712
Excavators	2	8	2006	8	40	320	1.00	0.38	4,368	247	ULSD	4.41	1.03	0.22	0.10	0.006	559.8	584.6	135.9	29.8	13.40	0.85	74133
Excavators	2	8	2006	5.6	40	224	1.00	0.38	4,368	270	ULSD	2.45	1.00	0.21	0.10	0.006	559.8	248.7	101.3	21.2	10.17	0.57	56725
Track Loader	1	8	2006	1.4	40	56	1.00	0.37	4,096	229	ULSD	4.40	1.02	0.22	0.10	0.006	559.8	46.0	10.7	2.3	1.05	0.07	5856
Skid Steer Loaders	2	8	2006	8	40	320	1.00	0.37	2,376	76	ULSD	4.92	3.29	0.25	0.21	0.007	559.8	195.1	130.3	10.1	8.34	0.26	22210
Tractors/Loaders/Backhoes	1	8	2006	1.5	40	60	1.00	0.37	4,096	110	ULSD	5.04	3.43	0.30	0.23	0.007	559.8	27.1	18.4	1.6	1.26	0.04	3014
Site Preparation (2/26/2014 - 4/22/2014)																							
Rubber Tired Dozers	3	8	2006	8	40	320	1.00	0.39	6,136	358	ULSD	2.51	1.03	0.25	0.11	0.006	559.8	741.0	304.9	74.9	31.97	1.65	165413
Tractors/Loaders/Backhoes	4	8	2006	8	40	320	1.00	0.37	4,096	75	ULSD	5.04	3.43	0.30	0.23	0.007	559.8	394.6	268.3	23.6	18.35	0.52	43835
Grading (4/23/2014 - 7/15/2014)																							
Excavators	1	8	2006	8	60	480	1.00	0.38	4,368	157	ULSD	4.48	3.01	0.27	0.16	0.006	559.8	282.6	190.2	17.2	10.04	0.404	35341
Graders	1	8	2006	8	60	480	1.00	0.41	4,880	162	ULSD	4.51	3.05	0.29	0.16	0.006	559.8	316.9	214.3	20.1	11.51	0.450	39345
Rubber Tired Dozers	1	8	2006	8	60	480	1.00	0.39	6,136	358	ULSD	2.51	1.03	0.25	0.11	0.006	559.8	370.5	152.4	37.4	15.99	0.824	82706
Tractors/Loaders/Backhoes	3	8	2006	8	60	480	1.00	0.37	4,096	75	ULSD	5.04	3.43	0.30	0.23	0.007	559.8	443.9	301.8	26.5	20.64	0.587	49315
Building Construction (7/16/2014 - 6/2/2015)																							
Cranes	1	2	2012	0.1	230	23	1.00	0.29	888	208	ULSD	1.30	0.94	0.09	0.01	0.006	559.8	4.0	2.9	0.3	0.02	0.02	1712
Forklifts	3	2	2012	8	230	1840	1.00	0.20	1,380	149	ULSD	2.19	2.80	0.12	0.01	0.006	559.8	794.1	1014.9	43.5	3.06	2.32	203005
Generator Sets	1	2	2012	4	230	920	1.00	0.49	1,630	84	ULSD	2.45	3.18	0.13	0.06	0.007	559.8	204.6	265.6	10.7	5.08	0.56	46732
Tractors/Loaders/Backhoes	3	2	2012	7	230	1610	1.00	0.37	1,024	75	ULSD	2.43	3.13	0.11	0.06	0.007	559.8	718.4	925.8	33.6	17.32	1.97	165410
Welders	1	2	2012	1	230	230	1.00	0.30	1,286	46	ULSD	4.67	3.07	0.15	0.14	0.007	559.8	32.7	21.5	1.1	0.97	0.05	3917
Paving (6/3/2015 - 6/30/2015)																							
Pavers	2	8	2006	8	20	160	1.00	0.41	2,592	89	ULSD	4.93	3.30	0.26	0.21	0.007	559.8	127.0	85.0	6.7	5.49	0.17	14410
Paving Equipment	2	8	2006	8	20	160	1.00	0.35	3,200	82	ULSD	4.98	3.35	0.28	0.22	0.007	559.8	100.7	67.9	5.6	4.49	0.14	11334
Rollers	2	8	2006	8	20	160	1.00	0.37	2,392	84	ULSD	4.92	3.29	0.25	0.21	0.007	559.8	107.8	72.1	5.6	4.61	0.15	12274
Architectural Coating (7/1/2015 - 7/28/2015)																							
Compressors	1	2	2012	6	20	120	1.00	0.32	1,630	78	ULSD	2.45	3.18	0.13	0.06	0.007	559.8	16.2	21.0	0.8	0.40	0.044	3696
Subtotal																							
Total Off-Road Equipment																		**6044.6**	**4437.4**	**390.9**	**194.62**	**12.0**	**1,073,768**

On-Site On-Road Vehicles	No. Trucks		Onsite Travel (ft) per Truck	Daily Hours In Use	Days Per Year	Annual Hours per Truck	Idle Minutes per Truck	Annual Miles per Truck						Idle PM2.5 (g/hr)	PM2.5 (g/mi)			NOx	CO	VOC	PM2.5	SO2	CO2
Demolition (1/1/2014 - 2/25/2014)																							
Water Truck	1	-	-	2	40	80	-	400		-	ULSD				0.482						0.42		
Haul Trucks	258		866	-	-	-	10	0.16		-	ULSD			0.353	0.482						0.08		
Site Preparation (2/26/2014 - 4/22/2014)																							
Water Truck	1	-	-	2	40	80	-	400		-	ULSD				0.482						0.42		
Grading (4/23/2014 - 7/15/2014)																							
Water Truck	1	-	-	2	60	120	-	600		-	ULSD				0.482						0.64		
Haul Trucks	125		1356	-	-	-	10	0.26		-	ULSD			0.353	0.482						0.05		
Building Construction (7/16/2014 - 6/2/2015)																							
Vendor Trucks	230		1356	-	-	-	10	0.26		-	ULSD			0.353	0.482						0.09		
Total On-Road Vehicles																					**1.28**		
TOTAL On-Site - On and Off Road	-			-	-		-	-	-	-	-	-	-	-	-						**195.90**		

Notes: Cumulative hours operation based on statewide averages
Onsite truck travel speed of 5 mph.

195.90 DPM lb/yr
0.098 DPM ton/yr

Emission Factors - Off-Road Compression Ignited Engines

Item No.	EF ID	NOx ZH EF (g/hp-hr)	NOx DR (g/hp-hr^2)	NOx Fuel CF	CO ZH EF (g/hp-hr)	CO DR (g/hp-hr^2)	CO Fuel CF	ROG ZH EF (g/hp-hr)	ROG DR (g/hp-hr^2)	ROG Fuel CF	PM2.5 ZH EF (g/hp-hr)	PM2.5 DR (g/hp-hr^2)	PM2.5 Fuel CF	CO2 ZH EF (g/hp-hr)	CO2 DR (g/hp-hr^2)	CO2 Fuel CF	SO2 (g/hp-hr)
Demolition (1/1/2014 - 2/25/2014)																	
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD2502006	4.38	6.33E-05	0.95	0.92	2.43E-05	1.00	0.12	2.40E-05	1.00	0.10	5.79E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD2502006	4.38	6.33E-05	0.95	0.92	2.43E-05	1.00	0.12	2.40E-05	1.00	0.10	5.79E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD5002006	2.45	3.18E-05	0.95	0.92	1.82E-05	1.00	0.10	2.50E-05	1.00	0.10	5.55E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD2502006	4.38	6.33E-05	0.95	0.92	2.43E-05	1.00	0.12	2.40E-05	1.00	0.10	5.79E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
Site Preparation (2/26/2014 - 4/22/2014)																	
	ULSD5002006	2.45	3.18E-05	0.95	0.92	1.82E-05	1.00	0.10	2.50E-05	1.00	0.10	5.55E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
Grading (4/23/2014 - 7/15/2014)																	
	ULSD1752006	4.44	6.46E-05	0.95	2.70	7.14E-05	1.00	0.16	2.57E-05	1.00	0.15	1.18E-05	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1752006	4.44	6.46E-05	0.95	2.70	7.14E-05	1.00	0.16	2.57E-05	1.00	0.15	1.18E-05	0.80	568.30	0.00E+00	0.99	0.006
	ULSD5002006	2.45	3.18E-05	0.95	0.92	1.82E-05	1.00	0.10	2.50E-05	1.00	0.10	5.55E-06	0.80	568.30	0.00E+00	0.99	0.006
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
Building Construction (7/16/2014 - 6/2/2015)																	
	ULSD2502012	1.36	1.75E-05	0.95	0.92	2.43E-05	1.00	0.07	1.83E-05	1.00	0.01	3.75E-07	0.85	568.30	0.00E+00	0.99	0.006
	ULSD1752012	2.27	2.88E-05	0.95	2.70	7.14E-05	1.00	0.09	2.17E-05	1.00	0.01	5.00E-07	0.85	568.30	0.00E+00	0.99	0.006
	ULSD1202012	2.53	3.38E-05	0.95	3.05	8.10E-05	1.00	0.09	2.31E-05	1.00	0.06	4.30E-06	0.85	568.30	0.00E+00	0.99	0.007
	ULSD1202012	2.53	3.38E-05	0.95	3.05	8.10E-05	1.00	0.09	2.31E-05	1.00	0.06	4.30E-06	0.85	568.30	0.00E+00	0.99	0.007
	ULSD502012	4.80	1.00E-04	0.95	2.72	2.76E-04	1.00	0.10	4.00E-05	1.00	0.15	1.20E-05	0.85	568.30	0.00E+00	0.99	0.007
Paving (6/3/2015 - 6/30/2015)																	
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
	ULSD1202006	5.01	7.45E-05	0.95	3.09	8.21E-05	1.00	0.19	2.71E-05	1.00	0.22	1.76E-05	0.80	568.30	0.00E+00	0.99	0.007
Architectural Coating (7/1/2015 - 7/28/2015)																	
	ULSD1202012	2.53	3.38E-05	0.95	3.05	8.10E-05	1.00	0.09	2.31E-05	1.00	0.06	4.30E-06	0.85	568.30	0.00E+00	0.99	0.007

Notes ZH EF = Zero hour emission factor
DR = Deterioration rate
ULSD = Ultra low sulfur diesel (15 ppmw sulfur, 0.0015% sulfur)

Refs: CARB OFFFROAD model (http://www.arb.ca.gov/msei/offroad/offroad.htm), December, 2006.
Stationary/Off-road engines ARB, "California's Emissions Inventory for Off-Road Large Compression-Ignited (CI) Engines (> 25 HP)" MAC#99-32

Sisters of the Holy Names, Los Gatos, CA
Unmitigated DPM Construction Emissions

Construction Year	DPM Emissions (ton/year)	DPM Emissions (lb/yr)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emisson Rate $g/s/m^2$
2014								
Demolition	0.023	45.2	Demo1	17.6	0.00537	6.77E-04	7,585	8.92E-08
			Demo2	27.5	0.00838	1.06E-03	11,835	8.92E-08
			Total	***45.2***	***0.01375***	*0.00173*	***19,420***	8.92E-08
Construction	0.141	281.8	Const1	222.93	0.06786	8.55E-03	20,203	4.23E-07
			Const2	58.85	0.01791	2.26E-03	5,333	4.23E-07
			Total	***281.78***	***0.08578***	*0.01081*	***25,536***	4.23E-07

Notes:

Emissions assumed to be evenly distributed over each construction areas

hr/day =	9	(7am - 4pm)
days/yr =	365	
hours/year =	3285	

Sisters of the Holy Names, Los Gatos, CA
Mitigated DPM Construction Emissions

Construction Year	DPM Emissions (ton/year)	DPM Emissions (lb/yr)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emisson Rate $g/s/m^2$
2014								
Demolition	0.023	45.2	Demo1	17.6	0.00537	6.77E-04	7,585	8.92E-08
			Demo2	27.5	0.00838	1.06E-03	11,835	8.92E-08
			Total	***45.2***	***0.01375***	*0.00173*	***19,420***	8.92E-08
Construction	0.075	150.7	Const1	119.3	0.03630	4.57E-03	20,203	2.26E-07
			Const2	31.5	0.00958	1.21E-03	5,333	2.26E-07
			Total	***150.7***	***0.04588***	*0.00578*	***25,536***	2.26E-07

Notes:

Emissions assumed to be evenly distributed over each construction areas

hr/day =	9	(7am - 4pm)
days/yr =	365	
hours/year =	3285	

Sisters of the Holy Names - Los Gatos, CA - Construction Impacts Without Mitigation
Maximum Unmitigated DPM Cancer Risk Calculations From Construction
Offsite Residential Receptor Locations

Cancer Risk (per million) = CPF x Inhalation Dose x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$

Inhalation Dose = C_{air} x DBR x A x EF x ED x 10^{-6} / AT

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time period over which exposure is averaged.
10^{-6} = Conversion factor

Values

Parameter	Child	Adult
CPF =	1.10E+00	1.10E+00
DBR =	581	302
A =	1	1
EF =	350	350
AT =	25,550	25,550

Construction Cancer Risk by Year - Maximum Impact Receptor Location

	Exposure	Child - Exposure Information			Child	Adult - Exposure Information			Adult
	Exposure			Exposure	Cancer	Modeled		Exposure	Cancer
	Duration	DPM Conc (ug/m3)		Adjust	Risk	DPM Conc (ug/m3)		Adjust	Risk
Year	(years)	Year	Annual	Factor	(per million)	Year	Annual	Factor	(per million)
1	1	2014	0.1834	10	16.05	2014	0.1834	1	0.83
2	1		0.0000	10	0.00		0.0000	1	0.00
3	1		0.0000	4.75	0.00		0.0000	1	0.00
4	1		0.0000	3	0.00		0.0000	1	0.000
5	1		0.0000	3	0.00		0.0000	1	0.00
6	1		0.0000	3	0.00		0.0000	1	0.00
7	1		0.0000	3	0.00		0.0000	1	0.00
8	1		0.0000	3	0.00		0.0000	1	0.00
9	1		0.0000	3	0.00		0.0000	1	0.00
10	1		0.0000	3	0.00		0.0000	1	0.00
11	1		0.0000	3	0.00		0.0000	1	0.00
12	1		0.0000	3	0.00		0.0000	1	0.00
13	1		0.0000	3	0.00		0.0000	1	0.00
14	1		0.0000	3	0.00		0.0000	1	0.00
15	1		0.0000	3	0.00		0.0000	1	0.00
16	1		0.0000	3	0.00		0.0000	1	0.00
17	1		0.0000	1.5	0.00		0.0000	1	0.00
18	1		0.0000	1	0.00		0.0000	1	0.00
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.•	.•	.•	.•	.•	.•	.•	.•	.•	.•
65	1		0.0000	1	0.00		0.0000	1	0.00
66	1		0.0000	1	0.00		0.0000	1	0.00
67	1		0.0000	1	0.00		0.0000	1	0.00
68	1		0.0000	1	0.00		0.0000	1	0.00
69	1		0.0000	1	0.00		0.0000	1	0.00
70	1		0.0000	1	0.00		0.0000	1	0.00
Total Increased Cancer Risk					**16.1**				**0.8**

Note: Maximum DPM concentrations occur at a residence adjacent to southern property boundary

Sisters of the Holy Names, Los Gatos, CA - Construction Impacts With Mitigation
Maximum Mitigated DPM Cancer Risk Calculations From Construction
Offsite Residential Receptor Locations

Cancer Risk (per million) = CPF x Inhalation Dose x 1.0E6

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$

Inhalation Dose = C_{air} x DBR x A x EF x ED x 10^{-6} / AT

Where: C_{air} = concentration in air ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time period over which exposure is averaged.
10^{-6} = Conversion factor

Values

Parameter	Child	Adult
CPF =	1.10E+00	1.10E+00
DBR =	581	302
A =	1	1
EF =	350	350
AT =	25,550	25,550

Construction Cancer Risk by Year - Maximum Impact Receptor Location

	Exposure	Child - Exposure Information			Child	Adult - Exposure Information			Adult
	Exposure			Exposure	Cancer	Modeled		Exposure	Cancer
	Duration	DPM Conc (ug/m3)		Adjust	Risk	DPM Conc (ug/m3)		Adjust	Risk
Year	(years)	Year	Annual	Factor	(per million)	Year	Annual	Factor	(per million)
1	1	2014	0.1109	10	9.70	2014	0.1109	1	0.50
2	1		0.0000	10	0.00		0.0000	1	0.00
3	1		0.0000	4.75	0.00		0.0000	1	0.00
4	1		0.0000	3	0.00		0.0000	1	0.000
5	1		0.0000	3	0.00		0.0000	1	0.00
6	1		0.0000	3	0.00		0.0000	1	0.00
7	1		0.0000	3	0.00		0.0000	1	0.00
8	1		0.0000	3	0.00		0.0000	1	0.00
9	1		0.0000	3	0.00		0.0000	1	0.00
10	1		0.0000	3	0.00		0.0000	1	0.00
11	1		0.0000	3	0.00		0.0000	1	0.00
12	1		0.0000	3	0.00		0.0000	1	0.00
13	1		0.0000	3	0.00		0.0000	1	0.00
14	1		0.0000	3	0.00		0.0000	1	0.00
15	1		0.0000	3	0.00		0.0000	1	0.00
16	1		0.0000	3	0.00		0.0000	1	0.00
17	1		0.0000	1.5	0.00		0.0000	1	0.00
18	1		0.0000	1	0.00		0.0000	1	0.00
.•	.•	.•	.•	.•	.•	.•	.•	.•	.•
.•	.•	.•	.•	.•	.•	.•	.•	.•	.•
.•	.•	.•	.•	.•	.•	.•	.•	.•	.•
65	1		0.0000	1	0.00		0.0000	1	0.00
66	1		0.0000	1	0.00		0.0000	1	0.00
67	1		0.0000	1	0.00		0.0000	1	0.00
68	1		0.0000	1	0.00		0.0000	1	0.00
69	1		0.0000	1	0.00		0.0000	1	0.00
70	1		0.0000	1	0.00		0.0000	1	0.00
Total Increased Cancer Risk					**9.7**				**0.5**

Note: Maximum DPM concentrations occur at a residence adjacent to southern property boundary

APPENDIX I

HISTORIC RESOURCES EVALUATION

HISTORIC RESOURCES EVALUATION

Sisters of the Holy Names of Jesus and Mary,
A California Corporation
200 Prospect Avenue,
Los Gatos, Santa Clara County, CA
(APN 529-44-005)

Prepared for:

Sisters of the Holy Names of Jesus and Mary, California Corporation
U. S.-Ontario Province Administration
Attn: Vicki Cummings
PO Box 398
Marylhurst, OR 97036

Prepared by:

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Sarah Winder, Historian
Jessica Kusz, Public Historian
Leslie A.G. Dill, Historic Architect

March, 2013

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1.0 INTRODUCTION

Archival research, site investigation, and evaluation for historical significance of the property known as the Sisters of the Holy Names of Jesus and Mary, located at 100 Prospect Ave. in the Town of Los Gatos, Santa Clara County, California was conducted in February and March 2011 by the firm of Archives & Architecture, LLC, with a follow-up and further investigation in December 2012. The Town of Los Gatos will be preparing environmental review documents for a proposed subdivision project involving the Sisters of the Holy Names of Jesus and Mary site. As part of that review, potential historical resources were being identified and evaluated by the authors of this report, and possible significant impacts assessed to determine if mitigation measures, if warranted, should be required by the Town.

The purpose of this report is to provide historical information and findings of potential historical significance, in order to clarify the potential for impacts upon historic resources as defined by the California Environmental Quality Act (CEQA), and to determine whether demolition of any buildings, structures, and other manmade features at the Sisters of the Holy Names of Jesus and Mary site would or would not have an adverse effect on the environment.

1.1 LOCATION AND PROPERTY IDENTIFIERS

The site of the proposed project is located west of Prospect Avenue at the terminus of Kimble Avenue and Reservoir Road within the loop of College Avenue. The property does not directly abut College Avenue—it is separated by a row of existing single-family properties and has little to no interface with these properties due to the area topography. The site is on a knoll within the southwestern hillside of the Town of Los Gatos. The adjacent single-family properties to the south, west and north along College Avenue, as well as those properties across Prospect Avenue to the east are on the down slope of this knoll.

The Santa Clara County Assessor presently identifies the subject property as APN 529-31-005.

The site is located within the USGS 7.5 Minute Series Los Gatos Quadrangle, within Township 8 South, Range 1 West, and can be located with UTM coordinates of zone 10S: 590382mE/ 4119445mN.

The subject property is located inside the southern boundary of the Town of Los Gatos. The Town's southern boundary cuts through the Sacred Heart Novitiate Center's lands to the south of the subject property, further up the hill. The Town limits to the west are located across the Los Gatos Creek, which lies at the bottom of the slope of the hill the subject property sits upon. The south line of the former *Rancho Rinconada de los Gatos* cuts through the midpoint of the subject property. The subject property is bordered along its western edge on the downslope by property formally owned by the San Jose Water Company that led to what was at one time the Tisdale Reservoir located near northeastern edge of the property. The former San Jose Water Company site is now owned by individual property owners along College Avenue.

The property owner of record is Sisters of the Holy Names of Jesus and Mary.

1.1.1 Regional Map

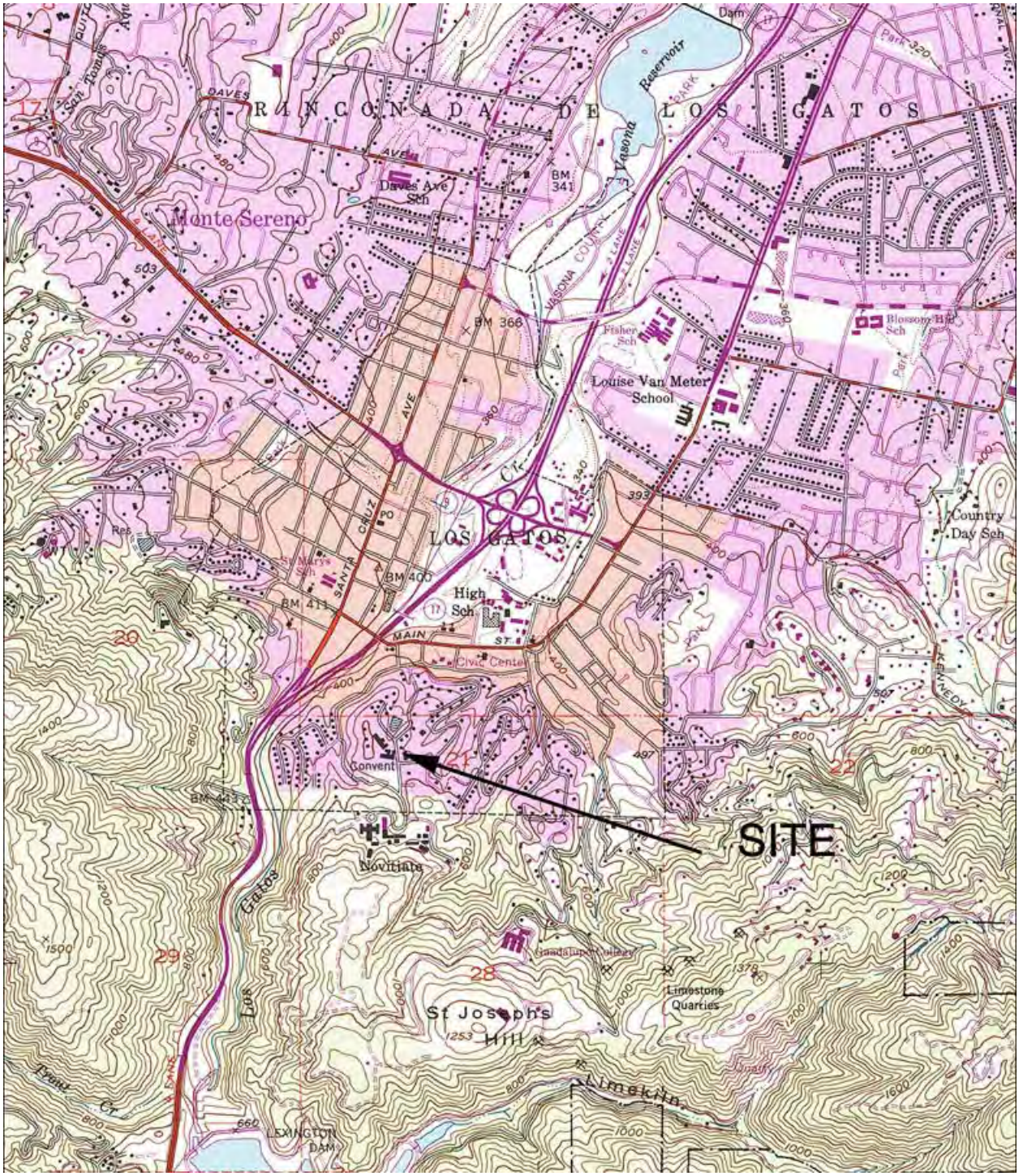

Figure 1.0 Partial USGS 7.5 Minute Series Los Gatos Quadrangle, 1980 photo revised.

1.2 PROJECT DESCRIPTION

Sisters of the Holy Names of Jesus and Mary is a religious order of women with a location in Los Gatos, California. For almost 70 years, the order has operated the facility in Los Gatos as a full service Convent, housing, care, education, retreat and religious facility. The parcel (APN 529-44-005) that is the subject of the proposed subdivision and discussed in this report consists of 10.3 acres, and contains six buildings and a number of ancillary structures (see **Figure 2** below for Preliminary Site Plan).

The project consists of a tentative map for a residential subdivision of 17 single-family residential lots of about half-an-acre each. The lots as proposed include building setbacks along the front of 30 feet, 15 feet along the sides, and 25 feet along the rear. Future development would include demolition of all of the extant structures and related driveways and some landscape features on the 10.3-acre site. Prospect Avenue, which fronts the property to the east, will be extended northwesterly into the site, and a new cul-de-sac will be created off Prospect Avenue toward the west about midway between Kimble and Reservoir Roads.

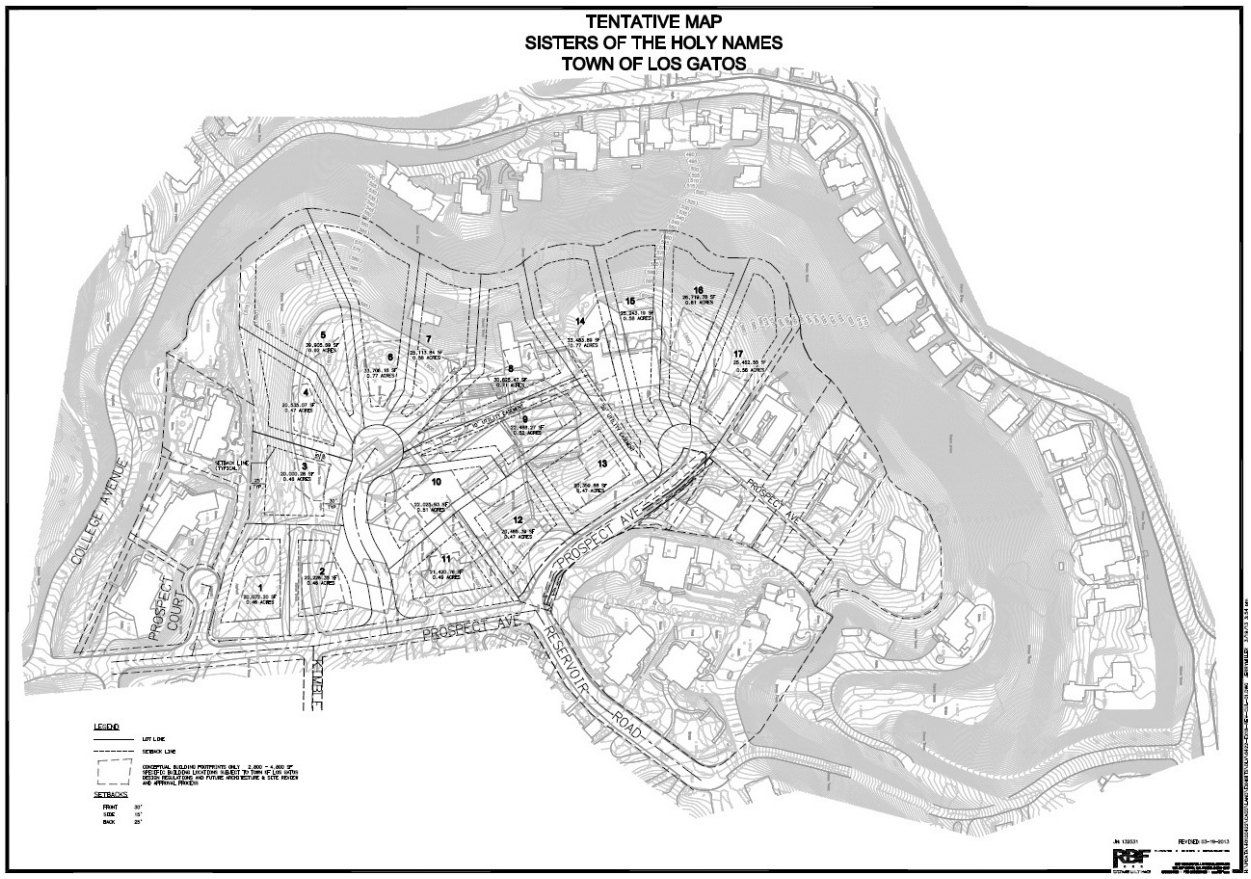

Figure 2 Preliminary Project Site Plan Boundaries and Lot Alignments (RBF Consulting 2/28/2013).

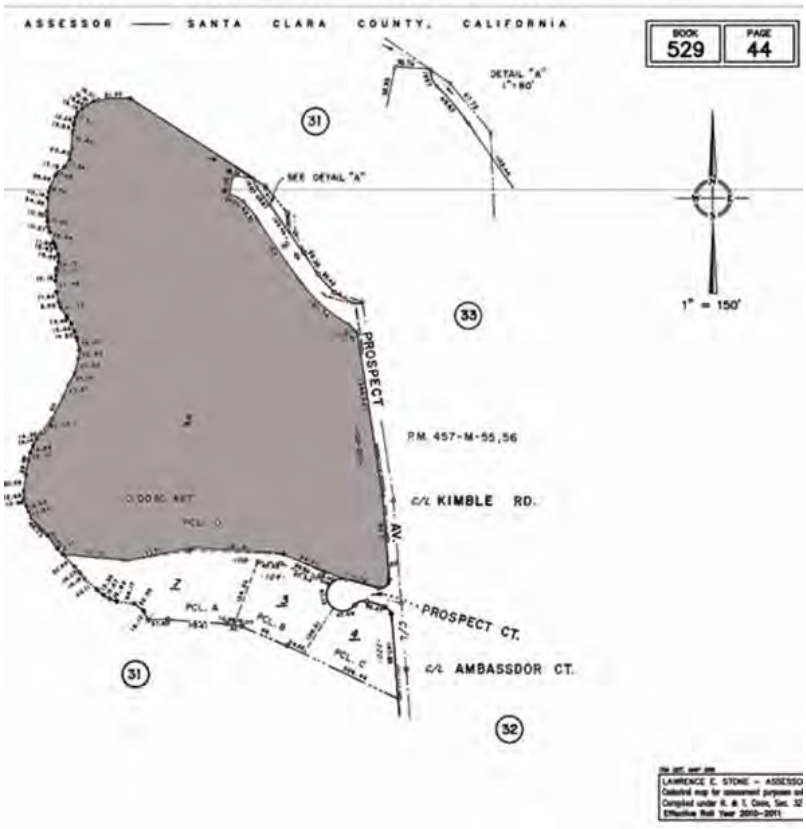

Figure 3 APN 529-44 -005 (SCC Assessor's Office).

1.3 QUALIFICATIONS OF THE CONSULTANTS

The principal author of this report and evaluator for significance was Franklin Maggi, Architectural Historian, who consults in the field of historic architecture and urban development. Mr. Maggi has a professional degree in architecture with an area of concentration in architectural history from the University of California, Berkeley.

Providing archival research and additional authorship for this report was Sarah Winder, Historian, and Jessica Kusz, Public Historian. Ms. Winder holds a Master of Arts in History from San Jose State University, and Jessica Kusz holds a Master of Science in Historic Preservation from the School of Art Institute of Chicago.

Leslie A.G. Dill, Historic Architect, prepared the technical descriptions of the buildings and structures within the attached DPR523 forms. Ms. Dill holds a Master of Architecture from the University of Virginia with a certificate in Historic Preservation, and is a California licensed architect.

All four of the investigators and historians who worked on this report, Franklin Maggi, Sarah Winder, Jessica Kusz, and Leslie A.G. Dill, are listed as qualified to do this work with the California Historic Resource Information System (CHRIS), which is operated under authority of the California State Office of Historic Preservation (OHP). CHRIS utilizes the criteria of the National Park Service outlined in 36 CFR Part 61.

1.4 METHODOLOGY

This document is presented in a report format, and addresses extant buildings and structures on the project site and also investigates prior use of the property during historic times. The Historical Overview and Context (**Section 2.1**) provides historical context for the site within the Town of Los Gatos beginning when the area was first entered by non-indigenous people in 1769 and subsequently settled under authority of the Spanish government.

The analysis of the buildings and site within the scope of this report commenced in February and March 2011 by Archives & Architecture, LLC (Franklin Maggi, Sarah Winder, Jessica Kusz, and Leslie Dill). Notes on the architecture, characteristic features of the buildings and structures, and the area context were made. Photographs of the exteriors of the buildings and structures, and views of the related setting were taken. Unlabeled photographs within this report and appendices were taken digitally by Franklin Maggi and Sarah Winder during the visits.

Technical descriptions within this report were written based on the site visits. Archival research was conducted by Sarah Winder and Jessica Kusz, and included visits to major repositories of local historical source material. These repositories included the California Room at the Martin Luther King Jr. Joint Library, San Jose, the Santa Clara County Recorder's and Surveyor's Offices, the Santa Clara County Archives, the Los Gatos Planning and Building Department, and the Los Gatos Public Library, and the Sacred Heart Novitiate, Los Gatos.

This report was prepared utilizing the methodology recommended by the National Park Service, as outlined in Preservation Briefs #17 - *Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving Their Character* (1988), #35 - *Understanding Old Buildings: The Process of Architectural Investigation* (1994), and #36 – *Protecting Cultural Landscapes: Planning, Treatment and Management of Historic Landscapes* (1994). Additionally, site recordings were prepared within DPR523 series forms according to the *Instructions for Recording Historical Resources* (Office of Historic Preservation, 1995).

1.5 PREVIOUS SURVEYS AND HISTORICAL STATUS

Neither the subject property nor any of the individual extant buildings within the project site are listed in the California State Historic Property Data File. The project site and its buildings and structures are not listed on any county, state, or national register of historic resources, nor was the site identified and recorded in any prior surveys by the Town of Los Gatos.

1.6 SUMMARY OF FINDINGS

The property was evaluated for significance under state criteria for identification and designation of historic resources. While many of the buildings that exist today on the project site are over 50 years in age, it is our professional opinion that none are significant historic resources that would be eligible for listing on the California Register of Historical Resources.

Within the site are features that relate and/or potentially relate to earlier use of the property when it was known as "Far Hills," the summer home of architect Henry Clay Smith. These features, along the south and western parts of the site are remaining buildings, structures, and site elements that once contributed to a man-made landscape that was designed by Smith during the first half of the twentieth century. Henry Clay Smith was recognized as a distinguished architect in San Francisco early in the twentieth century within trade publications, and had a long and prolific career. His summer home in Los Gatos represented

his personal passion for landscape design that grew out of the California Arts and Crafts Movement. The extant Stone House and some rock features in the southern and western portions of the site exist today as originally designed and constructed by Smith. Other features associated with Smith, such as the garage, now known as the Cortona Building, the tennis court, and the base of the water tank, also exist today, although these other features have lost their relevant historic context and setting. All of the features associated with the Smith design and occupancy are ancillary to Smith's main house which no longer exists. The Stone House and some of the related man-made setting at the western portion of the property constitute a landscape that has some significance, but due to the loss of the original house and development of the property at mid-twentieth century and later, the site as a whole lacks integrity to the early estate, and would not appear to be eligible as a historic resource under CEQA.

For detailed information regarding eligibility requirements of the California Register of Historical Resources and how it relates to CEQA, and the Town of Los Gatos Historic Preservation Ordinance, see **Section 4.0.**

2.0 HISTORICAL INFORMATION

2.1 Historical Overview and Context

The settlement of the Santa Clara Valley by non-indigenous people within what is now known as Santa Clara County began in 1769 when the area was visited by Spanish explorers of the Portolá Expedition. In 1776 and 1777, *Mission Santa Clara de Asís* and the *Pueblo de San José de Guadalupe* were established along the banks of the Guadalupe River. The mission was established to convert the aboriginal population to Christianity. The primary function of the San José pueblo was to supplement the crops grown by the missions to support the military garrisons at Monterey and San Francisco. The Spanish Crown retained ownership of the land; settlers could not sell their land or divide it.

Mexican independence from Spain in 1821 and the establishment of an independent Mexican government led to the secularization of the missions. New land utilization and ownership patterns began to evolve locally during the 1820s and 1830s. In 1824, Mexico passed a law for the settlement of vacant lands in an effort to stimulate further colonization in the province of Alta California. Individuals could petition the governor for a specific tract, and the grantee was responsible for building a house and using the property for agricultural production.

By 1845, the era of Spanish and Mexican influence was coming to an end in the region. The 1840s were a significant period in California's history and a point of transition for the Santa Clara Valley into its modern form. In 1848 following the Mexican-American War, the United States acquired the Mexican Alta California in the Treaty of Guadalupe Hidalgo. The American frontier period in California formally began in 1848, and came to a close with the completion of the transcontinental railroad in 1869. During this time period, Mexican ranch owners were engaged in a long drawn-out process of obtaining patents for their properties from the United States Land Commission.

In 1839, José Hernandez and Sebastian Peralta applied for the patent to the rancho called *Rinconada de los Gatos* that had been granted to them by the Mexican governor in 1840.This rancho encompassed the land that is the subject of this study. Sebastian Peralta had been a *mayordomo* (mayor) of Mission Santa Clara and José Hernandez was married to the sister of Sebastian Peralta's wife. The rancho extended southerly beyond Los Gatos Creek. From the base of the foothills it extended into the Santa Clara Valley near present-day Campbell. In January 1853, Peralta and Hernandez petitioned the Land Commission to recognize their claim for 6,631 acres, which was patented to them on April 4, 1860. In the early-1850s however, the owners had already begun to divide the rancho, prior to issuance of the patent. By 1855, Hernandez had sold his portion of the rancho to James Alexander Forbes.

The portion of *Rinconada de los Gatos* purchased by James Alexander Forbes became the nucleus of what is now the Town of Los Gatos. By 1855, Forbes had built a flour mill along the Los Gatos Creek. A small village grew up around Forbes Mill just below the knoll of the subject property; lumbering was by far the more predominant early industry in the area, and the towns of Saratoga and Lexington were the business centers for this activity. As lumbering sites moved westward up the mountain range toward Santa Cruz in search of new stands of timber, Lexington decreased in influence and Los Gatos grew in size to accommodate near settlers. The evolution of the valley's horticultural industries in the early 1880s spurred additional growth, and in 1887, Los Gatos incorporated as a town.

2.1.1 James Alexander Forbes and Forbes Mill

James Alexander Forbes was born in Scotland in 1805, immigrated to Argentina in 1817, and then came to Alta California in 1831. Eventually settling near Mission Santa Clara, Forbes married Ana Maria Galindo, the daughter of the *mayordomo* of the mission Nicolas Galindo, and his wife Maria Teresa Pinto. He lived on the family's rancho, *Potrero de Santa Clara*. Forbes held a myriad of jobs, working for the

Hudson Bay Company, and helped establish a Jesuit college. Forbes had his hands in many dealings in the area and his aspirations to build a flour mill after the United States took control of the territory became the catalyst for the beginnings of the town of Los Gatos. An enterprising businessman in the years of transition from Mexican to American rule, Forbes saw opportunity in the lack of local flour mills in the area. With an existing population base in Santa Clara Valley, and open range land for establishing grain farming, Forbes exploited the opportunity to acquire land at the base of Los Gatos canyon as the site to build his flour mill. He purchased a large portion of the *Rinconada de los Gatos* from claimant Jose Hernandez in May of 1850 (Santa Clara County Deeds, Book H: 545-47). Along the banks of the Los Gatos Creek, then known as Jones Creek, Forbes established his flour mill at the site of what is now known as Forbes Mill Museum. The flour product was called Santa Rosa Brand Flour. A small village called Forbestown sprang up around the mill site.

Under Forbes' ownership the mill was unsuccessful, partially due to technical problems related to the weight of the equipment and inadequate power to operate it, but also probably due to the recession that hit the region in the post-Gold Rush era during California's first decade as a state. Forbes filed for bankruptcy, and in 1857 the property was sold at public auction to Gustave Touchard, who had helped finance Forbes during his startup. In the next three years Touchard sold off portions of the property in three separate transactions, and the mill remained closed. Over the next decade the mill changed ownership a number of times as attempts were made to improve the viability of the operation. The last owner during this period, Onesime Chauvin, sold the mill and related property to William H. Rogers in 1866.

2.1.2 William H. Rogers

By the time that Rogers bought the mill the local lumbering industry had begun to move up the eastern slopes of the mountain. By the late 1860s, the renamed town of Los Gatos was springing up to the south of Forbes Mill and east of Los Gatos Creek along Main Street. By 1868, Los Gatos consisted of the Mill, a blacksmith shop, a stage depot, a lumber yard, a temporary school house, a hotel with post office, and a few houses.

The large 1866 land purchase by Rogers included the subject property. His house was not on the subject property, but located below near Los Gatos Creek. William H. Rogers was born in New York and worked in the Detroit City Flour Mill before moving to California in 1853 with his wife Louisa, also born in New York. Near Placerville, Rogers constructed the Mountain Flourmill and operated it until 1860. In 1870, both William and Louisa Rogers and their two sons, William and Oscar, were living in Los Gatos.

When Rogers acquired Forbes Mill, he once again tackled the issue of water power for the mill by constructing yet another reservoir three miles above the mill and installing two new turbines to replace the 20-foot waterwheels. The head was raised to 65 feet, and a new or extended flume was also constructed. This 1866 flume extended the flume that ran along the edge of the creek.

2.1.3 Los Gatos Manufacturing Company, Tisdale Reservoir, and the Flume

By 1869, Rogers had brought other associates into his firm, selling an interest to J. Y. McMillan and W. S. McMurtry. The name of the company was changed to the Los Gatos Manufacturing Company. Additional property was acquired further upstream and another dam built, seven miles from the mill. During this time, water rights on the Los Gatos Creek above the town were purchased by the San Jose Water Company.

Water has always been a valuable commodity in Santa Clara County, and the town of Los Gatos itself (when it was originally founded as the Forbes Mill in the 1850s) was established in the area because of its immediate proximity to the Los Gatos (then Jones) Creek. In 1866, the San Jose Water Company was

founded and began purchasing the rights to the Los Gatos Creek in an attempt to establish control of the water supply generated by the Creek.

In 1871, the San Jose Water Company constructed a wooden flume to transport water from high above Los Gatos in the hills of Cat's Canyon, down to Los Gatos. This wooden flume was three miles long. In 1871, the Los Gatos Manufacturing Company, in conjunction with the San Jose Water Company, built the Tisdale Reservoir above the Town (to the east across Prospect Avenue from the subject property), and a new flume was built that wrapped around the hill above College Avenue (the subject property), extending to a dam above the town of Alma. It is not known if any related structures were constructed in conjunction with the Tisdale Reservoir.

Eventually the flume was reconstructed using steel tubes rather than wood-boxed chases. Much of the flume remained extant until the 1980s when removed by the San Jose Water Company. A remaining structural fragment of this 1870s flume remains extant adjacent to the south side of College Avenue near its upper terminus near the subject property.

The flour mill under the direction of William Rogers proved highly successful and the mill eventually produced 200 barrels of flour a day under ownership of Los Gatos Manufacturing Company. The flour had a reputation for its fine grade, and was exported throughout the United States and beyond, known as Los Gatos Water Mill Flour. The Los Gatos Manufacturing Company operated the floor mill until 1887 when the building was purchased by the Los Gatos Ice and Power Company and the Los Gatos Gas Company.

2.2 Property History

William H. Rogers purchased a large parcel of land within the *Rancho Rinconada de los Gatos* circa 1866. The subject property of this evaluation was located within this larger land parcel. The Thompson &West Atlas of Santa Clara County of 1876 depicts this land parcel as belonging to Rogers, adjacent of both his business partners' land parcels, McMurtry (20 acres) and McMillan (60 acres). No acreage for Rogers land is given on this map.

Another map prepared by Surveyor Irving Ryder in the mid-1870s, which depicts the subject property in detail, as well as the reservoir, flume, and land holdings of McMillan and McMurtry. The total acreage of the Rogers lands is 45 acres.

Figure 4 Irving Ryder Survey Map, *ca*. 1873.

In 1881, Rogers sold a portion of his land (including the subject site) to C. F. Wilcox (SCC Deeds 61:442) dated from November of that year. Charles F. Wilcox, brother of Harvey Wilcox (the namesake of Wilcox Avenue) was a prominent attorney in Santa Clara County, as well as an orchardist. He was also a

member of the "Solid Six", a group of prominent businessmen who wielded influence over Los Gatos town policies in the 1880s and 1890s.[1]

Wilcox owned this land tract briefly in the early 1880s, a fact which is documented by Surveyor H.A. Brainard's map dated ca. 1885 (**Figure 5**). Details of the map include: the Tisdale Reservoir, the flume, and Wilcox's 27 ¼ acre holdings of which would later constitute the Kimble Subdivisions (1 and 2). The subject property is located within this tract. A structure was marked by Brainard in Wilcox's land to the west of the Tisdale Reservoir, predating the Kimble Subdivisions.

Figure 5 "Los Gatos and Vicinity" Brainard map, *ca*. 1885.

Harvey Wilcox owned the 39 acres of land directly to the south of his brother's, which he sold to the Jesuit Society of Jesus in 1886. The Wilcox ranch at this time included a house, a small 4-acre vineyard, and an orchard of 1,200 orange trees. The Jesuits bought it with the intention of establishing a novitiate training center and winery, and initially only grew grapes with the goal of producing sacramental wine. By 1892, they had entered into the table wine industry that was flourishing across Santa Clara County. Their building program lasted from 1914 to 1926, and included expansion of their land holdings around the initial site to serve as vineyards. By the 1980s, the Jesuits (who had renamed the site the Sacred Heart Jesuit Center in 1973) still owned 83 acres of land and the winery, but had sold much of the land to the Mid-Peninsula Open Space District to serve as a land preserve in the foothills. The winery remained one of the oldest operating wineries in California until the Jesuits closed it in 1986. It was reopened soon after, first as the Mirassou Champagne Cellar, and then in 1997 it became the Testarossa Winery, as it is operated today.[2]

Charles Wilcox sold his land to J. C. Kimble in 1888 (SCC Deeds 88:49), who subsequently divided the land into two subdivisions (Kimble Subdivisions 1 and 2), which were marketed to the public beginning in 1890 in half-acre to two-acre lots: "This charming suburb of San Jose is the most beautifully situated location of the magnificent Santa Clara Valley. The Kimble Tract, containing over thirty acres, is the cream of the residence property of Los Gatos, and is only a five minute walk from the railroad depot."[3]

The subject property is located on almost the entire parcel of Subdivision 2 (**Figure 6**), and at one time did comprise all of Subdivision 2 before a portion of the original holdings of the Sisters of the Holy Names was sold off. The Kimble Tract, Subdivisions 1 and 2, is included on a survey map dated July 21, 1890 (SCC Maps E: 33). This map is used as lot number, location, and boundary reference for all Deeds

[1] Peggy Conway, *Los Gatos Generation* (San Francisco: Arcadia, 2007).
[2] Richard Beal, *Highway 17: The Road to Santa Cruz* (Aptos: The Pacific Group, 1991).
[3] *Evening News*, "Advertisement", May 26, 1890.

and Official Records from 1890 onward. The two subdivisions are not directly adjacent to each other, but are separated by an unrelated parcel of land.

Figure 6 Kimble Tract Subdivisions Map (SCC Map Book E: 33), recorded July 21, 1890.

James C. Kimble, a lumber dealer and resident at the time of Oakland, purchased this land, along with land in Santa Cruz County, and other properties throughout California. Despite the marketing of the subdivisions in the local newspapers, and the desirability of Los Gatos for potential buyers, many of the lots went unsold for years. The lots located in Subdivision 1 were sold to buyers in greater numbers beginning in 1891, while Subdivision 2 (including the subject property) remained unsold until 1893. For a time in 1892, Kimble considered donating five acres of Subdivision 2 to the building of new sanitarium or a convent in Los Gatos, although no deal was ever reached and the tract remained on the market as single-family lots.[4] The first lots of the new subdivision were purchased in July of 1893.

A San Jose Water Company Map from 1911 (**Figure 7**) of the Kimble Tract Subdivision 2 shows that most of the subdivision still appeared empty. The only lot owned by anyone other than J. C. Kimble in the parcel was the most easterly lot of the subdivision, Lot 1, which appears to be owned by a J. J. Sullivan. In April of 1896, Kimble had sold the lot at the top of Subdivision 2 to a Jennie K. Sullivan (SCC Deeds 190:74).

Figure 7 San Jose Water Company Map No. 11, dated April, 1911.

James C. Kimble died June 30, 1899. His land holdings (including the unsold lots of the Kimble Tract) were transferred to the Kimble Estate, rather than to his wife Eliza. The lots remained the property of the Kimble Estate for a number of years. In a deed dated from December of 1900, from J. C. Kimble to the Kimble Estate (SCC Deeds 238:220), Lots 4-26 were included in the transfer of Mr. Kimble's holdings to the Kimble Estate. Lot 2 and Lot 3 appear to have remained vacant as far as

[4] *Evening News*, "New Sanitarium Project", March 17, 1892. *Evening News*, "The New Sanitarium", March 22, 1892.

public records show, until it was purchased in about 1923. This part of the property is now known as the Villa property, and is not a part of the current project limits. The easterly parts of the larger property remained under private ownership until 1945, when they were sold to the Sisters of the Holy Names of Jesus and Mary. The purchase of Lots 2 and 3 and the northeasterly portions of Lots 4 and 5, along with the purchase of Lot 1 formed the initial parcel of land upon which the order of the Sisters of Holy Names would establish their Los Gatos convent.

Lots 8 through 26 of Subdivision 2 were still unsold in 1911 according to the San Jose Water Company Map (Figure 2.4), although it has been determined through research that a Henry C. Smith and his wife, Lillian T. Smith, purchased these lots sometime between 1909 and 1911. Henry Clay Smith, a prominent San Francisco-based architect of the first half of the twentieth century, bought the entire remaining lots of the Kimble Tract Subdivision 2 as a summer retreat for him and his family, a parcel which, according to a newspaper article, covered more than 20 acres.[5]

Henry C. Smith was a native of Santa Clara County, born and raised in nearby Evergreen (a community on the outskirts of San Jose). His father Charles was the co-founder of the community. Henry returned to the Bay Area after spending eight years in Pennsylvania, studying architecture at the University of Pennsylvania, and being mentored by James H. Windrim (of the firm James H. Windrim & Son). He returned to San Francisco, and eventually became known as the "Hillside Architect" for his ability to nestle homes into the hilly terrain of San Francisco. Smith and his wife Lillian purchased the property in Los Gatos they named "Far Hills" both for their family, and to allow Henry to indulge his imagination and to develop his abilities as both an architect, and as a landscape architect, as referenced in *Architect and Engineer of California* articles about Smith.

Smith constructed buildings, structures, and some stone walls on the western edge of the property during his ownership, some of which are still extant today. It is not known exactly when construction occurred on the site, although with the aid of newspaper articles and other publications construction dates have been narrowed down significantly. Smith also cultivated a vineyard on the property, which can be seen in the image below, a postcard of the Sacred Heart Novitiate from above which has also captured a view of the subject property sometime in the 1910s, when Smith owned a portion of the subject property.

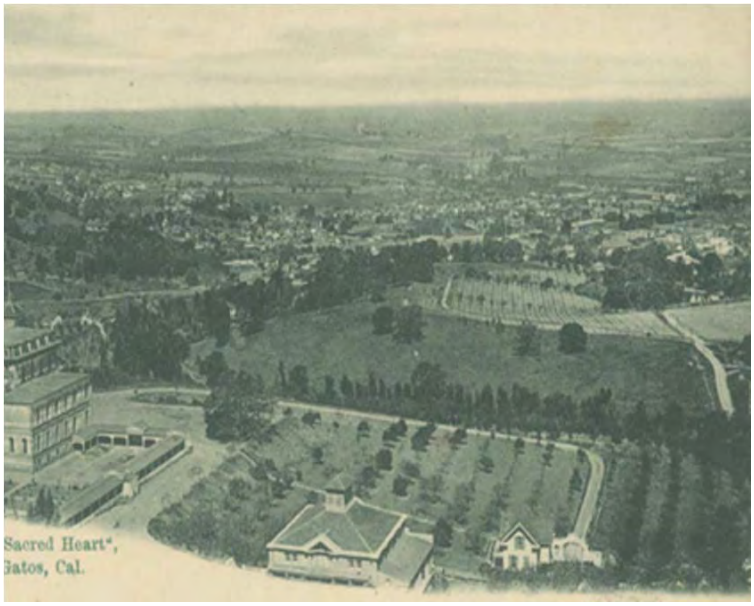

Figure 8 Postcard of the Sacred Heart Novitiate, *ca*. 1910s (Smith vineyard in distance).

An article in the *San Jose Mercury News* dated November 22, 1914 states that two workers on the property were killed in an early morning explosion that, "resulted in the complete destruction of the garage. Neighbors however, managed to prevent the flames from spreading to the cottage".[6] So it can be assumed that at least two structures were extant on the property prior to this event, built sometime between the purchase of the property (between 1909 and 1911) and 1914.

[5] *Evening News*, "Society", June 18, 1918.
[6] *San Jose Mercury News*, "Die of Burns Received in Fire at Los Gatos", November 22, 1914.

Further research yielded articles published in *The Architect and Engineer of California*, with photos of Smith's Los Gatos property in 1912 and in 1916.

Figure 9 "Far Hills" main house, published in *The Architect and Engineer of California*, 1912. The large tree appears to exist today at the entry to the Seraphine building.

The structure seen in **Figure 9** depicting the main house of the Smiths is no longer extant, although the outdoor kitchen and fireplace seen in **Figure 10** appears similar to the stone structure that still exists in the southern corner of the site. The stone house located on the property near the outdoor kitchen was not found in any photographs, nor was an exact build date for the structure determined, however it can be assumed that this structure's location on the former Smith property, and characteristics (the placement in the side of the hill for example and use of stone) can be attributed to Henry C. Smith's architectural style, and the build date similar to the other structures known to have existed on his property. Smith is associated with other sites in the western foothills of Santa Clara Valley as well as in San Jose, but most of his architectural work was in San Francisco.

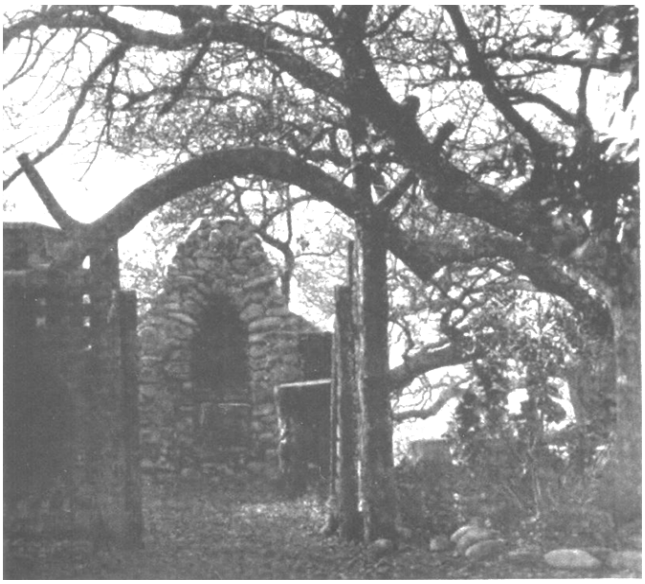

Figure 10 "Far Hills" fireplace and kitchen, published in *The Architect and Engineer of California*, 1916.

A deed dated from January of 1920 (SCC Deeds 509:297) states that Henry C. Smith and Lillian T. Smith sold all of Lots 8, 9, 10, and portions of Lots 11, 25, and 26 to Emma C. Pasquale. The Smiths retained possession of all of Lots 12 through 24, and the majority portions of Lots 11, 25, and 26 until 1945. In May of 1945 (SCC OR 1261:231), Henry C. Smith sold Lots 11-25 to brothers, Louis F. and Emilio Chiodo. The Chiodo brothers, along with their wives, were residents of Oakland. They purchased the land in 1945, however, they had defaulted on the mortgage of the land by 1947, and sold the entirety of their parcel (all of Lots 12-24, and parts of Lots 11 and 25) to Sisters of the Holy Names in July of 1950 (SCC OR 2010:169). It is not known for certain what, if any, changes were made to the existing buildings and structures on the site by the Chiodos or during the early redevelopment of the site in the 1950s.

Emma C. and Edward V. Pasquale are known to have resided at least part of the time on the property from its purchase in 1920 until the early 1940s. They are listed as residents of San Francisco on the 1910, 1920, and 1930 Census, but Los Gatos Voter Registrations for 1932, 1936, 1938, 1940, and 1942 place Edward Valentine Pasquale on Kimball (sic) Avenue, although an exact street number is never given. Emma died in 1940, and Edward died in 1943. The property was sold to Louis C. and Tecla Helen Smith (no relation to Henry C.) in the early 1940s.

Tecla Smith is listed as a resident of Oakland on the 1920 Census under her maiden name of Reinking, where she was employed as a telephone operator, and before this she can be found on the 1900 and 1910 Census in Indiana, where she spent her childhood. Oakland Voter Registration also places Mrs. Smith and her husband as residents of the city from 1930 to 1944. The Smiths retained the rights to all of Lots 8, 9, 10, and 26, and portions of Lots 11 and 25 until January of 1950, when they sold this middle parcel of the subject property to Sisters of the Holy Names (SCC OR 1913:276, 278).

2.2.1 Sisters of the Holy Names

The Catholic order of Sisters of the Holy Names was established on December 8, 1844 in Longueuil, Quebec, Canada as a religious congregation with the primary goal of Christian education of the poor (particularly girls). The order was named Sisters of the Holy Names of Jesus and Mary, and quickly expanded within Canada and to the United States. Within six years, the order had grown from three sisters to thirty, teaching 383 students in four schools in the area. Sisters of the Holy Names of Jesus and Mary had nine provinces of administration in both the United States and Canada by the year 1910, with four provinces in Quebec (which oversaw congregations and schools in Ontario, Detroit, and Chicago), one in Manitoba, and one each in the states of New York (which included Florida), and the Pacific coast state of Washington.[7]

In 1868, a request was made to the order by San Francisco Archbishop Alemany for Sisters to establish an order in the San Francisco Bay Area. Six Sisters arrived in Oakland, and established their first convent and school on the shores of Lake Merritt. Several schools were established over the ensuing decades, and in 1908 a college was established at the Lake Merritt site. In 1926, the four-year school Holy Names College opened its doors to both lay-women and members of the religious order. In 1931, Holy Names High School was established in Oakland as the preparatory secondary school for the College, utilizing the buildings originally created for the Convent of Our Lady of the Sacred Heart. A temporary convent for the Sisters was located on Seventeenth Avenue in San Francisco, across the street from Saint Cecilia Church from 1931 to 1942. Henry Minton, whose firm designed the Los Gatos site, built the Sisters a new convent on Eighteenth Street in 1941, prior to the work of his firm at the Los Gatos location. In the 1950s, the present-day location of the College was built on Mountain Boulevard in the Oakland Hills, the College having long-outgrown the Lake Merritt location.

The order of Sisters of the Holy Names (under the umbrella of the Archdiocese of San Francisco) currently staff and administer Holy Names High School (a private girls school), Holy Names University (formerly Holy Names College), Next Step Learning Center, and various parishes in Oakland before they spend their retirement at the Convent of the Holy Names in Los Gatos.

According to a Deed from 1974, control of the subject property was transferred from “Holy Names College, a California non-profit corporation, formerly known as College of the Holy Names, a non-profit corporation” to “Sisters of the Holy Names of Jesus and Mary, a California non-profit corporation, formerly known as Sisters of the Sacred Names of Jesus and Mary” (SCC OR A896: 246). The subject property at this point did not change in any way, except in name.

[7] www.newadvent.org/cathen/10678a.htm (accessed on February 9, 2011).

Based upon information found in a document created by the Sisters themselves, their tenure on the property reads as follows:

The Villa property (the main house and surrounding buildings) was purchased in 1945 from the Menuhin family. This initial purchase was made with the intention of creating a retreat for the rest and recuperation of the Sisters, and in 1948 the Marie Rose Residence located at the northernmost part of the subject property was constructed under the authority of architect Charles S. Butner. Between 1950 and 1957, further purchases of surrounding parcels led to a total of over 17 acres of land belonging to the Sisters. In 1950, the construction of the Convent (the Marian building) and the Novitiate (the Siena building) was begun under architects Wilton Smith and John G. Minton.

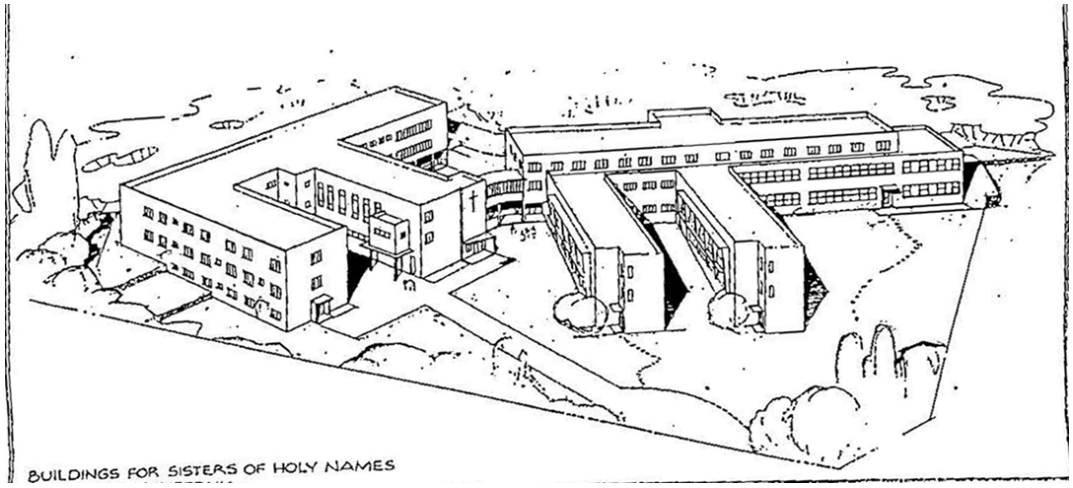

Figure 11 Artistic rendering of Marian and Siena Buildings.

Upon completion of the buildings in 1952, the California Province administration, novitiate, and care center previously located in Oakland was moved to the Los Gatos site. In the late 1960s, a lack of new novitiates led to the closure of the Novitiate, and the extension of the care center. In 1969, a dormitory on the property was reconstructed to accommodate the addition of a Montessori school, as well as 30 private rooms in three dormitories. In 1971 the main Chapel was redone, and various portions of land were sold off in the 1970s, the total acreage of the property owned by the Sisters today is about 10.3 acres. In 1980, the construction of the Provincial Administration Building and the additions to the Seraphine building were completed by the architectural firm Norton S. Curtis. Between 2000 and 2001, the Chapel was again remodeled, and then in 2003 the Care Center located in the Marian building was also updated.

Today, the Convent of the Holy Names in Los Gatos is home to some 66 retired members of the Province. It also remains the site for the administration functions.

2.2.2 Architects

Due to the nature of the subject property as a subdivision of single-family homes prior to its ownership by the Sisters of the Holy Names, as well as the lack of cohesion of building projects after their purchase(es), multiple architects are linked to the site. These architects represent different building styles, time periods, and significance.

Wilton Smith and John G. Minton are the architects of the building of the Marian and Siena Residences, constructed 1950-1952. Wilton Smith was born in 1903, and received his degree in architecture from the University of California. He received his license to practice as an architect in California in 1938, at which time he began collaborating with and established a partnership with Henry A. Minton (John Minton father). The San Francisco firm of Minton & Smith continued after Henry Minton passed away in 1948, with John assuming his father's place within the firm.

Henry A. Minton's main body of work was done during the 1920s and 1930s. Two of the more significant clients of Minton's were A. P. Gianini for whom he designed the Bank Of Italy building still extant in downtown San Jose, and projects throughout the Bay Area for the San Francisco Archdiocese. John was born in 1916, and later joined his father's practice after completing his degree at the University of California. The firm of Minton & Smith continued the prolific career of Henry Minton during the second half of the twentieth century following Henry's death in 1948, and was the source for many religious structures throughout the region as they maintained Henry Minton's client base.

Henry C. Smith was a native of Santa Clara County, born and raised in nearby Evergreen (a community on the outskirts of San Jose). His father Charles was the co-founder of the community. Henry returned to the Bay Area after spending eight years in Pennsylvania, studying architecture at the University of Pennsylvania, and being mentored by James H. Windrim (of the firm James H. Windrim & Son). He returned to San Francisco, and eventually became known as the "hillside architect" for his ability to nestle homes into the hilly terrain of San Francisco.

Smith was a prolific and influential architect in the San Francisco Bay Area, as well as throughout California. He was awarded the prize for his schoolhouse designs at the 1915 Panama-Pacific Exposition, which led him to design over 125 schools and public buildings throughout California. Many of private residential homes can still be viewed in San Francisco's wealthier neighborhoods of Pacific Heights, Russian Hill, Nob Hill, and Presidio Heights. He was an early proponent of Mission Revival architecture in California and early Arts and Crafts architecture, and had a diverse and eclectic capacity to work in both classical styles as well as in the many revival styles popular in the 1920s and 1930s. Locally he designed prominent houses for clients in San Jose and Saratoga, and was the architect of Paul Masson's Saratoga Lodge.

Norton S. ("Bud") Curtis was the son of architect Ernest N. Curtis and his wife Lottie. He was born in San José in 1921. Bud Curtis closed the firm of Binder & Curtis and formed the firm Norton S. Curtis & Associates in the early 1960s. In San Jose, he was commissioned were the initial feasibility study for the Civic Auditorium expansion (1960), and the San José Police Administration Building and Police Garage expansion. In Santa Clara he designed a number of fire stations and other government buildings. Educational work include a large number of buildings on the campus of the University of Santa Clara from 1962-1972, including Benson Memorial Center Student Union (1963), the 11-story Swig Residence Hall (1966), Graham and Campisi Residence Halls, and Bandan Hall. Religious buildings include St. Victor's Worship Center, Holy Family Multi-use Building, St. Julie's Church, Church of the Holy Spirit Worship Center, Parish Hall, and Rectory, Notre Dame Convent (all in San José), and Santa Clara Catholic Cemetery mausoleum.

3.0 PROPERTY INFORMATION

The following property information section provides physical information about the property. Detailed descriptions and photographs are provided in the Appendix within DPR523 series forms. These forms consist of Primary Records (DPR523A) and related Continuation Sheets (DPR523L). Photographs that define the primary character-defining features of the site are included within these forms.

The property that is known as the Sister of the Holy Names of Jesus and Mary– Los Gatos site encompasses many acres of buildings and grounds that represent a continuum of underlying and added design layers from the late nineteenth to the mid and late-twentieth centuries. A few scattered elements and additions date from the late twentieth century, as well. Although the campus has evolved over time, with rehabilitated former estate properties interspersed with modern institutional buildings, the open lands, naturalistic plantings, topography, and some stone landscaping features connect the property into a coordinated modern campus. Some of the pre-World War II buildings and landscaping features continue to characterize associations with the past. These associations include architect Henry Clay Smith who was a regionally prominent architect during the first half of the twentieth century.

The Sisters of the Holy Names site is located at the edge of the greater Santa Clara Valley in the foothills of the Santa Cruz Mountains, within an established older neighborhood in the Town of Los Gatos. The campus includes the 10.3-acre subject parcel to the west side of Prospect Avenue at the top of a knoll. This parcel consists of landscape, 85,000 square feet of building area, parking and driveways; most of the open space remains as wooded hillsides. The landscaping and features of the early-twentieth-century estate called Far Hills is evident along the western edge of the property. The main gates at the southeastern corner of the property are stone pedestals that appear to relate to the stone walls, stone House, and other landscaping features that predominate in the southwestern edge of the property. The walls continue north, and a tennis court is located at the far northwestern corner of this portion of the property. The main concentration of features remaining from Far Hills' lies in the southwestern corner of the site. Just north of the entrance walls, occupying the eastern third of the parcel, are the two convent buildings, the Marian and Siena Residences. The third grouping of buildings on this parcel consists of the Regional Office and Seraphine buildings located at the site of the earlier county residence of the Henry Clay Smith family which is no longer extant. The courtyard formed by this pair of interlocking buildings is set at the level top of the main hill of the campus.

3.1 Property Configuration and Setting

The Marian and Siena Residences (or convent site) is described first in the attached DP523 series forms. These buildings were constructed at the site of a vineyard associated with the Henry Clay Smith ownership of the site known as Far Hills. The vineyard was a part of Smith's landscape design, and was set within the loop of Kimble Avenue where it intersects with Prospect Avenue. The convent includes some rock features at the western edge of the property that are visually linked to the Far Hills site, but constructed during the latter part of the twentieth century as a part of the related landscape design of the convent. The investigation undertaken as a part of the preparation of this report did not attempt to determine for certain what features are specifically associated with the convent, and which are related to the earlier Far Hills estate. The two periods have been integrated over time. Most of the mature landscaping at the center of the site is associated with the convent use of the land, and was installed during the latter part of the twentieth century. The only feature in this central area associated with Far Hills is the main driveway entry at Prospect across from the terminus of Kimble Avenue, and the driveway configuration, which was once the extension of Kimble Avenue through the site.

The remnants of the Far Hills estate are described in the second set of forms. Landscape features and structures of this site today include rock walls at the western edge of the property, the patio deck area, the Stone House, the Cortona building, the base of an early tank house, and tennis court, and are located

along the edge of the property on the south and west. These features constitute the site that initially developed circa 1910. Missing from this area is the original Smith house, although the large Oak tree at the entry of the Regional Office and Seraphine building appears to be the same tree that existed at the front of the Smith house when a photograph was taken in 1912 (see **Figure 9**).

The third set of forms describe the Regional Office and Seraphine building, contemporary structures with portions of an embedded building lying within the Seraphine building.

4.0 EVALUATION FOR SIGNIFICANCE

4.1 Regulatory and Policy Background

This portion of the report constitutes an historical and architectural evaluation of the property that is the subject of this report. More specifically, two sets of guidelines were used; the California State Historic Resources Commission's requirements for listing on the California Register of Historical Resources, and the Town of Los Gatos' General Plan Polices and Historic Preservation Ordinance and demolition regulations.

Under California law (AB133), any "religiously-affiliated" organization owning "non-commercial" historic property may be exempted from local landmarks laws, regardless of the purposes for which the property is used. This state law includes residential and other properties owned by religious institutions. In order to invoke exemption under AB133, the religiously affiliated organization must formally object to the application of the law, and determine in a public forum that application of the law will result in a substantial hardship, that is likely to deny the organization either an economic return on its property, the "reasonable use" of its property, or the appropriate use of its property in the furtherance of its religious mission.

4.2 Town of Los Gatos General Plan Policies

The Town of Los Gatos adopted the current 2020 General Plan in 2011. The General Plan contains Goals and Policies and Actions to "preserve, promote, and protect the existing small town quality of life within Los Gatos" (Goal: LU-1). Policies CD-12.3 and CD-12.4 speak to the preservation of historic resources:

> CD-12.3 Preserve and protect historic structures including those that have been designated or are contributors in existing historic districts. Use special care in reviewing new buildings or remodels in the vicinity to address compatibility issues and potential impacts.
>
> CD-12.4 Continue the Town's careful and proactive historic preservation programs, tempered with compassion and understanding of the property owners' needs, desires and financial capabilities.

The Town of Los Gatos Community Design Element contains goals, policies, and implementing strategies that also pertain to historic preservation:

2. Goals, Policies, and Actions

Goal:

> CD-12 To preserve significant historic and architectural features within the Town.

Policies:

> Policy CD-12.1 Avoid demolishing historic buildings, unless the Planning Commission finds, based on substantial evidence, that there is no feasible means to ensure the preservation of the structure.
>
> Policy CD-12.2 Encourage the preservation, maintenance, and adaptive reuse of existing residential, commercial, or public buildings.
>
> Policy CD-12.3 Preserve and protect historic structures, including those that have been designated or are contributors to existing historic districts. Use special care in reviewing new buildings or

remodels in the vicinity of historic structures to address compatibility issues and potential impacts.

Policy CD-12.4 Continue the Town's careful and proactive historic preservation programs, tempered with compassion and understanding of property owners' needs, desires, and financial capabilities.

Policy CD-12.5 Zone changes, planned development applications and zoning approvals that may result in the demolition of historic structures shall be referred to the Historic Preservation Committee for review and recommendation.

Policy CD-12.6 New structures within historic districts shall be designed to blend and harmonize with the neighborhood.

Policy CD-12.7 All projects shall consider any adverse effect to historic landmarks and features on or in the vicinity of the proposed project.

Policy CD-12.8 Require any development having potential adverse impacts on historical sites and/or features on or in the vicinity of historical sites:

a. Accommodate the historical structure or feature;
b. Mitigate potential adverse impacts to a level acceptable to the Town; or
c. Relocate the historical feature to an appropriate site.

Policy CD-12.9 Encourage developers to use historic structures or, if not feasible, encourage their donation to the Town.

Actions:

Action CD-12.1 Establish public information programs designed to make owners of historic structures and the general public aware of the value of historic buildings and to encourage their maintenance.

Action CD-12.2 Periodically review historic landmark and preservation legislation and update the Town Code as necessary.

Action CD-12.3 Conduct a study and amend the Town Code to require proposed developments that are otherwise exempt from historic review but that might have an impact on sites of designated or suspected historic significance to be referred to the Historic Preservation Committee for review and recommendation.

Goal:

CD-13 To support and encourage thoughtful rehabilitation or reuse of historic structures.

Policies:

Policy CD-13.1 Rehabilitation of damaged historic structures shall be consistent with the policies of the Safety Element and the State Historic Building Code.

Policy CD-13.2 Renovations or remodels of historic structures shall be architecturally consistent with the original structure.

Policy CD-13.3 Provide applicants and developers with information and staff time to assist in restoration projects.

Policy CD-13.4 Provide information about tax law benefits for rehabilitation of historic structures.

4.3 Town of Los Gatos Historic Preservation Ordinance

The purpose of historic preservation is to promote the health, safety and general welfare of the public through:

1. The protection, enhancement, perpetuation and use of structures, sites and areas that are reminders of past eras, events and persons important in local, State, or National history, or which provide significant examples of architectural styles of the past or are landmarks in the history of architecture, or which are unique and irreplaceable assets in the Town and is neighborhoods, or which provide for this and future generations examples of the physical surrounds in which past generations lived.
2. The development and maintenance of appropriate settings and environment for such structures.
3. The enhancement of property values, the stabilization of neighborhood and areas of the Town, the increase of economic and financial benefits to the Town and its inhabitants, and the promotion of tourist trade and interest.
4. The enrichment of human life in its education and cultural dimensions by serving aesthetic as well as material needs and fostering knowledge of the living heritage of the past.

4.4 Town of Los Gatos Demolition Regulations (Municipal Code Chapter 29 Section 29.10.09030)

Demolition of historic structures (located in a historic district or on a historic site and/or constructed before 1941) can only be approved under the Los Gatos Town Code if the structure poses an imminent safety hazard, or if the structure is determined not to have any special historical, architectural or aesthetic interest or value.

The Town of Los Gatos defines demolition of historic structures to mean:
(1)Removal of more than twenty-five (25) percent of the wall(s) facing a public street(s) (or a street facing elevation if the parcel is a corridor lot or is landlocked) or fifty (50) percent of all exterior walls; or
(2)Enclosure or alteration (ie: new window and or window relocation) of more than twenty-five (25) percent of the walls facing a public street (or a street facing elevation if the parcel is a corridor lot or is landlocked) or fifty (50) percent of the exterior walls so that they no longer function as exterior walls; or
All remaining exterior walls must be contiguous and must retain the existing exterior wall covering. No new exterior wall covering shall be permitted over the existing exterior wall covering.

The following are exempt from this definition:
a.*Replacement.* The exterior wall covering may be removed if the covering is not original to the structure.
b.*Repair*. The removal and replacement of in kind non-repairable exterior wall covering resulting in no change to its exterior appearance or historic character if approved by the deciding body.
c.*Removal*. The removal of an addition(s) that is not part of the original structure and which has no historic significance, as determined by the Historic Preservation Committee. Demolition shall be determined by subsections (1) and (2) above for the original structure, where walls enclosed by additions shall be considered as exterior walls.

Demolition of nonhistoric structures is defined to mean:
removal of more than fifty (50) percent of the exterior walls. The remaining exterior walls must be contiguous and must maintain either the existing interior or existing exterior wall covering. [8]

[8] Definitions taken from *Town of Los Gatos Municipal Code Section 29.10.010.-Reference.*

4.5 California Environmental Quality Act

The California Environmental Quality Act (CEQA) requires regulatory compliance in regard to projects involving historic resources throughout the state. Under CEQA, public agencies must consider the effects of their actions on historic resources — a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment (Public Resources Code, Section 21084.1). The CEQA Guidelines define a significant resource as any resource listed in or determined to be eligible for listing in the California Register of Historical Resources (CRHR) (see Public Resources Code, Section 21084.1 and CEQA Guidelines Section 15064.5 (a) and (b)).

The CRHR was created to identify resources deemed worthy of preservation and was modeled closely after the National Register of Historic Places (NRHP). The criteria are nearly identical to those of the NRHP, which includes resources of local, state, and region or national levels of significance. The CRHR automatically includes properties listed in the National Register, determined eligible for the National Register either by the Keeper of the National Register or through a consensus determination on a project review, State Historical Landmarks from number 770 onward, and California Points of Interest nominated from January 1998 onward. Properties are also listed by application and acceptance by the California Historical Resources Commission

Properties of local significance that have been designated under a local preservation ordinance (local landmarks register or landmark districts) or that have been identified in a local historical resources inventory may be eligible for listing in the CRHR and are presumed to be historical resources for the purposes of CEQA unless a preponderance of evidence indicates otherwise (Public Resources Code, Section 5024.1g; California Code of Regulations, Title 14, Section 4850). A resource that the agency determines to be historically significant may be considered to be an historical resource if the lead agency's determination is supported by substantial evidence. Generally, a resource is considered to be historically significant if it meets the criteria for listing in the California Register of Historical Resources (see CEQA Guidelines Section 15064.5(a)(3).

4.6 Criteria of the California Register of Historical Resources

The significance criteria for the California Register of Historical Resources are oriented to document the unique history of California. The California Register is a guide used by state and local agencies, private groups and citizens to identify historical resources throughout the state. The types of historical resources eligible for listing in the California Register include buildings, sites, structures, objects and historical districts. [California Code of Regulations Section 48542(a)]

Under California Code of Regulation Section 4852(b) and Public Resources Code Section 5024.1, an historical resource generally must be greater than 50 years old and must be significant at the local, state, or national level under one or more of the following four criteria:

1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States.
2. It is associated with the lives of persons important to local, California, or national history.
3. It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master or important creative individual, or possesses high artistic values.
4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

If nominated for listing in accordance with the procedures outlined in Public Resources Code Section 5024.1(f), the California Register may include:

> (1) Individual historical resources.
> (2) Historical resources contributing to the significance of an historic district under criteria adopted by the Commission.
> (3) Historical resources identified as significant in historical resources surveys, if the survey meets the criteria in Public Resources Code Section 5024.1(g).
> (4) Historical resources and historic districts designated or listed as city or county landmarks or historic properties or districts pursuant to any city or county ordinance, if the criteria for designation or listing under the ordinance have been determined by the State Historic Resources Officer to be consistent with California Register criteria adopted by the Commission.
> (5) Local landmarks or historic properties designated under any municipal or county ordinance.

4.6 Determining Significance under the California Environmental Quality Act

A project with an effect that may cause substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment under CEQA. An "Historical Resource" includes those listed in or determined to be eligible by the State Historical Resources Commission, a resource included in a local register that meets the requirements for listing in the California Register, and any object, building, structure, site, area, place, record, or manuscript which an agency such as the Town of Los Gatos determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, education, social, political, military, or cultural annals of California, provided that the determination is supported by substantial evidence in light of the whole record. Generally, the Town of Los Gatos is required to consider historical significance if a resource meets the criteria for listing on the California Register under the criteria previously stated. The fact that a resource is not listed in, or determined to be eligible for listing in, the California Register—or is not included in a local register or identified in an historical resources survey meeting the specified criteria—does not preclude an agency such as the Town of Los Gatos from determining that the resource may be an historical resource under CEQA.

4.7 Integrity

California Code of Regulations Section 4852(c) addresses the issue of "integrity" which is necessary for eligibility for the California Register. Integrity is defined as "the authenticity of an historical resource's physical identity evidenced by the survival of characteristics that existed during the resource's period of significance." Section 4852(c) provides that historical resources eligible for listing in the California Register must meet one of the criteria for significance defined by 4852(b)(1 through 4), and retain enough of their historic character of appearance to be recognizable as historical resources and to convey the reasons for their significance. Integrity is evaluated with regard to the retention of location, design, setting, materials, workmanship, feeling, and association. To retain historic integrity, a property must possess several, but not necessarily all of the seven aspects. The property must also be judged with reference to the particular criteria under which a resource is proposed for eligibility. Alterations over time to a resource or historic changes in its use may themselves have historical, cultural, or architectural significance. Determining which of these aspects are most important to a particular property is based on knowing why, where, and when the property is significant.

4.8 Evaluation for Significance

The Sisters of the Holy Names of Jesus and Mary extended care facility site is comprised of multiple buildings on a 10.3-acre parcel west of Prospect Avenue. Almost all of the buildings on the proposed project site are over fifty years in age, excepting the Regional Office and Seraphine buildings which were

built in the late 1970s. The underlying building within Seraphine is older, but is no longer recognizable as a historic building.

Henry Clay Smith was a significant regional architect during the first half of the twentieth century, and the establishment of his summer estate in Los Gatos during the early twentieth century, although now lost in time, is an important aspect of local history. Smith was a prolific designer. His architectural career was documented during the teens and twenties by an important regional architectural trade magazine and a published book. Some materials from his career are archived at the University of California, Berkeley, School of Environmental Design Library, although like many California architects, his work has yet to be assessed within the mainstream of American architecture. The buildings and landscape designs he created at Far Hills reflects his interest in the budding Arts and Crafts Movement, and his skills at designing hillside buildings, for which he became known in San Francisco as the "Hillside Architect." The landscape environment he designed appears to be reflective of what was occurring within the western foothills of Santa Clara Valley during the early twentieth century, when this area was a sought-after and preferred location for summer estate homes for some of San Francisco prominent citizens. The main house of this historic site is no longer extant however. Other later intrusions into the landscape setting has occurred due to the development of the three story convent, administrative building and other development, although there are features of the original site that exist that enable some recognition of the aesthetic he pursued. Features within the property such as the Stone House, some stone walls at the western edge of the property, some landscaping, and ancillary structures contribute to this setting, but the historic landscape does not have integrity to its original significant form due to loss of the original house and construction of the convent at the center of the site. The Smith house was the primary feature of this earlier man-made landscape, and the remaining features along the south and west portions of the property originally served to frame a large vineyard which was the focal point of Smith's landscape design.

The later developments by Sisters of the Holy Names are not significant in terms of criteria used to determine eligibility to historic registers. The design of the Marian and Siena Residences in the early 1950s is of architectural interest, as they are early examples of Modern Design during a period that saw a radical department from the eclectic styles that had dominated much of twentieth century architecture during the first half of the century. Locally, there were a number of architects who promoted the use of this style in the buildings they designed, including Ralph Wyckoff, Edward Kress, Donnell Jaekle, and Ernest Kump. The firm that designed these two residences, Minton & Smith, was prominent in San Francisco, and the design of these buildings was a departure from the earlier more classically designed buildings tied with Henry Minton, the founder of the firm. The convent is minimalist in execution, which provides the foundation for innovative design during this period, but lacks the attention to detail that defines other buildings within this genre that today are considered important historic works of mid-century Modern. Changes to the original buildings, including the replacement of windows and installation of hot water piping on the exteriors has reduced the integrity of the original design. The buildings as they exist today do not appear eligible for listing on the California Register of Historical Resources as they are not distinctive examples of Modern architecture during the post-World War II period.

The later Regional Office and Seraphine building are not 50 years in age or older. Under California Register criteria, to be considered historically significant, buildings should be at least 50 years in age. California Code of Regulations Section 4852(d)(2) addresses the issue of age as a "Special" consideration. A resource less than fifty years old may be considered for listing in the California Register if it can be demonstrated that sufficient time has passed to understand its historical significance. In order to understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individual associated with the resource. The buildings themselves, although architect-designed, are not distinctive architectural works, and lack important associations.

The property was evaluated for significance under local and state criteria for identification and designation of historic resources. While many of the buildings that exist today on the project site are over

50 years in age, the evaluation conducted as a part of this report found that none appear to be significant historic resources that would be eligible for listing on the California Register of Historical Resources.

4.10 Potential Impacts

Under the California Environmental Quality Act, a project that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired. The significance of an historical resource is materially impaired when a project demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in the California Register, or in a local register of historical resources as defined by Public Resources Code Section 5020.1(k), or its identification in an historical resources survey meeting the requirements of Public Resources Code Section 5024.1(g).

The Sisters of the Holy Names of Jesus and Mary project site does not appear eligible for the California Register of Historical Resources, and buildings and structures within the proposed project site have not been identified as historically significant in any qualifying survey of historic resources. The Town of Los Gatos has not designated the site as a Landmark, nor determined the site eligible for Landmark designation. Based on these findings, demolition of the buildings and structures would not appear to create an adverse effect on the environment as defined by CEQA, because the site does not qualify as a historic resource under the CEQA Guidelines.

4.11 Mitigations

The Town of Los Gatos can require feasible mitigations to address unavoidable adverse environmental impacts that may result from implementation of a proposed project. However, mitigations are not warranted for this project, as the site, features and its individual buildings are not historic resources within the meaning of CEQA.

Under the Town code, all demolition permits require property owners to make available salvage materials from buildings to be demolished.

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6.0 APPENDIX

Department of Parks and Recreation (DPR) 523 Series (Primary Records)

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

 ***Resource Name or #** (Assigned by recorder) Convent of the Holy Names – Marian & Siena Residences

P1. Other Identifier: None

***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted** ***a. County** Santa Clara

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** Los Gatos **Date** 1080 photorevised **T** n/a; **R** n/a; Mount Diablo **B.M.**

c. Address 200 Prospect Ave. City Los Gatos Zip 95030

d. UTM: (Give more than one for large and/or linear resources) Zone 10S; 590355mE/ 4119433mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)

Assessor's Parcel Number: 529-44-005,
west side of Prospect Avenue at Kimble Avenue and Reservoir Road.

***P3a Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

This pair of three-story institutional buildings represents a form of post-World-War-II design known as Mid-Century Modern. The buildings are a clear illustration of this style, known for its use of "Modern" unembellished materials (including concrete, steel, plate glass and, often, contrasting stone or brickwork) in primarily horizontal compositions, often formed with two or three discrete, geometric volumes and featuring repetitive elements, wing walls and exposed floor planes, and footprints that express the interior uses of the building. Modern architecture had its early roots in the International style and Art Moderne movements of the 1930s and progressed into a variety of architectural styles over the next few decades, primarily accentuating minimal detailing, sculptural forms, and innovative materials.

(Continued on page 2, DPR523L)

***P3b. Resource Attributes:** (List attributes and codes) HP16. Religious Buildings

***P4 Resources Present:** ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #)

Entry to Siena Residences, facing north, March 2011.

***P6. Date Constructed/Age & Sources:**
☒ Historic ☐ Prehistoric ☐ Both

1952, 58 years old.

***P7. Owner and Address:**

Sisters of the Holy Names
200 Prospect Ave.
Los Gatos, CA 95030

***P8. Recorded by:** (Name, affiliation, and address)

F.Maggi, L.Dill, & S.Winder
Archives & Architecture, LLC
PO Box 1332
San Jose CA 95109-1332

***P9. Date Recorded:** 3/23/2011

***P10. Survey Type:** (Describe)
Intensive

***P11. Report Citation:** (Cite survey report and other sources, or enter "none".)

Archives & Architecture, LLC: Historical and Architectural Evaluation, Convent of the Holy Names, Los Gatos, 2011.

***Attachments:** ☐ NONE ☐ Location Map ☐ Sketch Map ☒ Continuation Sheet ☐ Building, Structure and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling State Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (List)

(Continued from page 1, DPR523a, P3a Description)

The original design of these residential buildings embodies a distinctive Mid-Century Modern aesthetic, with such characteristic features as their thin concrete entry awnings and brise-soleil window surrounds, starkly geometrical flat roofs, blocky forms connected by a sculptural curved hallway, tapered columns, and ribbon windows.

The subject buildings are set at angles to each other in a sloped setting between Prospect Avenue, to the east, and the main hilltop ridge that is encompassed by the Sister of the Holy Names campus. Their combined footprints and landscaping cover much of the eastern half of the main property, and the Marian Residence borders the north side of the main entrance to the campus. To the south and northeast are parking lots. To the west, beyond the main campus driveway, are the grounds originally landscaped by Henry Clay Smith for his Far Hills estate. To the northwest are terraced gardens that connect these residences to the Provincial Residence and Office complex. To the north is a sloping landscaped area that is primarily open with few trees. The Mid-Century-Modern Marian and Siena buildings are surrounded by many stone borders and retaining walls that are original to, or compatible with, the Far Hills stonework from earlier in the twentieth century.

The Marian and Siena Residences are large concrete buildings connected by a curved second-story corridor and breezeway. Marian Residence is a long reversed-“F”-shaped building that runs approximately east-west, with two perpendicular wings that extend approximately to the north. The curved walkway connects to the end of the central north wing. Siena Residence is somewhat larger in footprint. The broad, rectangular main wing of this reversed-“F”-shaped building is angled to the northwest away from Marian, with two perpendicular, narrow rear wings that extend to the northeast. Siena is three stories, with two-story rear wings and a two-story portion that wraps the building’s north end.

The main entrance to Marian Residence is a one-story covered porch at grade with three tapered columns and a wing wall that support a flat roof. The porch extends into the landscape from the west end of the main wing and has slender wrought-iron handrails. The south elevation is exposed at the main campus entrance and from the south parking area. This uphill façade is only two stories; it is generally a flat plane, with a pattern of flush, roughly square windows spaced regularly along its length and height. A wide, two-story central accent bay projects shallowly near the front entrance. This bay features a full-width ribbon window at each level. A secondary entrance is recessed to the east of the bay. Between the bay and the doorway, offset 1/1 windows indicate an interior stair. This elevation has been altered with vinyl sash window inserts and exposed heating lines. The ribbon windows are shaded by aluminum slatted awnings. A small two-story addition was built at the east end of this main wing. The inside corner of Marian, nearest to Siena, features two stories of ribbon windows facing north toward the courtyard. At the lower, third, walk-out level, the courtyard is viewed from a window-wall slightly recessed behind square columns. The curved walkway turns at the west wall of the central wing, and becomes a raised, attached sunroom-like corridor at the second story. The attached solarium corridor and curved hyphen are raised on square columns that match the north courtyard columns. The area between the smaller wings of Marian is paved for service access. The windows here include smaller, replacement windows along the north and west elevations, and a row of 3x5-lite, very narrow and tall windows indicating a two-story interior space, facing east from the central wing. The east elevation of the building is also very simple; it is ornamented solely by three stories of windows in a utilitarian pattern; the two-story addition projects from the corner of this façade.

(Continued on next page)

(Continued from previous page)

The main entrance to Siena Residence is at the end of a long, raised walkway that approaches perpendicularly to the long, southwest front façade. Patterns in the side walls of this walkway indicate that the entrance may have once been stairs. The walkway has recent metal guardrails that are similar to the rectilinear wrought-iron railing that borders the front portico of the building. The front entrance is a one story corner structure, and features a thin flat roof supported by tapered posts and an exposed beam, matching the portico at Marian. The awning is attached to the building face and to the south side of a projecting building element that is one of the main character-defining elements of the residence. The wing is framed with side wing-walls and a thin upper eave. Within the box frame is a ribbon of windows at the second story and a band of tall, multi-pane windows at the first floor. The sides of the bay are unadorned except by a metal cross at the south façade. The main southwest elevation, on both sides of the central bay, consists of two full upper stories, with a sunken third story. The windows of this lower level are only slightly above grade. The south end of the residential building, at the courtyard connection to Marian, is unadorned by many windows or details; there is an exposed elevator bay. The rear wings have distinctive cantilevered and tapered brise-soleil frames on each side. The full-width and height of the center walls is cantilevered within the brise-soleil, so the windows are projecting from the main plane of the building mass, but flush with each other within the frame. The brise-soleil includes a top and center awning, and tapered wing walls between each bay of the proportionately large picture windows. These windows are tripartite, with fixed central units, operable paired side units, and narrow transoms above. The two rear wings are set closely together, forming a narrow courtyard between them. The two-story rear facade of the main wing features ribbon windows, a slightly raised linear terrace, and a recessed doorway. The north end of the building appears utilitarian, with almost no window openings on the front façade. The Siena Residence has undergone alterations similar to those at the Marian building: The windows have been altered with vinyl sash inserts and the walls are patterned with exposed heating lines. The ribbon windows within the front bay are shaded by aluminum slatted awnings.

An outbuilding at the edge of Prospect Avenue, near the north parking lot at Siena Residence, is a pump house. This small structure is built of brick with a concrete foundation and simple gable roof. There is horizontal v-groove wood siding in the gable end; moderate eaves with exposed rafter tails, and a single-panel door facing north. At the west end of the little building is a window-like screened opening.

Integrity

This portion of the property maintains much, but not all, of its integrity as per the National Register's seven aspects of historical integrity. The Marian and Siena Residences together maintain their original location at the front entrance to the larger Sister of the Holy Names campus. They are set within a naturalistic setting with some details likely dating from the Far Hills estate. This would appear similar to the original setting. The rectilinear forms, flat roofs and simple detailing of the residences retain a mid-twentieth-century institutional-residential scale and feeling. Because of the alterations to the windows and added exterior piping, the pair of buildings does not maintain a full sense of its original character-defining materials and form; however, the overall composition continues to provide associations with the Mid-Century Modern design.

Rear façade of Siena Residences, viewed facing east.

Rear entry of Marian Residences, viewed facing south.

Side entry to Siena Residences, viewed facing south.

Connection between Marian and Siena Residences, viewed facing south.

Northeast side of Siena Residences at Prospect Avenue, viewed facing southwest.

Rear façade of Siena Residences, viewed facing north.

Side enry to Siena Residences, viewed facing southwest.

Pump house at Prospect Avenue, viewed facing northeast.

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code Reviewer Date

Page 1 of 6 ***Resource Name or #** (Assigned by recorder) Convent of the Holy Names – Provincial Bldgs.

P1. Other Identifier: Provincial Offices / Seraphine Residences

***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted** ***a. County** Santa Clara

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** Los Gatos **Date** 1080 photorevised **T** n/a; **R** n/a; Mount Diablo **B.M.**

c. Address 200 Prospect Ave. City Los Gatos Zip 95030

d. UTM: (Give more than one for large and/or linear resources) Zone 10S; 590245mE/ 4119530mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)

Assessor's Parcel Number: 529-44-005,
west side of terminus of Prospect Avenue.

***P3a Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The form and materials of this pair of low, one-story buildings correspond to a mid-twentieth-century Ranch-style design and a sympathetic late-twentieth-century addition. Ranch-style designs became extremely popular after World War II, but had their beginning in local design of the late 1930s. The Ranch style exemplified an idealized and practical embodiment of Western living, as presented by *Sunset Magazine* with Cliff May in the 1946 book, *Western Ranch Houses*. The Provincial Residences (also called Seraphine Residences) appears to have evolved in at least two phases. The building utilizes materials that agree with its earlier construction date, including some horizontal wood window sash, (one) brick window sill, corner windows, and the brick exterior barbeque. Its full-height picture windows, deep eaves, sprawling asymmetrical footprint, and covered patio entrance area are representative of Ranch-style design from the 1930s into the 1950s. *(Continued on page 2)*

***P3b. Resource Attributes:** (List attributes and codes) HP16. Religious Building

***P4 Resources Present:** ☒ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #)

View facing west, March 2011.

***P6. Date Constructed/Age & Sources:**
☒ Historic ☐ Prehistoric ☐ Both

Ca. 1950, remodeled res. & new office 1979-1980.

***P7. Owner and Address:**

Sisters of the Holy Names
200 Prospect Ave.
Los Gatos, CA 95030

***P8. Recorded by:** (Name, affiliation, and address)

F.Maggi, L.Dill, & S.Winder
Archives & Architecture, LLC
PO Box 1332
San Jose CA 95109-1332

***P9. Date Recorded:** 3/23/2011

***P10. Survey Type:** (Describe)
Intensive

***P11. Report Citation:** (Cite survey report and other sources, or enter "none".)

Archives & Architecture, LLC: Historical and Architectural Evaluation, Convent of the Holy Names, Los Gatos, 2011.

***Attachments:** ☐ NONE ☐ Location Map ☐ Sketch Map ☒ Continuation Sheet ☐ Building, Structure and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling State Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (List)

(Continued from page 1, DPR523a, P3a Description)

The location of the Provincial Office and creates a landscaped enclosure, and relates to the Residence through its low uphill forms and use of similar materials; however, it has repetitive window patterns and battered wall forms that illustrate modern Neo-Prairie-style influences of the late-twentieth century.

The subject buildings are centrally located at the top of the knoll to the northwest of the large convent residential complex; the area between these complexes is terraced to include walkways, retaining walls, hedges, gazebos, and vegetable and flower gardens. The Provincial complex was the site of the main house of Henry Clay Smith's Far Hills estate, and the remaining Far Hills outbuildings and landscaping features extend to the south and southwest of the Provincial complex. The Knight/Menuhin Villa is to the northeast of this site, across some open space and beyond a private residence. The knoll is bordered by a heavily wooded downhill slope to the west and north. From the south, the main driveway leads in a straight line toward the center of the two buildings before it turns to the east. The hill slopes severely to the east, where a walk-out basement level provides on-grade garages to the driveway that passes beneath the Provincial Offices. The close placement of the two buildings creates a center lawn-filled yard, sprinkled with a few specimen trees and foundation plantings. Narrow concrete paths connect the two structures through the lawn. The central lawn extends into a small courtyard within the curve of the Provincial Residence. At the south end of the buildings, the entrance to the yard passes through a curved cobblestone planting bed, a modern design, and a breezeway connects the two buildings. The hillside setting of the Provincial Residence includes some stone retaining walls and walkways, remnants from the Far Hills estate.

The raised Provincial Residence is a frame building set at the brow of a level knoll within the larger Sisters of the Holy Names campus. The footprint includes a rectangular north end, linked to a series of smaller wings that are set at angles to each other in a "V". The inner portion of the "V" is the extended central yard, and it includes a covered patio/walkway in typical Ranch-style configuration. The southernmost end of these angled wings is accented by a full-width bow window with full-height windows; adjacent to this feature, a breezeway connects the Residence building to the Provincial Office. It appears from the materials as though much of the angled wing of the house was built earlier, likely in the early 1950s just after the property was acquired. The building was then altered over time. The roof is hipped, but because of its long wings, much of the building has the appearance of a simple gable. The roof is covered with composition shingles. Illustrative of its mid-century construction date, the eaves features exposed rafter tails that are moderate in depth, with a prominent applied metal fascia gutter. The walls are clad in heavily hand-worked stucco siding, with some smoother stucco at the northern wing. Fenestration is varied. Within the angled wing, there are some wood sash windows and one brick sill. Indicative of the Ranch style, some of the windows are set at corner units, and there is a large picture window unit flanked by 1x5-lite windows. The bow window at the southern end of the building is full-height and full-width, with a rounded roof. The change in foundation detail and the window sash trim indicate that this feature may have been added later in the twentieth century. The remainder of the windows consist of paired and tripartite aluminum sliders, set within flat-board trim. These windows are set individually in a rhythm of room size around the perimeter of the walls, indicating the repetitive floor plan within.

The main front entrance is recessed within the inside of the courtyard; the covered walkway/patio consists of concrete pavers. To the front of the entry way is a large Oak tree that appears in a circa 1912 photograph of the Smith house that was once in this location. Beneath the shed patio roof, to the side of the entrance is a large brick barbeque. The front doorway includes a pair of French doors with 1x5-lite horizontal proportions. Recessed doorways provide access throughout the upper ground level. The walk-out basement at the southwest façade includes large, swinging wood service doors.

(Continued on next page)

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The frame Provincial Office is a proportionally large, roughly rectangular building set into a steep hillside on the east side of a level-top knoll. It is one story at the upper (west) side and two stories on the east side. The one-story front entrance wing projects to the south from the main mass of the building; the doorway is recessed next to a long accent ribbon of windows, a Modern interpretation of Prairie-style design from the early twentieth century. The building is protected by a hipped roof, covered in composition shingles. The front entry roof is a shed continuation of the main roof, creating a low, Moderne entrance; the roof extends to the west into the breezeway between this building and the Provincial Residence. At the two lower corners of the building, projecting battered corner walls provide a heavy accent forms, corresponding to additional Prairie-style influences. The boxed eaves are deep, with a prominent fascia gutter at the eaves. The walls are clad in smooth stucco siding with crisp corner lines, indicating the building's late-twentieth-century construction. Fenestration consists primarily of aluminum sliders set within flat-board picture-frame trim. A ribbon of twelve sash spans the projecting front façade of the building, creating a wide, high focal window. Facing the interior yard, the windows are placed individually and simply, to relate to the scale and detailing of the Provincial Residence. To the east, above the three garage bays, the windows are also placed in a ribbon configuration. The front door is accented by a 3x7 pattern of carved panels; the door is flanked by a pair of narrow windows and a nearby narrow accent window. In addition to the main doorway there are more modest doors facing the yard and at the base of the side of the building.

Integrity

This portion of the property maintains much, but not all, of its integrity as per the National Register's seven aspects of historical integrity. The Provincial Residence and Office maintain their original locations atop the knoll within the larger Sister of the Holy Names campus. It is set within a naturalistic setting to the north and south, and open garden spaces to the east and west, apparently similar to the original setting. The immediate setting is recent and modern in design, in keeping with, but not illustrative of an historical residential landscape. The form and footprint of the Residence and Office both retain a mid-twentieth-century institutional-residential scale and feeling. Because of the alterations over time, the Provincial Residence does not maintain a majority of its original materials and form; however, the overall composition continues to provide associations with the Ranch-style design. Because of the modification, the design is not an individually significant representation of the style within the context of the greater South Bay area.

Provincial Offices building northeast elevation, viewed facing northwest.

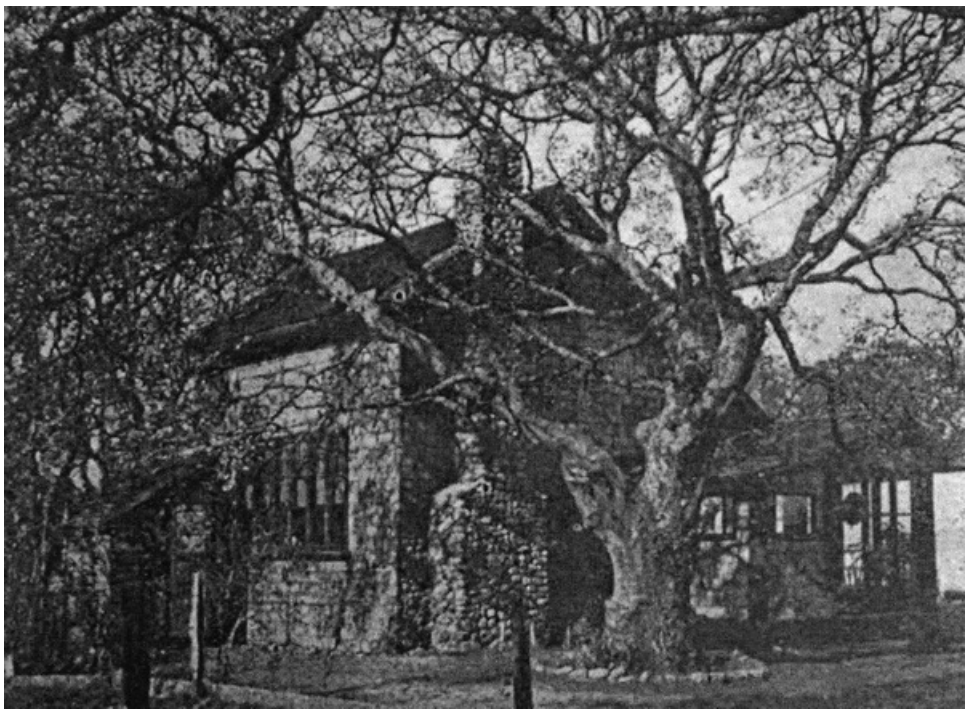
Provincial Residences building rear façade, viewed facing northwest.

Provincial Residences building interior court, viewed facing northwest.

Provincial Residences building at entry, viewed facing northwest.

Provincial Offices and Residences buildings rear entry, viewed facing southwest.

Provincial Residences and Offices building at entry, viewed facing northwest.



Historic (ca. 1912) view of Smith House (with Oak tree as apparently exists today in photo above).

State of California – The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

***Resource Name or #** (Assigned by recorder) Convent of the Holy Names – Far Hills

P1. Other Identifier: Stone House – Cortona building

***P2. Location:** ☐ **Not for Publication** ☒ **Unrestricted** *a. **County** Santa Clara

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** Los Gatos **Date** 1080 photorevised **T** n/a; **R** n/a; Mount Diablo **B.M.**

c. Address 100 Prospect Ave. City Los Gatos Zip 95030

d. UTM: (Give more than one for large and/or linear resources) Zone 10S; 590263mE/ 4119427mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, etc., as appropriate)

Assessor's Parcel Number: 529-44-005,
west side of Prospect Avenue west of Kimble Avenue.

***P3a Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

Within the sloping western half of the subject property are the remains of the Far Hills estate, the former summer residence of prominent San Francisco architect, Henry Clay Smith. The main house had been located where the Seraphine and Regional Office buildings exist today, but is now gone; however, the remaining outbuildings and stone landscape features continue to illustrate strong associations with the picturesque early-twentieth century property in the Los Gatos hills. The outbuildings are linked and supported by stone retaining walls, stairways, foundations, and other stone features as well as mature trees that create a meandering framework for the extant Craftsman-era cottage, garage, and adaptively re-used tank house base.

(Continued on page 2, DPR523L)

***P3b. Resource Attributes:** (List attributes and codes) HP16. Religious Building; HP4. Ancillary Building; HP2. Single Family Property; HP46. Walls/gates/fences.

***P4 Resources Present:** ☒ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (View, date, accession #)

Stone House, March 2011, viewed facing southwest.

***P6. Date Constructed/Age & Sources:**
☒ Historic ☐ Prehistoric ☐ Both

Ca. 1911-1918, 90 plus years old. Based on article in *Architect & Engineer*.

***P7. Owner and Address:**

Sisters of the Holy Names
of Jesus and Mary
100 Prospect Ave.
Los Gatos, CA 95030

***P8. Recorded by:** (Name, affiliation, and address)

F.Maggi, L.Dill, & S.Winder
Archives & Architecture, LLC
PO Box 1332
San Jose CA 95109-1332

***P9. Date Recorded:** 3/26/2013

***P10. Survey Type:** (Describe)
Intensive

***P11. Report Citation:** (Cite survey report and other sources, or enter "none".)

Archives & Architecture, LLC: Historical and Architectural Evaluation, Convent of the Holy Names, Los Gatos, 2011.

***Attachments:** ☐ NONE ☐ Location Map ☐ Sketch Map ☒ Continuation Sheet ☐ Building, Structure and Object Record ☐ Archaeological Record ☐ District Record ☐ Linear Feature Record ☐ Milling State Record ☐ Rock Art Record ☐ Artifact Record ☐ Photograph Record ☐ Other (List)

(Continued from page 1, DPR523a, P3a Description)

Houses from the Craftsman era—about 1905 to 1925—embody a local design response to the Arts-and-Crafts movement, as presented in such historic magazines as *Craftsman*. There was often an emphasis on heavy joinery and other handmade materials, such as exposed rafter tails and knee braces, and architects of the time highlighted the horizontal proportions of their designs. Even very modest buildings from that era, such as these outbuildings and landscape features, included character-defining elements that refer to the more popular motifs of Craftsman design.

The original house was at one of the highest points on the hillside. At the time of its construction, it was near the northern end of Smith's property. Facing the house, immediately to the south, was the Far Hills garage, now known as the Cortona, set into the brow of the steep hillside. The garage and its second-story apartments remains extant, although the building has been somewhat altered over time. Immediately south of the garage is a small level area that features what appear to be the base of a tank house and the foundations of a larger structure of some kind. A small, recent, greenhouse is located on this level site. To the southwest of the tank house is an intact hillside cottage of a rare rustic design, including stone clad foundations and bark-covered corner pilasters. To the southwest of the Stone House, near the southwest boundaries of the property, is an exterior stone chimney and high foundation that has been incorporated into a modern raised stone patio. Along the pathway that connects these elements is a stone wishing well and retaining. To the southeast of these features, along the steep hillside to the south and the main mid-twentieth-century buildings and parking are a pond, stone borders, benches, and gardens that appear to be original Smith-design landscape features. The driveway is lined with stone, some appearing original to the Smith design, and others added sympathetically to the landscape over time. Below the buildings, to the west, is a landscape with a natural appearance: scrub oak, grasses, bay laurel, and other local flora are present. Down the slope is a flattened pathway that was once the site of the flume to the Tilsdale Reservoir.

The Cortona, the former Far Hills two-story frame garage building, has a roughly rectangular footprint that is covered by a full-width moderately pitched gable roof that is typical of a Craftsman structure. The uphill (east) end of the building features a set of exterior wooden stairs that lead to a balcony on the north side of the second story. This balcony provides access to a row of three small apartments. On the north side of the building, the lower floor features a walk-out basement level with three garage bays and an on-grade office/shop; the building continues to step steeply down the hillside in one-story wings. The deep eaves feature exposed rafter tails, with outlookers at the gable ends; the outlookers appear to have been trimmed in the recent past. The upper walls are clad in horizontal wood lap siding, and the lower floor is built of painted concrete masonry units. The roof is covered with composition shingles. Fenestration consists primarily of new vinyl slider window sash set within wood trim. Windows are set individually on the south side and east end of the upstairs residential units. The balcony roof appears to have been repaired and/or extended over the balcony at some time; the handrail is a modern interpretation of a late-nineteenth-century clipped flat-board design. The glazed original upstairs doors are approximately centered above the garage door bays; modern security screens protect these doors. The swinging garage doors are also original; they feature eight small lites above a panel of vertical v-groove. Within the garages is also found original detailing and materials, including redwood v-groove paneling between the car stalls and wood, multi-lite windows facing south. The steep additions, or one-story wings, are reached by a set of exterior concrete stairs near the northwest corner of the main two-story block. The first level is a wood-clad storage unit with dedicated shelving and wire-mesh lockers. It is clad in horizontal siding similar to the upper level of the main wing of the garage and features a low-slope shed roof. The lower storage unit is built of sloping-board-formed concrete, with a wire mesh ventilation band that surrounds the steeply sloped shed roof. This wing has two interior levels. A pair of small, high windows punctuates the west end of this addition.

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The Stone House is a distinctive rustic Craftsman residence set into the side of the steep hillside near the western property line of the Far Hills area of the campus. To the west, downhill, the land is terraced with naturalistic plantings and open space. Surrounding the remainder of the house are stone retaining walls and pathways that link the Far Hills features. The foundation of the raised, one-story house is brick with a full-height stone pony wall, and the upper main floor is frame, including some single-wall partitions. The small footprint is approximately rectangular, with a front entrance and accent gable to the south, a small, originally cantilevered, balcony to the west, and a secondary entrance at the north end. The gabled roof is in two sections, front and back, at two slightly dissimilar levels. The eaves on the east (uphill) side are very close to grade, while the west side is raised almost a full story above grade. The uphill side of the house is clad in stone; on the uphill side of the house, near the front door, is a projecting stone retaining wall that indicates where a chimney was blocked over. The deep eaves feature exposed rafter tails at the front porch and boxed eaves throughout the main roof, Classical eave returns at the gable ends. The upper walls are clad in long, thin wood shingles; the walls flare at the base, above the foundation. This proportion of shingle is associated with the Craftsman period, particularly in architect-designed picturesque settings, such as in Carmel. The corners are accented by bark-clad tree-trunk pilasters with tree-limb brackets. The recessed front door entry is flanked by additional tree-trunk pilasters, and the gabled front porch roof rests on a pair of tree trunk columns and bark-covered beams, raised on low stone side walls. Set into the hillside at the front door is a stone bench. The roof is covered with composition shingles, and the gable-end apex vents are accented by bark-covered half-round louvers. Fenestration at the front half of the house consists primarily of wood casements with 2x4 lites, set in paired units within recessed wood trim. The windows at the rear half of the house consist of large wood sliders, with a 2x3-lite pattern. The front door features four panels. The side balcony is clad in a solid, shingled wall, and originally supported on a pair of heavy angled posts. A new pair of posts and beam has been added to the support. Access to the balcony is through a pair of multi-lite French doors.

The tank house is a small square structure with a thick 6’ frame or concrete structure concealed by heavily textured stucco. The walls are battered, with a recessed door facing west. The structure is topped by a recent wood deck. The tank house is encircled on two sides by a low stone wall and foundation plantings. The asphalt access road passes to the east of the structure, and a level paved area used for a greenhouse and other gardening preparation and storage is found to the west and northwest.

The system of stone borders at the western edge of the property, retaining walls, pathways, and other outdoor structures associated with the Far Hills estate provide a picturesque setting for the entire campus. Outdoor elements of this area of note include a stone chimney with arched upper niche near a partially new raised deck, a curving stone bench, a large and a small pond, a wishing well (that appears to have been repaired recently with new wooden elements), and what appear to be some outbuilding foundations (with missing structures). The landscape is designed deliberately, and it has been respected and enhanced by the current owners. There are numerous stone structures throughout the campus including the horseshoe shaped area surrounded by Rosary Lane that are clearly not original to the Far Hills estate, their workmanship and materials differ; however, they are compatible with the design, appropriate in scale and location. In the northeast corner of the main campus, near the private home on Prospect Avenue, is a tennis court that appears from the texture, quality and patina of the concrete, in all likelihood to date from the Far Hills era. The location of the tennis court is separated from the remaining portions of the Far Hills estate by the Seraphine and Regional Office buildings.

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Integrity

The Far Hills portion of the property maintains only some of its integrity as per the National Register's seven aspects of historical integrity and the California Register criterion. The loss of the primary residence, and the addition of more recent buildings on large portions of the historic property, has adversely impacted the overall understanding of the significance of the original estate. The remaining elements of the historic property, such as the cottage, stone walls, and outdoor fireplace, continue to provide only vestigial clues that might convey the overall rustic design aesthetic of the architect who lived there. The elements that remain are original and have individual integrity, but the missing parts were critical to the overall historic composition.

The extant components maintain their original locations on the brow of the hill to the west side of Prospect Avenue in Los Gatos, on the sloping western half of the subject property. The cottage and landscape elements are set in open space and dense and natural flora that buffers the property from the surrounding residential neighborhood. The immediate setting of these structures appears largely original to the Henry Clay Smith design, and alterations to the cottage and each landscape component have been in keeping with the historical residential landscape. Meanwhile, the larger setting has been irreversibly altered by the demolition of the main house and by the construction of the mid-twentieth-century campus atop the hill, covering much of the original property. The small cottage continues to represent a modest Craftsman Bungalow design. The form and footprint of the cottage retain its early-twentieth-century residential location, scale and feeling. Its stonework, siding, and other materials and details are evidence of the design and workmanship of the Arts-and-Crafts era. The stone landscape walls and outdoor chimney also continue to embody the local design aesthetic and workmanship of the early-twentieth century. As smaller residential outbuildings and structures on a larger rustic estate, these elements do convey minor local design associations with the early context of Los Gatos, but do not collectively represent the original significant estate and its historical associations.

Entry to Stone House, viewed facing west.

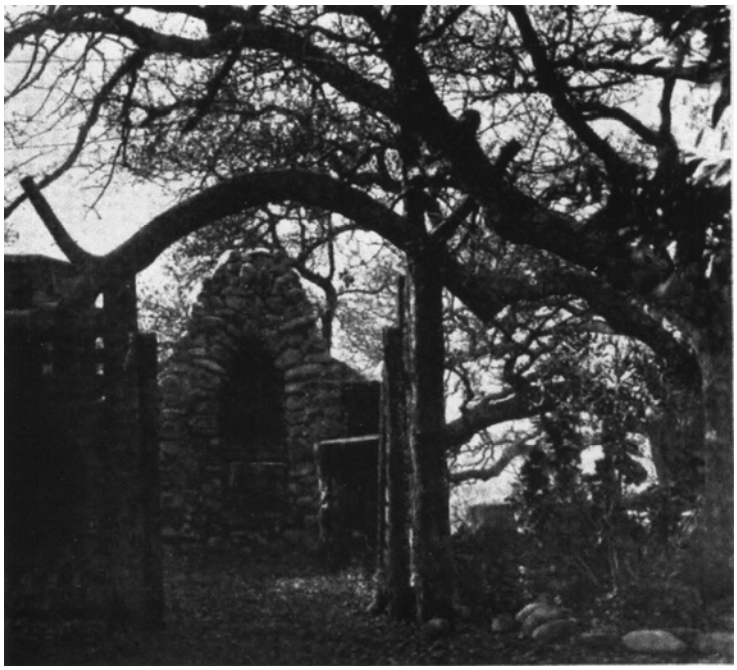
Rear elevation of Stone House, viewed facing northwest.

Detail view of rear of Stone House foundation stone.

Walls at internal road above Stone House.

Landscape features including bench and pond at south end of site.

Patio with outdoor chimney, viewed facing southwest.



Early historic view of similar or same chimney at site of Far Hill, from *Architect & Engineer*.

Patio structure, viewed facing southwest.

Stone walls below patio structure, viewed facing south.

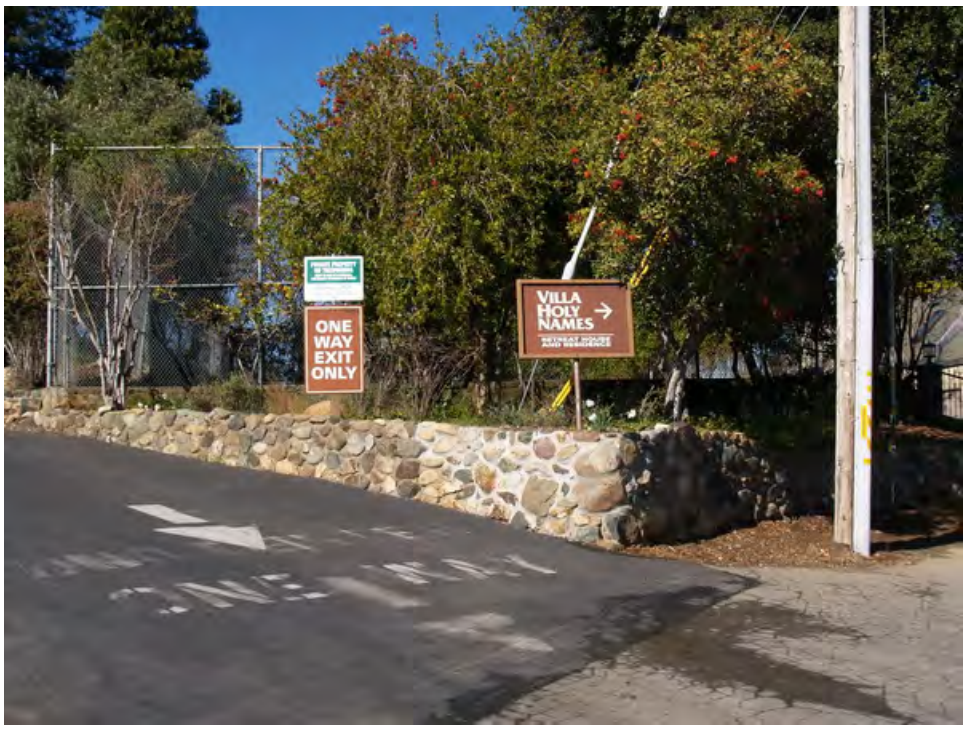
Cortona building, viewed facing southwest.

Lower end of Cortona building, viewed facing southwest.

Tankhouse base, viewed facing west.

Walls west of Cortona building.

Stone walls below Cortona building – site of Henry Clay Smith house above.



Tennis/ basketball court at terminus of Prospect Avenue.

APPENDIX J

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT
AND
SOIL QUALITY REPORT

CORNERSTONE EARTH GROUP

Type of Services	**Phase I Environmental Site Assessment Update**
Location	**100 and 200 Prosect Avenue** **Los Gatos, California**
Client	**Sisters of the Holy Names of Jesus and Mary**
Client Address	**P.O. Box 398** **Marylhurst, OR 97036**
Project Number	**440-1-5**
Date	**March 27, 2013**

Prepared by

Stason I. Foster, P.E.
Senior Project Engineer

Kurt M. Soenen, P.E.
Principal Engineer

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CORNERSTONE EARTH GROUP

Table of Contents

Type of Services	**Phase I Environmental Site Assessment Update**
Location	**100 and 200 Prosect Avenue** **Los Gatos, California**

SECTION 1: INTRODUCTION

This report presents the results of the Phase I Environmental Site Assessment (ESA) Update performed at 100 and 200 Prosect Avenue in Los Gatos, California (Site) as shown on Figures 1 and 2. This report is an update of our prior Phase I ESA dated March 25, 2011 that was performed for Sisters of the Holy Names of Jesus and Mary (SNJM) in accordance with our February 28, 2013 Agreement (Agreement). Cornerstone Earth Group, Inc. (Cornerstone) understands that SNJM is planning to obtain a tentative map for a residential subdivision of 17 single-family lots of about half an acre each. Future development would include demolition of all structures and related driveways and parking lots.

1.1 PURPOSE

The scope of work presented in the Agreement was prepared in general accordance with ASTM E 1527-05 titled, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" (ASTM Standard). The ASTM Standard is in general compliance with the Environmental Protection Agency (EPA) rule titled, "Standards and Practices for All Appropriate Inquiries; Final Rule" (AAI Rule). The purpose of this Phase I ESA is to strive to identify, to the extent feasible pursuant to the scope of work presented in the Agreement, Recognized Environmental Conditions at the property.

As defined by ASTM E 1527-05, the term Recognized Environmental Condition means the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, past release, or a material threat of a release of hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water on the property.

1.2 SCOPE OF WORK

As presented in our Agreement, the scope of work performed for this Phase I ESA included the following:

- A reconnaissance of the Site to note readily observable indications of significant hazardous materials releases to structures, soil or ground water.
- Drive-by observation of adjoining properties to note readily apparent hazardous materials activities that have or could significantly impact the Site.

- Acquisition and review of a regulatory agency database report of public records for the general area of the Site to evaluate potential impacts to the Site from reported contamination incidents at nearby facilities.
- Review of readily available information on file at selected governmental agencies to help evaluate past and current Site use and hazardous materials management practices.
- Review of readily available maps and aerial photographs to help evaluate past and current Site uses.
- Interviews with persons reportedly knowledgeable of existing and prior Site uses, including the current and past Site owners, and the current and past Site operator(s) (if these persons are made available by SNJM).
- Preparation of a written report summarizing our findings and recommendations.

The limitations for the Phase I ESA are presented in Section 10; the terms and conditions of our Agreement are presented in Appendix A.

1.3 ASSUMPTIONS

In preparing this Phase I ESA, Cornerstone assumed that all information received from interviewed parties is true and accurate. In addition, we assumed that all records obtained by other parties, such as regulatory agency databases, maps, related documents and environmental reports prepared by others are accurate and complete. We also assumed that the boundaries of the Site, based on information provided by SNJM, are as shown on Figure 2. We have not independently verified the accuracy or completeness of any data received.

1.4 ENVIRONMENTAL PROFESSIONAL

This Phase I ESA was performed by Stason Foster, P.E. and Kurt M. Soenen, P.E., environmental professionals who meet the ASTM E 1527-05 qualifications.

SECTION 2: SITE DESCRIPTION

This section describes the Site as of the date of this Phase I ESA. The location of the Site is shown on Figures 1 and 2. Tables 1 through 3 summarize general characteristics of the Site and adjoining properties. The Site is described in more detail in Section 7, based on our on-Site observations.

2.1 LOCATION AND OWNERSHIP

Table 1 describes the physical location, and ownership of the property, based on information provided by SNJM.

Table 1. Location and Ownership

Assessor's Parcel No. (APN)	Reported Address*	Approximate Lot Size*	Owner
529-44-005	100 and 200 Prosect Avenue, Los Gatos, California	10.3 acres	SNJM

* Parcel address and size information was obtained from the Santa Clara County Geographic Information Services website.

2.2 CURRENT/PROPOSED USE OF THE PROPERTY

The current and proposed uses of the property are summarized in Table 2.

Table 2. Current and Proposed Uses

Current Use	Convent, care center, and Administrative offices
Proposed Use	Residential – single-family homes

2.3 SITE SETTING AND ADJOINING SITE USE

Land use in the general Site vicinity appears to be primarily residential. Based on our Site vicinity reconnaissance, adjoining Site uses are summarized below in Table 3.

Table 3. Adjoining Site Uses

North	Residential
South	Residential
East	Residential
West	Residential

SECTION 3: USER PROVIDED INFORMATION

The ASTM standard defines the User as the party seeking to use a Phase I ESA to evaluate the presence of Recognized Environmental Conditions associated with a property. For the purpose of this Phase I ESA, the User is SNJM.

3.1 CHAIN OF TITLE

SNJM provided Cornerstone with a preliminary title report, dated March 27, 2013, prepared by First American Title Insurance Company. The title report did not identify any environmental liens. The provided information notes that SNJM was formerly known as Sisters of the Sacred Names of Jesus and Mary and also are successors in interest to College of the Holy Names.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

No information regarding environmental liens or activity and use limitations (AULs) was provided for our review.

3.3 SPECIALIZED KNOWLEDGE AND/OR COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

The ASTM Standard requires that if the User is aware of any specialized knowledge and/or commonly known or reasonably ascertainable information within the local community about the Site that is material to Recognized Environmental Conditions, such as environmental liens, a significantly lower purchase price due to the property being affected by hazardous materials, or other conditions that are material to Recognized Environmental Conditions in connection with the Site, it is the User's responsibility to communicate such information to the environmental professional. Based on information provided by or discussions with SNJM, we understand that SNJM does not have such specialized knowledge and/or commonly known or reasonably ascertainable information regarding the Site.

3.4 REASON FOR PERFORMING PHASE I ENVIRONMENTAL SITE ASSESSMENT

We understand that SNJM is planning to obtain a tentative map to subdivide the property into 17 single-family residential lots. We performed this Phase I ESA to support SNJM in evaluation of Recognized Environmental Conditions at the Site. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for Recognized Environmental Conditions at the Site.

SECTION 4: RECORDS REVIEW

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES

Cornerstone contracted with a firm specializing in the computerized search of environmental regulatory databases to evaluate the likelihood of contamination incidents at and near the Site. The databases and search distances were in general accordance with the requirements of ASTM E 1527-05. A list of the database sources reviewed, a description of the sources, and a radius map showing the location of reported facilities relative to the project Site are presented in Appendix B.

SNJM is listed at the Site address on the State underground storage tank (UST) databases that indicate a 2,000 gallon motor vehicle fuel UST was formerly located on-Site. SNJM also is listed on the HAZNET database; this listing indicates that asbestos containing waste from the Site was manifested and disposed off-Site. Additional information regarding removal of this UST is presented in Section 4.2.1

Based on the information presented in the agency database report, no off-Site facilities were reported that appear likely to significantly impact ground water beneath the Site. The potential for impact was based on our interpretation of the types of incidents, the location of the reported incidents in relation to the Site and the assumed ground water flow direction.

4.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

The following additional sources of readily ascertainable public information for the Site also were reviewed during this Phase I ESA.

4.2.1 City and County Agency File Review

To update information obtained during the 2011 Phase I ESA, Cornerstone requested available files pertaining to 100 and 200 Prosect Avenue at the following public agencies: the Los Gatos Building Department (LGBD), Santa Clara County Fire Department (SCCFD), and the Santa Clara County Department of Environmental Health (SCCDEH). The SCCDEH indicated that they have no files pertaining to the Site.

No new agency files (*i.e.*, records dated subsequent to our prior 2011 report) were identified at the LGBD or SCCFD. The information previously reviewed (Cornerstone, 2011a) is presented below in Table 4 for completeness; copies of selected documents are attached in Appendix C.

Table 4. File Review Information

Agency Name	Date	Occupant	Remarks
LGBD	1945	Not listed	Permit to demolish a one-story residence.
LGBD	1948	Not listed	Permit to construct a guest house.
LGBD	1950	Not listed	Permit to demolish a house.
LGBD	1950	Not listed	Permit to construct a convent building.
LGBD	1951	Not listed	Permit to repair fire damage to a dwelling.
LGBD	1955	Not listed	Permit to finish the upper floor of a school building.
LGFD	1962 and 1965	SNJM Convent	Miscellaneous correspondence noting occupancy as a convent.
LGFD	1969	Dormitory	Correspondence regarding remodeling of a dormitory.
LGBD	1970s	Montessori school, dormitory, offices and SNJM convent.	Various permits related to tenant improvements and alterations.
LGFD	1970	Casa Maria Montessori School	Various correspondence and an inspection report noting the planned development of a Montessori school.
LGBD	1979	Convent of Holy Names	Site plan showing electrical connections associated with a gasoline pump/dispenser.
LGFD	1986 to 1993	Convent of the Holy Names	A hazardous materials inventory from 1986 lists a 2,000-gallon UST containing unleaded gasoline. A “gas pump” was noted on a 1986 inspection report. Hazardous materials storage permits note the storage of flammable liquid.
LGFD	1987	Convent of the Holy Names	UST monitoring plan and letter indicating that a gasoline UST was installed in 1977 and used to fuel cars owned by the Sisters of the Holy Names.
LGBD	1990s	SNJM	Various permits related to remodeling of offices, residential areas, elevator upgrades and the installation of an emergency generator.
LGFD	1994	SNJM	UST removal report (prepared by All Chem) and related inspection report noting the removal of a 2,000-gallon gasoline UST and associated piping. The report states that no

			indications of leakage were observed during the UST removal. Two soil samples were collected from native soil approximately 2 feet below the bottom of the UST and analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX); these analytes were not detected.
LGFD	1996	SNJM	Plans and related documents pertaining to the installation of an emergency generator with an integral, above ground, 125-gallon diesel storage tank. The generator location is noted to be at the location of a former UST.
LGFD	1996	SNJM	Inspection report and related documents noting installation of an elevator.
LGFD	1999	Casa Maria Montessori School/Daycare	Letter indicating that the Casa Maria Montessori School/Daycare facility closed permanently.
LGBD and LGFD	2000s	SNJM	Various plans and permits for chapel renovations (Marian Building), roofing upgrades, sewer replacement work, parking improvements and other remodeling projects.

In addition to the items listed above, LGFD records contained numerous fire safety inspection reports and logs dated between 1971 and 2010. These reports did not identify any violations that would be indicative of hazardous materials spills.

SECTION 5: PHYSICAL SETTING

We reviewed readily available geologic and hydrogeologic information to evaluate the likelihood that chemicals of concern released on a nearby property could pose a significant threat to the Site and/or its intended use.

5.1 RECENT USGS TOPOGRAPHIC MAP

A recent USGS 7.5 minute topographic map was reviewed to evaluate the physical setting of the Site. The Site consists of a hilltop location with elevations ranging from approximately 500 to 600 feet above mean sea level. Topography generally slopes downward from the central portion of the Site; relatively steep slopes are present on the west and northwest portions of the Site and more gradual slopes are present elsewhere.

5.2 GEOLOGY AND HYDROGEOLOGY

As discussed in our Feasibility Geologic and Geotechnical Hazards Evaluation prepared for the Site (Cornerstone Earth Group, 2011b and updated March 27, 2013), exposures of subsurface materials occur sparsely at the ground surface, and along a rough graded road that follows the west and north property lines. Santa Clara Formation ("QTsc") is exposed in the road cut near the west property line. Permanente Terrane Mélange ("fsrp") of the Franciscan Complex is exposed in a natural outcrop just beyond the west property line. The contact between these rock types can be inferred to lie between these outcrops but tends to follow slope contours due to the flat lying nature of the contact. This contact is located further west than that depicted on published regional geologic maps. Where exposed, the Santa Clara Formation is a semi-consolidated clayey sand with gravel. The gravel is typically sub rounded and medium to coarse. Where exposed, the Mélange is massive, hard and blocky. Santa Clara Formation is exposed in the roadcuts along College Avenue just northeast of the Site.

No information regarding on-Site ground water depths was identified in the data sources reviewed during this study. Ground water flow directions typically follow surface topography, thus, are likely to be variable at the Site. A northerly regional ground water flow direction would be anticipated.

SECTION 6: HISTORICAL USE INFORMATION

During preparation of our 2011 Phase I ESA report, we reviewed historical use information to develop a history of the previous uses of the Site and surrounding area in order to help identify the likelihood of past uses having led to Recognized Environmental Conditions at the Site. The results of our review are repeated below for completeness.

6.1 HISTORICAL SUMMARY OF SITE

The historical sources reviewed are summarized below. The results of our review of these sources are summarized in Table 5.

- **Historical Aerial Photographs:** We reviewed aerial photographs dated 1939, 1948, 1956, 1965, 1976, 1982, 1993, 1998 and 2005 obtained from Environmental Data Resources, Inc. (EDR) of Milford, Connecticut; copies of aerial photographs reviewed are presented in Appendix D.

- **Historical Topographic Maps:** We reviewed USGS 15-minute and 7.5-minute historic topographic maps dated 1919, 1947, 1953, 1968, 1973 and 1980; copies of historic topographic maps reviewed are presented in Appendix D.

- **Historical Fire Insurance Maps:** EDR reported that the Site was not within the coverage area of fire insurance maps.

- **Local Street Directories:** We reviewed city directories obtained from EDR that were dated from 1975 to 2007 to obtain information pertaining to past Site occupants; the city directory summary is presented in Appendix E.

Table 5. Summary of Historical Source Information for Site

Date	Source	Comment
1919	Topographic map	Several structures typical of residences are depicted to be on and/or near the Site.
1939	Aerial photograph	The Site appears to be occupied mainly by an orchard. At least one structure also is shown, which appears to be a residence. Due to the quality of the photograph, specific Site details are difficult to interpret.
1947	Topographic map	Three structures typical of residences are depicted to be on or near the Site.
1948	Aerial photograph	The Site appears similar to that shown on the 1939 aerial photograph. Three or four structures that appear to be residences are apparent.
1953	Topographic map	A convent is shown to occupy the Site. The two main current on-Site building (Marian and Siena buildings; Figure 2) are depicted, along with several of the smaller residences.
1956 and	Aerial	The Site appears similar to current conditions. Except for

1965	photographs	the Provincial Office and Provincial Residence buildings (Figure 2), most of the other current on-Site structures are apparent.
1968 and 1973	Topographic maps	The Site appears similar to that depicted on the 1953 topographic map.
1975	City Directory	Listed occupants include Casa Maria School, Emmanuel House and Sisters of the Holy Names Convent.
1976 and 1982	Aerial photographs	Due to the quality of the photographs, specific Site details are difficult to interpret. The Site appears to be generally similar to that shown on the 1965 aerial photograph.
1980	Topographic maps	The Site appears similar to that depicted on the 1953 topographic map.
1984	City Directory	Listed occupants include Casa Maria Montessori School, Villa Community and Sisters of the Holy Names.
1991	City Directory	Listed occupants include Casa Maria Montessori School and Sisters of the Holy Names Convent.
1993	Aerial photograph	The Site appears similar to the current conditions.
1997	City Directory	Listed occupants include Casa Maria Montessori School and Sisters of the Holy Names Convent.
1998 and 2005	Aerial photographs	The Site appears similar to the current conditions.
2007	City Directory	Occupant listed as Sisters of the Holy Names Convent.

6.2 HISTORICAL SUMMARY OF SITE VICINITY

Based on our review of the information described in Section 6.1, the general Site vicinity appears to have historically consisted mainly of hillside orchards with widely spaced residences. A gradual decrease in orchards and an increase in residential development are apparent over time.

SECTION 7: SITE RECONNAISSANCE

We performed a Site reconnaissance to evaluate current Site conditions and to attempt to identify Site Recognized Environmental Conditions. The results of the reconnaissance are discussed below. Additional Site observations are summarized in Table 6 in Section 7.2. Photographs of the Site are presented in Section 7.2.1.

7.1 METHODOLOGY AND LIMITING CONDITIONS

To observe current Site conditions (readily observable environmental conditions indicative of a significant release of hazardous materials), Cornerstone staff Stason I. Foster, P.E. visited the Site on March 6, 2013, and was accompanied by Mr. Jose Diaz, Facilities Manager with SNJM. Cornerstone staff only observed those areas that were reasonably accessible, safe, and did not require movement of equipment, materials or other objects. Our reconnaissance focused on areas where hazardous materials may be used or stored; the interiors of residential spaces were not observed.

7.2 OBSERVATIONS

At the time of our visit, the Site was occupied by the SNJM Convent and Care Center, which reportedly is home to approximately 66 retired and/or infirmed Sisters. In general, the Site conditions were similar to those observed during our 2011 Site visit. The facility was observed to consist of two main three-story buildings (Marian and Siena Buildings), along with several other ancillary structures and the Regional Office; the main structures are depicted on Figure 2.

The Marian and Siena Buildings were observed to be used mainly as offices, a residential dormitory and a care/nursing center. Each of these buildings contained a boiler room with natural gas fuel boilers that supply heat and hot water to the buildings. An elevator also was present in each of the buildings. The hydraulic equipment rooms associated with each elevator were observed. No hydraulic fluid leaks were readily apparent, and Mr. Diaz indicated that he was not aware of any maintenance problems with the elevators that would be indicative of leaks. A kitchen, laundry room and a facility maintenance room were observed on the ground floor of the Marian Building. The maintenance room contained various tools and supplies; hazardous materials were observed to be stored in metal cabinets and consisted mainly of common building maintenance products including paints, adhesives, caulking compounds, lubricants and cleaning supplies. These materials were typically stored in retail containers with capacities of one gallon or less. Janitorial storage areas also were observed in each of the buildings; typical janitorial cleaning products were observed to be stored on shelving. The hazardous materials storage areas appeared orderly. No evidence of significant hazardous materials spills was readily apparent within the facility maintenance area or janitorial areas. Nursing staff at the care center within the Marian building indicated that small quantities of medical waste are generated and shipped off-Site to a licensed disposal facility. Excess prescription medications reportedly are collected and returned to the pharmaceutical supplier for appropriate disposal.

A diesel powered emergency generator was observed within a fenced enclosure on a concrete pad on the north side of the Marian Building. Diesel fuel was observed to be stored in an integral above ground storage tank. A 55-gallon drum of diesel fuel within a secondary containment enclosure also was present adjacent to the generator. No evidence of leaks or spills was readily apparent. During our prior visit, Sister Kathryn indicated that a gasoline UST was formerly located in the area of the current generator. The UST reportedly was used to fuel vehicles and was removed during the 1990s.

A pump house structure was observed near the Site entrance to the northeast of the Siena Building. The pump house contained a water tank and electric pumps used to increase the pressure of potable water supplied to the Site. Mr. Diaz indicated that there are no wells on-Site. He also noted that the on-Site structures are connected to the public sanitary sewer system and that he is not aware of any on-Site septic systems.

A wooden deck was observed on a raised pedestal foundation constructed of concrete located to the west of the Siena Building (see Figure 2). During our prior visit, Sister Kathryn indicated that a water tank had formerly been supported by the foundation. The interior of the pedestal foundation formed a small tool storage room that was accessed by a wooden door. A small glass greenhouse on a concrete pad was observed adjacent to the former water tank structure; several potted flowers and other plants were observed within the greenhouse. Several terraced planter beds also were observed on-Site. During our prior visit, Sister Kathryn indicated that the greenhouse and planter beds were used by residents of the Site for gardening and growing flowers, and that pesticides were typically not used. We observed small retail size packages of

fertilizers, and pest and weed control products within the greenhouse, and in the storage room within the water tank foundation. The products and quantities appeared similar to those that are common in residential settings.

A storage area in the Cortona Building was observed to be used for storage of landscape maintenance equipment. Metal hazardous materials storage cabinets were observed to contain empty gasoline cans and a few packages of garden fertilizer and slug control products. Mr. Diaz indicated that landscaping services were formerly performed by on-Site staff, but are now performed by an outside contractor.

Table 6. Summary of Readily Observable Site Features

General Observation	Comments
Aboveground Storage Tanks	Diesel storage AST associated with generator
Agricultural Wells	Not Observed
Air Emission Control Systems	Not Observed
Boilers	Observed as described above
Burning Areas	Not Observed
Chemical Mixing Areas	Not Observed
Chemical Storage Areas	Observed as described above
Clean Rooms	Not Observed
Drainage Ditches	Not Observed
Elevators	Observed as described above
Emergency Generators	Observed as described above
Equipment Maintenance Areas	Not Observed
Fill Placement	Not Observed
Ground Water Monitoring Wells	Not Observed
High Power Transmission Lines	Not Observed
Hoods and Ducting	Not Observed
Hydraulic Lifts	Not Observed
Incinerator	Not Observed
Petroleum Pipelines	Not Observed
Petroleum Wells	Not Observed
Ponds or Streams	Not Observed
Railroad Lines	Not Observed
Row Crops or Orchards	Not Observed
Stockpiles of Soil or Debris	Not Observed
Sumps or Clarifiers	Not Observed
Transformers	Not Observed
Underground Storage Tanks	Not Observed
Vehicle Maintenance Areas	Not Observed
Vehicle Wash Areas	Not Observed
Wastewater Neutralization Systems	Not Observed

The comment “Not Observed” does not warrant that these features are not present on-Site; it only indicates that these features were not readily observed during the Site visit.

7.2.1 Site Photographs

Photograph 1. View of the Marian Building looking northeast.

Photograph 2. View of the Cortona Building looking southwest.

Photograph 3. View of the Seraphine Building (left) and Regional Office (right).

Photograph 4. Pump House

Photograph 5. Former water tank foundation.

Photograph 6. Glass greenhouse.

Photograph 7. Terraced planter beds.

Photograph 8. Emergency generator and diesel storage drum (at left).

Photograph 9. Janitorial and kitchen supply storage area (Marian Building).

Photograph 10. Facility maintenance supply storage area (Marian Building).

Photograph 11. Interior of care facility within Marian Building.

SECTION 8: INTERVIEWS

8.1 OWNER INTERVIEWS/ENVIRONMENTAL QUESTIONNAIRE

To help obtain information on current and historical Site use and use/storage of hazardous materials on-Site, we provided an environmental questionnaire to the Site owner (SNJM) during our 2011 Phase I ESA and during this study. A copy of the completed questionnaires are attached in Appendix F. Based on our review of the completed questionnaires, SNJM purchased the three Site parcels between 1945 and 1950. During our prior Site visit, Sister Kathryn indicated that the parcels were used for residential purposes at the time they were acquired. Reported hazardous materials use involves mainly cleaning products and diesel fuel associated with a generator. The remaining information presented on the questionnaire appears consistent with that observed during our Site visit as discussed in Section 7.2.

8.2 INTERVIEWS WITH PREVIOUS OWNERS AND OCCUPANTS

Contact information for previous Site owners and occupants was not provided to us. Therefore, interviews with previous Site owners and occupants could not be performed.

SECTION 9: CONCLUSIONS (FINDINGS) AND RECOMMENDATIONS

Cornerstone performed this Phase I ESA to support SNJM in evaluation of Recognized Environmental Conditions. Our conclusions and recommendations are summarized below.

9.1 HISTORICAL SITE USAGE

Based on the information obtained during this study, the Site appears to have historically been occupied by orchards with several widely spaced houses. The Site parcel was acquired by SNJM between 1945 and 1950 for use as a convent. The Marian and Siena Buildings (the largest two buildings at the convent) appear to have been constructed in approximately 1950 and have been used for residential/dormitory purposes, as a Montessori school/daycare facility and for office space. The upper two floors of the Marian Building currently are used as a long term care facility for infirmed sisters. The other on-Site buildings are used mainly for storage purposes; offices are present within the Provincial Office Building.

9.2 CHEMICAL STORAGE AND USE

Chemical storage and use at the Site was observed to consist mainly of building maintenance supplies, janitorial supplies, gardening products, hydraulic oil within elevators, and diesel fuel within an emergency generator. Hazardous materials storage areas were observed to be orderly and no evidence of significant hazardous materials spills or leaks was readily apparent. These materials are not likely to significantly impact soil or ground water quality beneath the Site provided that they are used in accordance with the manufacturer's instructions.

A 2,000 gallon gasoline UST reportedly was installed at the Site in 1977 and used to fuel cars owned by the Sisters of the Holy Names. The UST and associated piping were removed in 1994 under the oversight of the Santa Clara County Central Fire Protection District (County Fire). The UST removal report (All Chem, 1994) was submitted to County Fire and states that no indications of leakage were observed during the UST removal. Two soil samples were collected from native soil approximately 2 feet below the bottom of the UST and analyzed for TPHg and BTEX compounds; these analytes were not detected. The soil samples were collected under the observation of the County Fire inspector. Base on the data reviewed, the former UST does not appear to have significantly impacted the Site and no further work appears to have been required.

9.3 AGRICULTURAL USE

The Site was historically used for agricultural purposes (orchards) until the mid 1940s when SNJM occupied the Site for use as a convent. Pesticides may have been applied to crops in the normal course of farming operations.

Organochlorine pesticides were first introduced into California agriculture in 1944 and reached peak usage in the 1960s (DTSC, 2008). In 1974 the use of the organochlorine pesticide DDT was banned for agricultural purposes, and the elimination of remaining organochlorine pesticides in California agriculture quickly followed. Some studies have shown a lower likelihood of occurrence of significant soil concentrations of organochlorine pesticides at agricultural properties that terminated farming operations prior to the early 1950s (DTSC, 2008), similar to the study Site. The use of arsenical pesticides, however, pre-dates the 1950s and may have been applied.

We recommend that soil sampling and laboratory analyses be performed to evaluate residual pesticide concentrations, if any, and potential health risks to on-Site residents.

9.4 ASBESTOS CONTAINING BUILDING MATERIALS (ACBMS)

Due to the age of the on-Site structures, building materials may contain asbestos. If demolition, renovation, or re-roofing of the building is planned, an asbestos survey is required by local authorities and/or National Emissions Standards for Hazardous Air Pollutants (NESHAP) guidelines. NESHAP guidelines require the removal of potentially friable ACBMs prior to building demolition or renovation that may disturb the ACBM.

9.5 LEAD-BASED PAINT

The Consumer Product Safety Commission banned the use of lead as an additive in paint in 1978. Based on the age of the building, lead-based paint may be present. If demolition is planned, the removal of lead-based paint isn't required if it is bonded to the building materials. However, if the lead-based paint is flaking, peeling, or blistering, it should be removed prior to demolition. In either case, applicable OSHA regulations must be followed; these include requirements for worker training, air monitoring and dust control, among others. Any debris or soil containing lead must be disposed appropriately.

9.6 PEST CONTROL NEAR STRUCTURES

Soil near wood framed structures can be impacted by pesticides historically used to control termites. The extent of impact, if any, is typically limited to the upper few feet of soil near the perimeter of the structures and/or in crawl spaces.

No readily available information was obtained during this study indicating that pesticides were sprayed near structures for pest control purposes; however, if a higher level of comfort is desired, we recommend soil sampling near building foundations to evaluate soil quality.

9.7 NATURALLY OCCURRING ASBESTOS

Asbestos occurs naturally in ultramafic rock including Franciscan Complex Mélange which may be present near the western Site boundary. When this material is disturbed in connection with construction, grading, quarrying or surface mining operations, asbestos-containing dust can be generated. Exposure to asbestos can result in health ailments.

For construction and grading projects that will disturb 1 acre or less, the Asbestos Airborne Toxic Control Measure (ATCM) requires specific actions to minimize dust emissions, such as vehicle speed limitations, application of water prior to and during the ground disturbance, keeping storage piles wet or covered, and track-out prevention and removal. Construction projects that will disturb more than 1 acre must obtain Bay Area Air Quality Management District approval of an asbestos dust mitigation plan. The plan must specify how the operation will minimize emissions and must address emissions sources. Regardless of the size of disturbance, activities must not result in emissions that are visible in crossing the property line.

Exemptions are provided for homeowners and tenants working on their own residential property and agricultural operations and timber harvesting except for the construction of roads and structures in connection with agricultural and timber operations. In addition, districts may grant an exemption under any of the following conditions: 1) if a geological evaluation demonstrates

that ultramafic rock is not likely to be found; 2) for road construction and maintenance activities in a remote location; or 3) for the processing of rock from an alluvial deposit.

Once conceptual development plans are established, we recommend a Registered Geologist review these plans to evaluate if ultramafic outcrops may be disturbed during construction and grading.

9.8 POTENTIAL ENVIRONMENTAL CONCERNS WITHIN THE SITE VICINITY

Based on the information obtained during this study, no hazardous material incidents have been reported in the Site vicinity that would likely significantly impact the Site.

9.9 DATA GAPS

ASTM Standard Designation E 1527-05 requires the environmental professional to comment on significant data gaps that affect our ability to identify Recognized Environmental Conditions. A data gap is a lack of or inability to obtain information required by ASTM Standard Designation E 1527-05 despite good faith efforts by the environmental professional to gather such information. A data gap by itself is not inherently significant; it only becomes significant if it raises reasonable concerns. The following data gaps were identified:

- Contact information for the former occupants and owners of the Site was not provided to us; thus, former occupants and owners were not interviewed during this study. The Site history appears to have been established based on information obtained from other data sources; thus, this data gap is not considered to be significant.

9.10 DATA FAILURES

As described by ASTM Standard Designation E 1527-05, a data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Data failures are not uncommon when attempting to identify the use of a Site at five year intervals back to the first use or to 1940 (whichever is earlier). ASTM Standard Designation E 1527-05 requires the environmental professional to comment on the significance of data failures and whether the data failure affects our ability to identify Recognized Environmental Conditions. A data failure by itself is not inherently significant; it only becomes significant if it raises reasonable concerns. No significant data failures were identified during this Phase I ESA.

9.11 RECOGNIZED ENVIRONMENTAL CONDITIONS

Cornerstone has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM E 1527-05 of 100 and 200 Prosect Avenue, Los Gatos, California. This assessment identified the following Recognized Environmental Conditions; however, please read the entire report for an overview of the Site.

- Residual concentrations of pesticides may be present in soil at portions of the Site where it appears agricultural activity may have occurred, and near structures if spraying for pest control purposes was previously performed.

SECTION 10: LIMITATIONS

Cornerstone performed this Phase I ESA to support SNJM in evaluation of Recognized Environmental Conditions associated with the Site. SNJM understands that no Phase I ESA can wholly eliminate uncertainty regarding the potential for Recognized Environmental Conditions to be present at the Site. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for Recognized Environmental Conditions. SNJM understands that the extent of information obtained is based on the reasonable limits of time and budgetary constraints.

Conclusions presented in this report are based on selected, readily available information and conditions readily observed at the time of the Site visit. Phase I ESAs are inherently limited because findings are developed based on information obtained from a non-intrusive Site evaluation. Cornerstone does not accept liability for deficiencies, errors, or misstatements that have resulted from inaccuracies in the publicly available information or from interviews of persons knowledgeable of Site use. In addition, publicly available information and field observations often cannot affirm the presence of Recognized Environmental Conditions; there is a possibility that such conditions exist. If a greater degree of confidence is desired, soil, ground water and/or soil vapor samples should be collected by Cornerstone and analyzed by a state-certified laboratory to establish a more reliable assessment of environmental conditions.

Cornerstone acquired an environmental database of selected publicly available information for the general area of the Site. Cornerstone cannot verify the accuracy or completeness of the database report, nor is Cornerstone obligated to identify mistakes or insufficiencies in the information provided (ASTM E 1527-05, Section 8.1.3). Due to inadequate address information, the environmental database may have mapped several facilities inaccurately or could not map the facilities. Releases from these facilities, if nearby, could impact the Site.

SNJM may have provided Cornerstone environmental documents prepared by others. SNJM understands that Cornerstone reviewed and relied on the information presented in these reports and cannot be responsible for their accuracy.

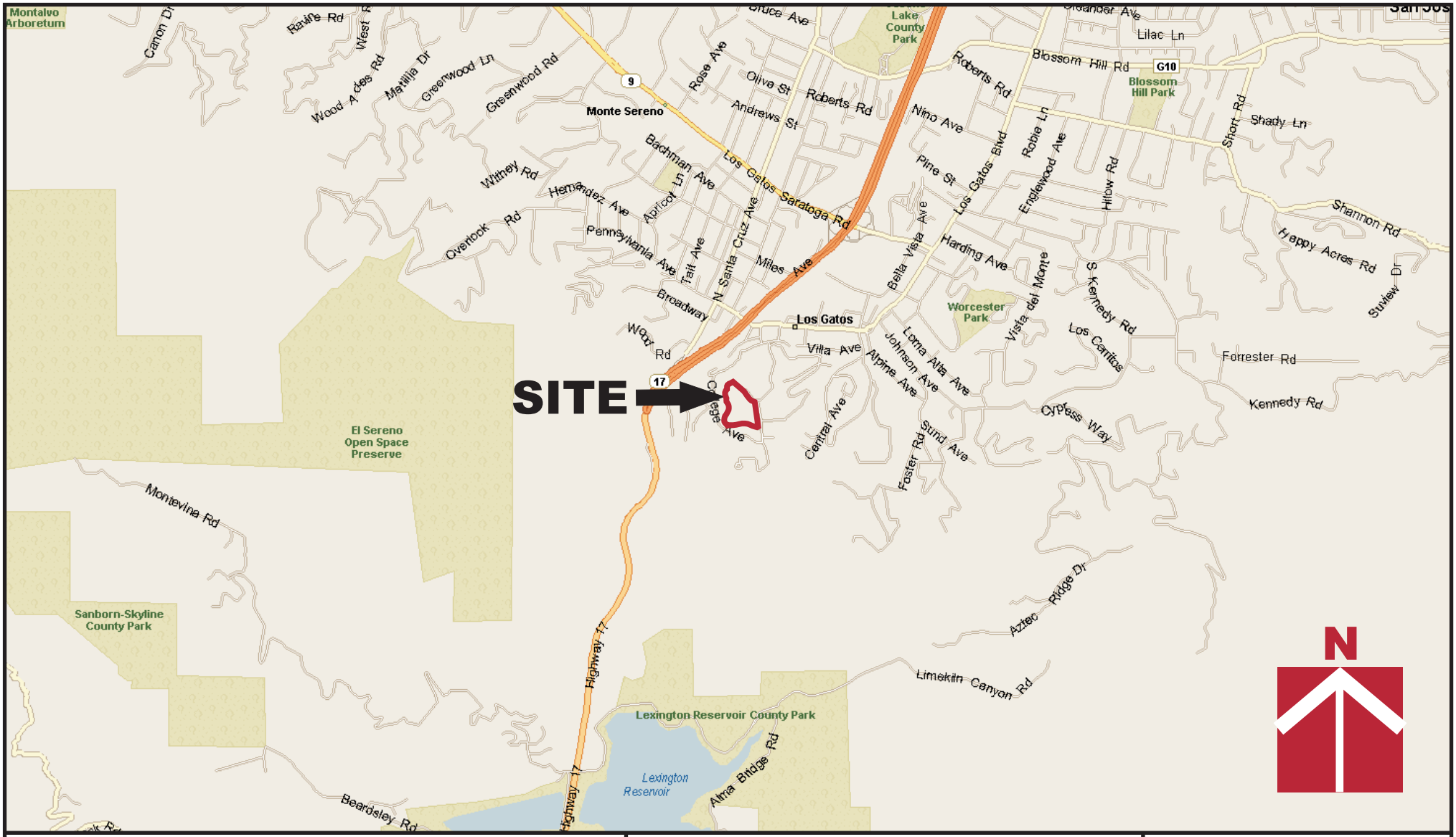
This report, an instrument of professional service, was prepared for the sole use of SNJM and may not be reproduced or distributed without written authorization from Cornerstone. It is valid for 180 days. An electronic transmission of this report may also have been issued. While Cornerstone has taken precautions to produce a complete and secure electronic transmission, please check the electronic transmission against the hard copy version for conformity. Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

SECTION 11: REFERENCES

Cornerstone Earth Group, 2011a. *Phase I Environmental Site Assessment, 100 and 200 Prospect Avenue, Los Gatos, California,* dated March 25, 2011.

Cornerstone Earth Group, 2011b. *Feasibility Geologic and Geotechnical Hazards Evaluation, Sisters of the Holy Name of Jesus and Mary, 100 and 200 Prospect Avenue, Los Gatos, California,* dated March 25, 2011, updated March 27, 2013.

Department of Toxic Substances Control, 2008. *Interim Guidance for Sampling Agricultural Properties (Third Revision), California Department of Toxic Substances Control, California Environmental Protection Agency*, dated August 7, 2008.

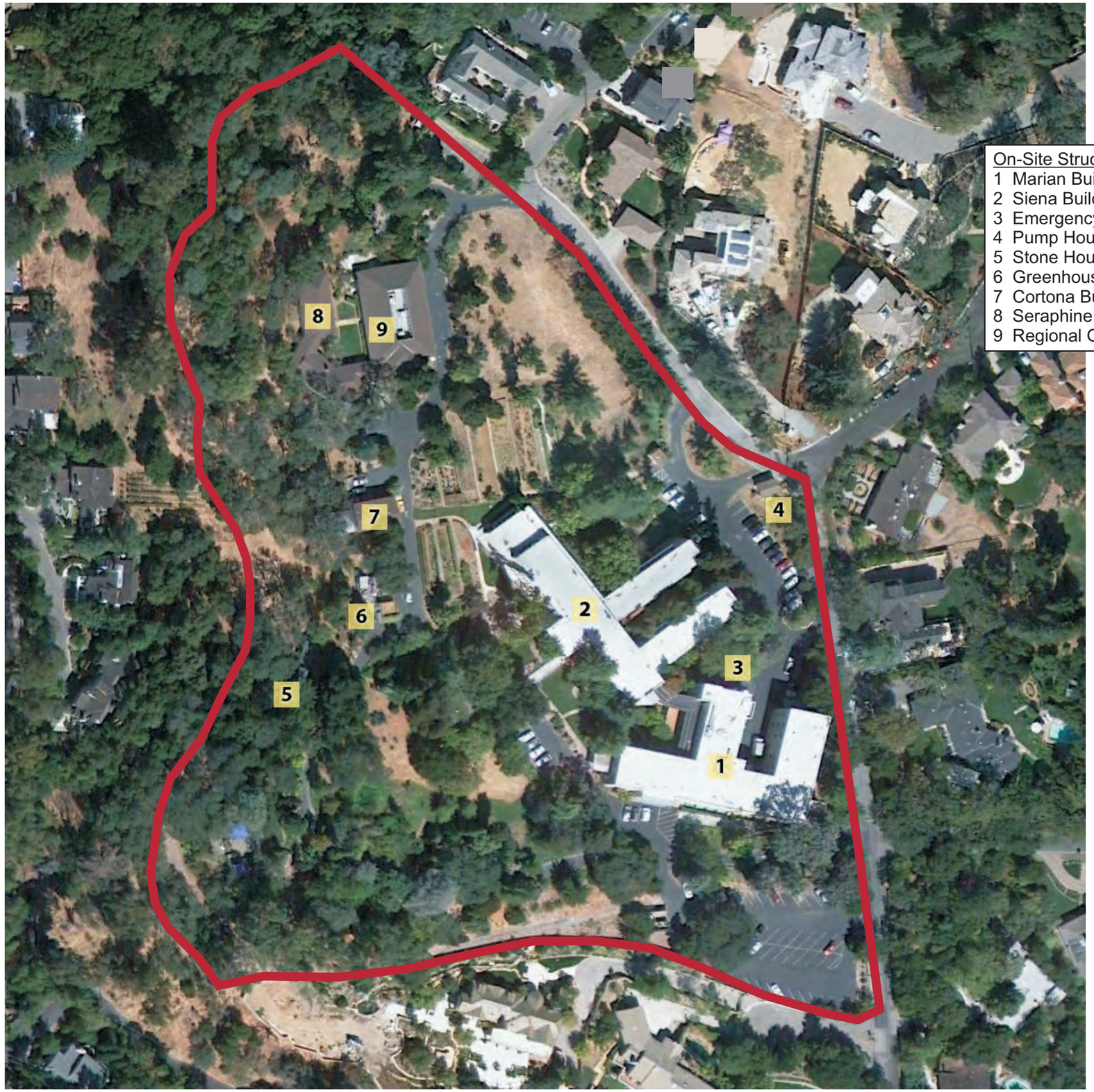


CORNERSTONE EARTH GROUP

Vicinity Map

Sisters of the Holy Names
of Jesus and Mary
100 and 200 Prospect Avenue
Los Gatos, CA

Project Number	440-1-5
Figure Number	Figure 1
Date	March 2013
Drawn By	MGV, RRN



On-Site Structures and other Features

1 Marian Building
2 Siena Building
3 Emergency Generator Location (Former UST Location)
4 Pump House
5 Stone House
6 Greenhouse and Water Tank Foundation
7 Cortona Building
8 Seraphine Building
9 Regional Office

Approximate Site Boundary

N

0 100 200

APPROXIMATE SCALE (FEET)

Site Plan

Sisters of the Holy Names of Jesus and Mary
100 Prospect Avenue
Los Gatos, CA

Project Number	440-1-5
Figure Number	Figure 2
Date	March 2013
Drawn By	MGV, RRN

CORNERSTONE EARTH GROUP

CORNERSTONE EARTH GROUP

APPENDIX A – TERMS AND CONDITIONS

CORNERSTONE EARTH GROUP, INC.
TERMS AND CONDITIONS

1. Agreement

1.1 Cornerstone Earth Group, Inc.'s ("Cornerstone") services are defined by and limited to (a) those services (the "Work") described in the attached proposal, which is incorporated herein by this reference, and (b) these Terms and Conditions of Agreement ("Terms and Conditions"). Together, the proposal and Terms and Conditions form the "Agreement." This Agreement represents the entire agreement between the Client and Cornerstone (collectively, the "Parties") and supersedes all prior negotiations, representations, or agreements, either written or oral. The Agreement can only be amended by a written instrument signed by both the Client and Cornerstone. In the event that the Client authorizes the Work by means of a purchase order or other writing ("Confirmation"), it is expressly agreed that these Terms and Conditions shall apply, and any terms, conditions or provisions appearing in the Confirmation are void and inapplicable except to the extent the Confirmation authorizes the Work and binds the Client to this Agreement.

1.2. Failure to immediately enforce any provision in this Agreement shall not constitute a waiver of the right to enforce that provision or any other provision. No waiver by the Parties of a breach of any term or covenant contained in this Agreement, whether by conduct or otherwise, in any one or more instances shall be deemed to be or construed as a further or continuing waiver of any such breach or as a waiver of a breach of any other term or covenant in this Agreement.

2. Scope of Services

2.1 Cornerstone will serve the Client by providing professional counsel and technical advice based on information furnished by the Client. The Client will make available to Cornerstone all known information regarding existing and proposed conditions of the site, and will immediately transmit any new information that becomes available or any change in plans. The Client and Cornerstone agree that Cornerstone, its officers, directors, employees, agents and/or subcontractors shall not be liable for any claims, damages, costs, or losses arising from or in any way related to conditions not actually encountered during the course of Cornerstone's Work and Cornerstone shall not have any liability or responsibility for losses resulting from inaccurate or incomplete information supplied by the Client, and the Client agrees to defend and indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors against claims, damages, costs or losses arising therefrom. Cornerstone, its officers, directors, employees, agents and/or subcontractors shall not be liable for failing to discover any condition the discovery of which would reasonably require the performance of services not authorized by the Client.

3. Terms of Payment

3.1 The Client's obligation to pay for the Work is in no way dependent upon the Client's ability to obtain financing. The Client's obligation to pay for the Work is in no way dependent upon the Client's successful completion of the Client's project. No provision of this Agreement shall be construed to constitute a "Pay-When-Paid" clause or a "Pay-If-Paid" clause.

3.2 Payment for the Work shall be due and payable upon receipt of Cornerstone's invoice. To be recognized, any dispute over charges must be claimed in writing within thirty (30) calendar days of the billing date. Any dispute over an invoice amount shall not affect the Client's obligation to pay invoice amounts not in dispute. Amounts unpaid thirty (30) calendar days after the issue date of Cornerstone's invoice shall be assessed a service charge of 1 percent per month on balances outstanding.

3.3 Timely payment is a substantial condition of the Client's performance under this Agreement. Cornerstone may at its option withhold delivery of reports or other work product or suspend performance of the Work pending receipt of payments for all past due invoices and Cornerstone, its officers, directors, employees, agents and/or subcontractors shall have no liability to the Client for delay or damage caused because of such withholding or suspension. In the event that Cornerstone must take legal action to enforce this Agreement for payment for the Work performed and Cornerstone prevails, Cornerstone will be reimbursed by the Client for all expenses, including but not limited to reasonable attorney's fees and litigation costs.

4. Standard of Care

4.1 While performing the Work under this Agreement, Cornerstone shall exercise the degree of care and skill ordinarily exercised under similar circumstances by members of the environmental and geotechnical engineering consulting professions, as applicable, performing the kind of services to be performed hereunder and practicing in the same or similar locality at the same period of time.

4.2 Except for the express promise set forth in Subsection 4.1 herein, Cornerstone neither makes, nor offers, nor shall Cornerstone be liable to the Client for any express or implied warranties with respect to the performance of the Work.

5. Force Majeure

5.1 Cornerstone will diligently proceed with its services and will complete the Work in a timely manner, but it is expressly agreed to and understood by the Client that Cornerstone shall not be held responsible for delays occasioned by factors beyond its control, nor by factors which could not reasonably have been foreseen at the time of the execution of the Agreement between the parties.

5.2 Except for the obligation to pay for the Work performed and expenses incurred, neither Cornerstone nor the Client shall be liable for its failure to perform hereunder, in whole or in part, due to contingencies beyond its reasonable control, included, but not limited to, strikes or other concerted acts of workmen not in Cornerstone's employ, whether direct or indirect, riots, war, acts of terrorism, fire, floods, storms, washouts, acts of God or the public enemy, explosions, accidents, epidemics, breakdowns, injunctions, compliance with any law, regulation or order, whether valid or invalid, of the United States of America or any governmental body or any instrumentality thereof, whether now existing or hereafter created.

6. Effect of Delay or Impediment to Work

6.1 If any event occurs which causes or may cause Cornerstone: (a) to be impeded in its performance of the Services; or (b) to be delayed in the completion of the Work within the time provided in the attached proposal and/or in an applicable Change Order due to any act or omission of the Client, its officers, directors, employees and agents, or the Client's contractors, or due to any contingency beyond Cornerstone's control as provided in Section 5 herein, Cornerstone shall notify the Client in writing within ten (10) business days of the date on which Cornerstone becomes aware of such event.

6.2 The Client shall notify Cornerstone in writing of the Client's agreement or disagreement with Cornerstone's claim of an impediment or delay to performance within five (5) business days after receipt of Cornerstone's notice under Subsection 6.1. If the Client agrees with Cornerstone's claim, the time for performance of such requirement may be extended as mutually agreed in writing by the parties as provided in Subsection 1.1. If the Client disputes Cornerstone's assertion of an impediment or delay, such dispute shall be resolved pursuant to Section 17.

6.3 Impediments or delays to performance, addressed pursuant to this Section, shall not (a) constitute a breach hereunder; (b) give rise to any special right to terminate this Agreement; or (c) give rise to a claim by the Client for damages or other relief, if and to the extent that such impediment or delay is due to any act or omission of the Client, its officers, directors, employees and agents, or the Client's contractors, or due to any contingency beyond Cornerstone's control as provided in Section 5.

7. Right of Entry

7.1 Unless otherwise agreed in writing, the Client shall furnish and/or secure right of entry to the Site described in the proposal for Cornerstone personnel and equipment in order for Cornerstone to perform the Work. The Client shall waive any claim against Cornerstone, its officers, directors, employees, agents and/or subcontractors and agree to defend and indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors from any claims arising from entry onto the Site which is the subject of the Work.

7.2 The Parties acknowledge and agree that although Cornerstone will take reasonable precautions to minimize damage to property, including landscapes, hardscapes, crops and underground utilities, any and all damages, losses or expenses which could result from damage to such property due to Cornerstone's performance of the Work under this Agreement shall be the sole and exclusive responsibility of the Client provided that such damages, losses or expenses are not the result of Cornerstone's breach of the standard of care set forth in Subsection 4.1 herein. The Client shall indemnify, defend and hold harmless Cornerstone, its officers, directors, employees, agents and/or subcontractors from any damages, losses or expenses including, without limitation, attorney's fees, sustained or incurred by Cornerstone, its officers, directors, employees, agents and/or subcontractors as a result of any and all claims arising out of any damage to subsurface utilities due to Cornerstone's performance of the Work under this Agreement, provided that such claims are not the result of Cornerstone's breach of the standard of care set forth in Subsection 4.1 herein.

8. Monitoring of Construction

8.1 The Client acknowledges and understands that unanticipated or changed conditions may be encountered during construction. There is a substantial risk to the Client and to Cornerstone if Cornerstone is not engaged to provide complete services, including but not limited to, construction observation services. Such risks include the increased likelihood of misinterpretation of Cornerstone's findings and conclusions and error in implementing recommendations by Cornerstone. If Client fails to retain Cornerstone to provide complete services, the Client agrees, notwithstanding any other provisions of this Agreement, to the fullest extent permitted by law, to indemnify and hold harmless Cornerstone, its officers, partners, employees and Cornerstones from and against any and all claims, suits, demands, liabilities, losses, damages or costs, including reasonable attorneys' fees and defense costs arising out of or in any way connected with the Work or arising out of implementing or interpreting Cornerstone's work product except when the Claim arises from the sole negligence of Cornerstone or where the Claim arises from the willful, wanton or reckless conduct of Cornerstone.

8.2 Cornerstone shall not be required to make exhaustive or continuous on-site observations to check the quality or quantity of the Work and shall not be responsible for any contractor's failure to carry out the work in accordance with the contract documents.

8.3 Cornerstone shall not be responsible for the acts or omissions of any contractor or subcontractor or any of the contractors' or subcontractors' agents or employees or other persons performing any work on the Project.

9. Changed Conditions

9.1 If, during the term of this Agreement, circumstances or conditions that were not originally contemplated by or known to Cornerstone are revealed, to the extent that they affect the scope of services, compensation, schedule, allocation of risks or other material terms of this Agreement, Cornerstone may call for renegotiation of appropriate portions of this Agreement. Cornerstone shall notify the Client of the changed conditions necessitating renegotiation, and Cornerstone and the Client shall promptly and in good faith enter into renegotiation of this Agreement to address the changed conditions. If terms cannot be agreed to, the parties agree that either party has the absolute right to terminate this Agreement, in accordance with the termination provision hereof.

10. Jobsite Safety

10.1 Neither the professional activities of Cornerstone nor the presence of Cornerstone or its employees, subconsultants and subcontractors shall relieve the Client or the Client's General Contractor of its obligations, duties and responsibilities, including, but not limited to, health and safety programs. Cornerstone and its personnel have no authority to exercise any control over the site or any construction contractor or its employees in connection with their work or any health or safety programs or procedures. The Client acknowledges and agrees that Cornerstone shall not be responsible for jobsite safety.

11. Hazardous Materials and Environmental Contamination

11.1 The Client hereby warrants that if it knows or has any reason to assume or suspect that hazardous or toxic substances, or any other type of environmental hazard, contamination or pollution may exist at the Site, the Client will immediately inform Cornerstone to the best of the Client's knowledge of such hazardous or toxic substances, environmental hazard, contamination or pollution's type, quantity and location.

11.2 Cornerstone, its officers, directors, employees, agents and/or subcontractors shall have no title to, ownership of, or legal responsibility and/or liability for any and all contamination at the Site, including, but not limited to, the groundwater thereunder. "Contamination at the Site" includes but is not limited to any hazardous or toxic substance, or any other type of environmental hazard, contamination or pollution present at or under the Site, including, but not limited to the ground water thereunder, which is not brought onto the Site by Cornerstone, its officers, directors, employees, agents and/or subcontractors.

11.3 Cornerstone and the Client agree that the discovery of unanticipated Contamination at the Site may constitute a changed condition mandating renegotiation and/or termination of this Agreement. Cornerstone and the Client agree that the discovery of unanticipated Contamination at the Site may make it necessary for Cornerstone to take immediate measures to protect the public health, safety and the environment. The Client agrees that Cornerstone may take any or all measures that in Cornerstone's professional opinion are justified to preserve and protect the health and safety of Cornerstone's personnel, the public and the environment, and the Client agrees to compensate Cornerstone for the cost of such services.

11.4 The Client agrees to indemnify, defend and hold harmless Cornerstone, its officers, directors, employees, agents and/or subcontractors from any and all damages, losses or expenses, including, but not limited to, reasonable attorney's fees and legal costs connected therewith, liabilities, penalties and fines sustained by Cornerstone, its officers, directors, employees, agents and/or subcontractors as a result of any and all claim with respect to and arising out of any and all Contamination at the Site, provided that such claims are not the result of Cornerstone's breach of the standard of care set forth in Subsection 4.1 herein.

11.5 Subsurface sampling may result in unavoidable contamination of certain subsurface areas, as when a probe or boring is advanced or drilled through a contaminated area into a clean soil or water-bearing zone. Because of the risks posed by such work, and because subsurface sampling is often a necessary part of Cornerstone's Work, the Client hereby agrees to waive all claims against Cornerstone, its officers, directors, employees, agents and/or subcontractors with respect to and arising out of any and all subsurface sampling, including but not limited to claims relating to cross-contamination occurring because of such subsurface sampling, provided that such claims are not the result of Cornerstone's breach of the standard of care set forth in Subsection 4.1 herein.

12. Disposal of Samples and Drill Cuttings

12.1 Unless mutually agreed in writing by the Parties as provided in Subsection 1.1 herein, Cornerstone shall hold samples collected during the performance of the Work no longer than thirty (30) calendar days after their date of collection. Drill cuttings will be left on-Site. In the event that soil, rock, water, drill cuttings and/or other samples or materials are contaminated or are suspected to contain hazardous materials or other toxic substances hazardous or detrimental to public health, safety or the environment as defined by federal, state or local law, Cornerstone will, after completion of testing, notify the Client of the same in order for the Client to arrange for the disposal of the samples and/or materials. The Client recognizes and agrees that Cornerstone at no time assumes title to said samples and/or materials, and that the Client is responsible for the disposal of such samples and/or materials. The Client agrees to pay all costs associated with any storage, transport and/or disposal of samples and/or materials, and to defend and indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors from any and all claims arising out of or in any way related to the storage, transport and/or disposal of asbestos, hazardous or toxic substances, and/or pollutants, including but not limited to any samples and/or materials.

13. Use and Ownership of Documents

13.1 All reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents and instruments prepared by Cornerstone as instruments of service shall remain the property of Cornerstone. Cornerstone shall retain all common law, statutory and other reserved rights, including copyright thereto. In the event the Client, the Client's contractors or subcontractors, or anyone for whom the Client is legally liable makes or permits to be made any changes to reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents prepared by Cornerstone without obtaining Cornerstone's prior written consent, the Client shall assume full responsibility for the results of such changes. Therefore, the Client agrees to waive any claim against Cornerstone and to release Cornerstone from any liability arising directly or indirectly from such changes. In addition, the Client agrees, to the

fullest extent permitted by law, to indemnify and hold harmless Cornerstone from any damages, liabilities or costs, including reasonable attorney's fees and costs of defense, arising from such changes.

The Client agrees that all reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents and other services furnished to the Client or its agents and/or employees by Cornerstone, which are not paid for, shall be immediately returned upon demand and may not be used by the Client for any purpose. Any reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents, advice or opinions provided by Cornerstone to the Client as part of the Work are provided for the sole and exclusive use of the Client for specific application to the Site detailed in this Agreement. Any third party use of any drafts, reports, letters, plans, figures, specifications, computer files, field data, logs, notes and other documents, advice or opinion of Cornerstone is the sole responsibility of the Client.

14. Insurance

14.1 Cornerstone, its officers, directors, employees and agents have and shall maintain during the term of this Agreement insurance in the following types: (a) Worker's Compensation Insurance; (b) Employer's Liability Insurance; (c) Commercial General Liability Insurance (GLI); and (d) Professional Liability Insurance.

14.2 Cornerstone shall, at the Client's request, provide the Client with a certificate of insurance or other satisfactory evidence that such insurance has been obtained and are maintained in force through the term of this Agreement. Any additional insurance policy or increase in the coverage of existing insurance required by the Client shall constitute an additional expense under this Agreement, and the Client shall reimburse Cornerstone for any additional premiums and costs incurred by Cornerstone in connection with obtaining such additional insurance.

15. Prevailing Wage Obligations

15.1 The Client shall notify Cornerstone in writing if the Work contemplated by this Agreement constitutes a "public work" under any and all federal, state and/or local prevailing wage laws, and/or living wage laws, including but not limited to the Davis-Bacon Act and the provisions of California Labor Code §§ 1720 *et seq.* In addition, the Client shall notify Cornerstone if Cornerstone is obligated by statute, any public contracting authority and/or a developer to pay prevailing wages and benefits and/or any predetermined wages or benefits (collectively, "prevailing wage obligations"). In the event that Cornerstone must adhere to federal, state and/or local prevailing wage obligations for the Work performed, the Client shall provide Cornerstone with any and all prevailing wage determinations applicable to the Work to be performed under this Agreement. Any prevailing wage obligations might affect the payment terms contemplated by this Agreement and thus constitute a changed condition mandating renegotiation and/or termination of this Agreement. The Client understands and agrees that Cornerstone will rely on the representations made by the Client with regard to prevailing wage obligations and the Client agrees to indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors against any and all claims, liabilities, suits, demands, losses, costs and expenses, including but not limited to reasonable attorney's fees and legal costs, arising from Cornerstone's reliance upon the Client's representations regarding prevailing wage obligations.

16. Limitations—THIS CLAUSE LIMITS CORNERSTONE'S LIABILITY

16.1 Cornerstone shall not be responsible for the validity or accuracy of data collected by others or for interpretations made by others.

16.2 Cornerstone's relationship with the Client under this Agreement shall be that of an independent contractor. Nothing in this Agreement shall be construed to designate Cornerstone, its officers, directors, employees, agents and/or subcontractors as employees, agents, joint ventures or partners of the Client. Cornerstone shall have no authority to bind, commit or obligate the Client in any manner and shall not hold itself out to third parties as being capable of doing so.

16.3 The Client and Cornerstone have discussed the risks and rewards associated with this project, as well as Cornerstone's fee for services. After negotiation, the Client and Cornerstone have expressly agreed to allocate certain of the risks so that, to the fullest extent permitted by law, the total aggregate liability of Cornerstone, its officers, directors, employees, agents and subcontractors to the Client and all third-parties is limited to $50,000 or the amount of Cornerstone's fee, whichever is greater, for any and all injuries, damages, claims, losses, expenses, or claim expenses (including attorney's fees) arising out of this Agreement from any cause or causes. Such causes include but are not limited to Cornerstone's negligence, errors, omissions, strict liability, breach of contract or breach of warranty. In no event shall Cornerstone, its officers, directors, employees, agents and/or subcontractors be liable in contract, tort, strict liability, warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to delay, disruption, loss of product, loss of anticipated profits or revenue, loss of use of any equipment or system, non-operation or increased expense of operation of any equipment or systems, cost of capital, or cost of purchase or replacement equipment systems or power.

16.4 Notwithstanding any other provision of this Agreement , the total aggregate liability of Cornerstone, its officers, directors, employees, agents and subcontractors to the Client and all third parties, including attorney's fees awarded pursuant to this Agreement, for claims, damages or losses arising out of the treatment, transport, storage, discharge, dispersal or release of hazardous materials, shall be limited to $50,000 or the amount of Cornerstone's fee, whichever is greater and regardless of the legal theory under which liability is imposed.

16.5 For an additional 5% of Cornerstone's total fee or $500, whichever is greater, Cornerstone will raise the limitation of liability up to the amount that actually would be paid by Cornerstone's insurance carriers if Client and Cornerstone initial below:

LIMITATION INCREASE: THE LIMITATION OF LIABILITY IS INCREASED TO THE ACTUAL AMOUNT PAID BY CORNERSTONE'S INSURANCE CARRIERS IN EXCHANGE FOR AN ADDITIONAL FEE OF 5% OF THE TOTAL SERVICE CHARGE OR $500, WHICHEVER IS GREATER.

_____	_____	_____	_____
Client's Initial	Date	Cornerstone's Initial	Date

16.6 The Client shall indemnify, defend and hold harmless Cornerstone and its officers, directors, employees, agents and subcontractors from any and all damages, losses, or expenses, included but not limited to reasonable legal expenses and attorney's fees connected therewith, sustained by Cornerstone, its officers, directors, employees, agents and subcontractors as a result of any and all claims, demands, suits, causes of action, proceedings, judgments and liabilities for property damage, statutory penalty and/or personal injury with respect to and arising out of the Client's negligent acts, omissions or material breach of this Agreement. In the event a claim is the result of joint negligent acts or omissions of the Client and Cornerstone, the Client's duty of indemnification shall be in proportion to its respective allocable share of the joint negligence.

16.7 Client acknowledges and agrees that in no event shall any action or proceeding be brought against Cornerstone or proceeding be brought against Cornerstone by Client or its assignees for any claim or cause of action arising from or in any way related to the Work or this Agreement unless such action or proceeding is commenced within three (3) years from the Date of Completion of Work provided by Cornerstone under this Agreement. The Date of Completion shall be the date of the final invoice for the Work performed under this Agreement.

16.8 If Client requests that Cornerstone's work product be relied upon by a third party, including, but not limited to a lender, Client agrees to provide the third party with a copy of these terms and conditions, and Client agrees to require said third party to agree to limit Cornerstone's total liability to Client and any third party as described in paragraph 16.4 and Client agrees to indemnify Cornerstone, its officers, directors, employees, agents and/or subcontractors against any and all claims, liabilities, suits, demands, losses, costs and expenses, including but not limited to reasonable attorney's fees and legal costs, arising from third party claims, damages, costs and losses arising our of or in any way related to Work.

17. Disputing Cornerstone's Performance

17.1 Except as provided in Section 6 and Subsection 17.2 herein, if Cornerstone shall breach any provision herein, the Client shall notify Cornerstone within five (5) business days of the Client's knowledge of such breach. Except as provided in Subsections 17.3 herein, upon receipt of the Client's notice, Cornerstone shall have the option to take such corrective measures, if any, to remedy the breach, and shall notify the Client within five (5) business days after receipt of the

Client's notification of the corrective measures Cornerstone shall take and the estimated time period within which the corrective measures shall be taken. In no event shall Cornerstone be liable to the Client for any damages without being given a reasonable opportunity to remedy its breach as provided herein.

17.2 The Client shall make no claim for professional negligence unless the Client has first provided Cornerstone with a written certification executed by an independent Consultant currently practicing in the same discipline and locality as Cornerstone and licensed in the State of California. This certification shall (a) contain the name and license number of the certifier; (b) specify the acts or omissions that the certifier contends are not in conformance with the standard care for a Cornerstone performing professional services under similar circumstances; and (c) state in detail the basis for the certifier's opinion that such acts or omissions do not conform to the standard of care. This certificate shall be provided to Cornerstone no less than thirty (30) calendar days prior to the presentation of any claim or the institution of any mediation, arbitration or judicial proceeding.

17.3 Cornerstone agrees that upon receipt of written notice from the Client pursuant to Subsection 17.2 herein it will implement necessary corrections to the Work performed by Cornerstone that fails to conform to the standard of care that Cornerstone has accepted pursuant to Subsection 4.1, as mutually agreed in writing by the Parties as provided in Subsection 1.1. herein, if such written notice is received within one (1) year of the performance of the Work failing to conform to Subsection 4.1. If Cornerstone has been paid by the Client for such Work, Cornerstone shall perform the corrections at its own expense. If Cornerstone has not been paid by the Client for such Work, and the Work is subsequently corrected to conform with the standard of care that Cornerstone has accepted pursuant to Subsection 4.1, the Client shall pay Cornerstone in accordance with Section 3 herein.

17.4 In no event shall Cornerstone, its officers, directors, employees, agents and/or subcontractors be liable for any special, incidental or consequential damages, such as but not limited to delay, disruption, loss of product, loss of anticipated profits or revenue, loss of use of any equipment or system, non-operation or increased expense of operation of any equipment or systems, cost of capital, or cost of purchase or replacement equipment systems or power, or any other incidental, special, indirect or consequential damages of any kind or nature whatsoever resulting from Cornerstone's performance or failure to perform the Work in accordance with the standard of care that Cornerstone has accepted pursuant to Subsection 4.1.

18. Termination

18.1 Cornerstone shall have the right to terminate this Agreement ten (10) business days after written notice is sent to the Client if (a) the Client fails to pay any of Cornerstone's undisputed invoices within sixty (60) days from the date of the invoice; or (b) Cornerstone's attached proposal and/or the Work was based upon misinformation, whether by the Client or a third party, or upon information not fully disclosed to Cornerstone, whether by the Client or a third party.

18.2 Except as provided for in Section 6, and after compliance with Section 17, the Client shall have the right to terminate this Agreement ten (10) business days after written notice is sent to Cornerstone if Cornerstone fails to comply in any material respect with any of the material provisions herein and subsequently fails to notify the Client pursuant to Subsections 17.1 and 17.3 of the corrective measures Cornerstone intends to take.

18.3 The termination of this Agreement by Cornerstone under Subsection 18.1 herein, or by the Client under Subsection 18.2 herein, shall not relieve the Client of its obligations to pay Cornerstone for any of the Work performed and expenses incurred as of the date of termination, and shall not constitute a waiver by Cornerstone or the Client of any cause of action for breach of this Agreement or any provision herein.

19. Miscellaneous Provisions.

19.1 "Indemnity" Defined. The term "indemnify" shall mean indemnify, defend and hold harmless from and against any and all claims, liabilities, suits, demands, losses, costs and expenses, including but not limited to reasonable attorney's fees and all legal costs incurred on appeal, and all interest thereon, accruing or resulting to any and all persons, firms, or any other legal entities, on account of any damages or losses to property or persons, including death or economic losses, arising out of the item, matter, action or inaction specified in the specific provision.

19.2 Choice of Counsel. In any circumstance whereby Cornerstone is entitled to indemnification by the Client, Cornerstone shall have the right to select counsel of its choosing.

19.3 Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the Parties and their successors and assigns as provided herein. The Client shall not assign, sell, transfer or subcontract this Agreement or any interest herein without the prior written consent of Cornerstone. Cornerstone shall not assign, sell, transfer or subcontract this Agreement or any interest herein without the prior written consent of the Client. The Client hereby consents to the subcontracting of those portions of the Work as the attached proposal herein indicates are or will be subcontracted. Notwithstanding the above, Cornerstone shall have the right to assign monies due hereunder for the Work performed and expenses incurred.

19.4 Third Party Beneficiaries. The Parties agree that this Agreement is not intended by either Cornerstone or the Client to give any benefits, rights, privileges, actions or remedies to any person or entity, partnership, firm or corporation as a third party beneficiary or otherwise under any theory of law, that is not a signatory to this Agreement.

19.5 Survival. In order that the Parties may fully exercise their rights and perform their obligations arising from the performance of this Agreement, any provisions of this Agreement that are necessary to ensure such exercise or performance shall survive the termination of this Agreement.

19.6 Severability. If any part, term or provision of this Agreement shall be held illegal, unenforceable or in conflict with any federal, state or local law having jurisdiction over this Agreement, the validity of the remaining parts, terms or provisions of this Agreement shall not be affected thereby.

19.7 Choice of Law and Venue. This Agreement shall be governed by California law. The venue for any legal action brought pursuant to this Agreement shall be located within the County of Santa Clara, State of California.

19.8 Publicity. Unless otherwise mutually agreed in writing by the parties as provided in Subsection 1.1, Cornerstone may use and publish the Client's name and a general description of Cornerstone's services with respect to the Work in describing Cornerstone's experience and qualifications to other clients or prospective clients.

19.9 Signatories. Each undersigned representative of the Parties to this Agreement certifies that he or she is fully authorized to enter into the terms and conditions of this Agreement and to execute and legally bind such Party to this document.

19.10 Corporate Protection. It is intended by the parties to this Agreement that Cornerstone's services in connection with the Work shall not subject Cornerstone's individual employees, officers or directors to any personal legal exposure for the risks associated with this Project. Therefore, and notwithstanding anything to the contrary herein, the Client agrees that as the Client's sole and exclusive remedy, any claim, demand or suit shall be directed and/or asserted only against Cornerstone, a California Corporation, and not against any of Cornerstone's individual employees, officers or directors.

19.11 Code Compliance. Cornerstone shall exercise usual and customary professional care in its efforts to comply with applicable laws, codes and regulations as of the date of this Agreement.

19.12 Quotation. Unless stated in writing, this quotation shall not remain in effect after thirty (30) days of the Proposal date.

19.13 Contractors State License. Cornerstone maintains a General Engineering A license (No. 905816) with a Hazardous Substances Removal and Remedial Actions Certification with the State of California, which are regulated by the Contractors State License Board. Any questions concerning a contractor may be referred to the Registrar, Contractors State License Board, P.O. Box 26000, Sacramento, California 95826.

CORNERSTONE EARTH GROUP

APPENDIX B – DATABASE SEARCH REPORT

Phase I ESA
100 & 200 Prospect Avenue
Los Gatos, CA 95030

Inquiry Number: 3535320.1s
March 05, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

100 & 200 PROSPECT AVENUE
LOS GATOS, CA 95030

COORDINATES

Latitude (North):	37.2172000 - 37° 13' 1.92''
Longitude (West):	121.9822000 - 121° 58' 55.92''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	590305.1
UTM Y (Meters):	4119249.0
Elevation:	603 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	37121-B8 LOS GATOS, CA
Most Recent Revision:	1980
West Map:	37122-B1 CASTLE ROCK RIDGE, CA
Most Recent Revision:	1999

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CONVENT OF THE HOLY NAMES 200 PROSPECT AVE LOS GATOS, CA 95032	CA FID UST CUPA Listings SWEEPS UST HAZNET	N/A
SISTERS OF THE HOLY NAME 200 PROSPECT AVENUE LOS GATOS, CA 92032	HAZNET	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

CERCLIS ---------- Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

EXECUTIVE SUMMARY

State- and tribal - equivalent NPL

RESPONSE ..... State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR ..... EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ..... Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST ..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

VCP ..... Voluntary Cleanup Program Properties
INDIAN VCP ..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
WMUDS/SWAT ..... Waste Management Unit Database
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
Toxic Pits ..... Toxic Pits Cleanup Act Sites
CDL ..... Clandestine Drug Labs
US HIST CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information

LIENS ---- Environmental Liens Listing
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing

Other Ascertainable Records

RCRA NonGen / NLR ---- RCRA - Non Generators
DOT OPS ---- Incident and Accident Data
DOD ---- Department of Defense Sites
FUDS ---- Formerly Used Defense Sites
CONSENT ---- Superfund (CERCLA) Consent Decrees
ROD ---- Records Of Decision
UMTRA ---- Uranium Mill Tailings Sites
US MINES ---- Mines Master Index File
TRIS ---- Toxic Chemical Release Inventory System
TSCA ---- Toxic Substances Control Act
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ---- Section 7 Tracking Systems
ICIS ---- Integrated Compliance Information System
PADS ---- PCB Activity Database System
MLTS ---- Material Licensing Tracking System
RADINFO ---- Radiation Information Database
FINDS ---- Facility Index System/Facility Registry System
RAATS ---- RCRA Administrative Action Tracking System
RMP ---- Risk Management Plans
CA BOND EXP. PLAN ---- Bond Expenditure Plan
NPDES ---- NPDES Permits Listing
UIC ---- UIC Listing
Cortese ---- "Cortese" Hazardous Waste & Substances Sites List
SAN JOSE HAZMAT ---- Hazardous Material Facilities
Notify 65 ---- Proposition 65 Records
DRYCLEANERS ---- Cleaner Facilities
WIP ---- Well Investigation Program Case List
ENF ---- Enforcement Action Listing
HAZNET ---- Facility and Manifest Data
EMI ---- Emissions Inventory Data
INDIAN RESERV ---- Indian Reservations
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
WDS ---- Waste Discharge System
PRP ---- Potentially Responsible Parties
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
2020 COR ACTION ---- 2020 Corrective Action Program List
Financial Assurance ---- Financial Assurance Information Listing
EPA WATCH LIST ---- EPA WATCH LIST
US FIN ASSUR ---- Financial Assurance Information
PCB TRANSFORMER ---- PCB Transformer Registration Database
PROC ---- Certified Processors Database

MWMP ---------- Medical Waste Management Program Listing
COAL ASH DOE ---------- Steam-Electric Plant Operation Data
COAL ASH EPA ---------- Coal Combustion Residues Surface Impoundments List
HWT ---------- Registered Hazardous Waste Transporter Database
HWP ---------- EnviroStor Permitted Facilities Listing

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 12/17/2012 has revealed that there are 15 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TESTAROSSA WINEYARDS	***300 COLLEGE AVE***	***SSW 1/4 - 1/2 (0.329 mi.)***	***25***	***41***
Status: Completed - Case Closed				

Lower Elevation	Address	Direction / Distance	Map ID	Page
PARKING LOT	101 E. MAIN ST.	NNE 1/8 - 1/4 (0.179 mi.)	8	15
Status: Open - Site Assessment				
GASOLINE ALLEY	***22 S SANTA CRUZ AVE***	***NNW 1/8 - 1/4 (0.250 mi.)***	***D17***	***23***
GASOLINE ALLEY	***22 S SANTA CRUZ AVE***	***NNW 1/8 - 1/4 (0.250 mi.)***	***D18***	***25***
Status: Completed - Case Closed				
LOS GATOS HIGH SCHOOL	***20 HIGH SCHOOL CT***	***NE 1/4 - 1/2 (0.264 mi.)***	***20***	***28***
Status: Completed - Case Closed				
OLD TOWN CENTER	***50 UNIVERSITY AVE***	***N 1/4 - 1/2 (0.275 mi.)***	***21***	***33***
Status: Completed - Case Closed				
ANDALE PROPERTIES	***21 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.286 mi.)***	***E22***	***37***
Status: Completed - Case Closed				
LOS GATOS THEATER	***41 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.316 mi.)***	***E23***	***39***
Status: Completed - Case Closed				
TOWN OF LOS GATOS COORPORATION	***41 MILES AVE***	***NNE 1/4 - 1/2 (0.366 mi.)***	***F26***	***45***
BRUNNER'S W.VALLEY CHAPEL MOR.	***300 W MAIN ST***	***NNW 1/4 - 1/2 (0.378 mi.)***	***30***	***51***
Status: Completed - Case Closed				

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
TOWN OF LOS GATOS PARKING LOT Status: Completed - Case Closed	***20 GRAYS LN***	***N 1/4 - 1/2 (0.385 mi.)***	***31***	***53***
KITTEN ASSOCIATES Status: Completed - Case Closed	***120 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.408 mi.)***	***G32***	***55***
GROEN PROPERTY Status: Completed - Case Closed	***122 N SANTA CRUZ***	***N 1/4 - 1/2 (0.412 mi.)***	***G33***	***57***
FORMER MOBIL STATION 04-F2M Status: Completed - Case Closed	***155 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.461 mi.)***	***H34***	***58***
MOBIL	***155 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.461 mi.)***	***H35***	***60***

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 12/17/2012 has revealed that there are 3 SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TOWN OF LOS GATOS CORP YRD Facility Status: Open - Inactive	***41 MILES AVE***	***NNE 1/4 - 1/2 (0.366 mi.)***	***F27***	***46***
LOS GATOS TOWN CORPORATION	***41 MILES AVE***	***NNE 1/4 - 1/2 (0.366 mi.)***	***F28***	***48***
TOWN OF LOS GATOS - CORPORATE	***41 MILES AVE***	***NNE 1/4 - 1/2 (0.366 mi.)***	***F29***	***49***

HIST LUST: A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

A review of the HIST LUST list, as provided by EDR, and dated 03/29/2005 has revealed that there are 12 HIST LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TESTAROSSA WINEYARDS	***300 COLLEGE AVE***	***SSW 1/4 - 1/2 (0.329 mi.)***	***25***	***41***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GASOLINE ALLEY	***22 S SANTA CRUZ AVE***	***NNW 1/8 - 1/4 (0.250 mi.)***	***D17***	***23***
LOS GATOS HIGH SCHOOL	***20 HIGH SCHOOL CT***	***NE 1/4 - 1/2 (0.264 mi.)***	***20***	***28***
OLD TOWN CENTER	***50 UNIVERSITY AVE***	***N 1/4 - 1/2 (0.275 mi.)***	***21***	***33***
ANDALE PROPERTIES	***21 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.286 mi.)***	***E22***	***37***
LOS GATOS THEATER	***41 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.316 mi.)***	***E23***	***39***
LOS GATOS TOWN CORPORATION	***41 MILES AVE***	***NNE 1/4 - 1/2 (0.366 mi.)***	***F28***	***48***
BRUNNER'S W.VALLEY CHAPEL MOR.	***300 W MAIN ST***	***NNW 1/4 - 1/2 (0.378 mi.)***	***30***	***51***
TOWN OF LOS GATOS PARKING LOT	***20 GRAYS LN***	***N 1/4 - 1/2 (0.385 mi.)***	***31***	***53***
KITTEN ASSOCIATES	***120 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.408 mi.)***	***G32***	***55***
GROEN PROPERTY	***122 N SANTA CRUZ***	***N 1/4 - 1/2 (0.412 mi.)***	***G33***	***57***
MOBIL	***155 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.461 mi.)***	***H35***	***60***

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 12/17/2012 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GTE/MONTEBELLO CENTRAL OFFICE	15 MONTEBELLO WY	N 1/8 - 1/4 (0.228 mi.)	D12	21

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EL GATO PENTHOUSE APARTMENTS	***20 E MAIN ST***	***NNE 1/8 - 1/4 (0.142 mi.)***	***B4***	***11***
GENERAL TELEPHONE	***15 MONTEBELLO WAY***	***N 1/8 - 1/4 (0.228 mi.)***	***D11***	***17***
GASOLINE ALLEY	***22 S SANTA CRUZ AVE***	***NNW 1/8 - 1/4 (0.250 mi.)***	***D17***	***23***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EL GATO PENTHOUSE APARTMENTS	20 E MAIN ST	NNE 1/8 - 1/4 (0.142 mi.)	B5	12
GENERAL TELEPHONE	***15 MONTEBELLO WAY***	***N 1/8 - 1/4 (0.228 mi.)***	***D11***	***17***
GASOLINE ALLEY	***22 S SANTA CRUZ AVE***	***NNW 1/8 - 1/4 (0.250 mi.)***	***D18***	***25***

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EL GATO PENTHOUSE APARTMENTS	***20 E MAIN ST***	***NNE 1/8 - 1/4 (0.142 mi.)***	***B4***	***11***
GENERAL TELEPHONE	***15 MONTEBELLO WAY***	***N 1/8 - 1/4 (0.228 mi.)***	***D11***	***17***
GASOLINE ALLEY	***22 S SANTA CRUZ AVE***	***NNW 1/8 - 1/4 (0.250 mi.)***	***D17***	***23***

Other Ascertainable Records

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 8 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TESTAROSSA WINEYARDS	***300 COLLEGE AVE***	***SSW 1/4 - 1/2 (0.329 mi.)***	***25***	***41***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CRIDER BUILDING	22 SANTA CRUZ	NNW 1/8 - 1/4 (0.249 mi.)	D16	23
LOS GATOS HIGH SCHOOL	***20 HIGH SCHOOL CT***	***NE 1/4 - 1/2 (0.264 mi.)***	***20***	***28***
OLD TOWN CENTER	***50 UNIVERSITY AVE***	***N 1/4 - 1/2 (0.275 mi.)***	***21***	***33***
ANDALE PROPERTIES	***21 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.286 mi.)***	***E22***	***37***
TOWN OF LOS GATOS PARKING LOT	***20 GRAYS LN***	***N 1/4 - 1/2 (0.385 mi.)***	***31***	***53***
KITTEN ASSOCIATES	***120 N SANTA CRUZ AVE***	***N 1/4 - 1/2 (0.408 mi.)***	***G32***	***55***
MOBIL	155 SANTA CRUZ	N 1/4 - 1/2 (0.461 mi.)	H36	60

CUPA Listings: A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

A review of the CUPA Listings list, as provided by EDR, has revealed that there are 5 CUPA Listings sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TESTAROSSA VINEYARDS	300 COLLEGE AV A	SSE 0 - 1/8 (0.055 mi.)	3	11
RANDALL C PARTIN DDS APC	***11 E MAIN ST***	***N 1/8 - 1/4 (0.144 mi.)***	***B6***	***13***
RURAL SUPPLY HARDWARE	110 S SANTA CRUZ AV	NNW 1/8 - 1/4 (0.219 mi.)	C9	17
SJWC-CENTRAL STATION	CENTRAL AV & JACKSON ST	ESE 1/8 - 1/4 (0.242 mi.)	14	22
PRECISION WORKS INC	***110 WOOD RD***	***WNW 1/8 - 1/4 (0.245 mi.)***	***15***	***22***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within

approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOS GATOS GAS WORKS	N CORNER ELM AND SANTA	N 1/4 - 1/2 (0.328 mi.)	24	41

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 2 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	66 E MAIN ST	NNE 1/8 - 1/4 (0.160 mi.)	B7	14
GATEWAY GARAGE	110 S SANTA CRUZ AVE	NNW 1/8 - 1/4 (0.220 mi.)	C10	17

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 2 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

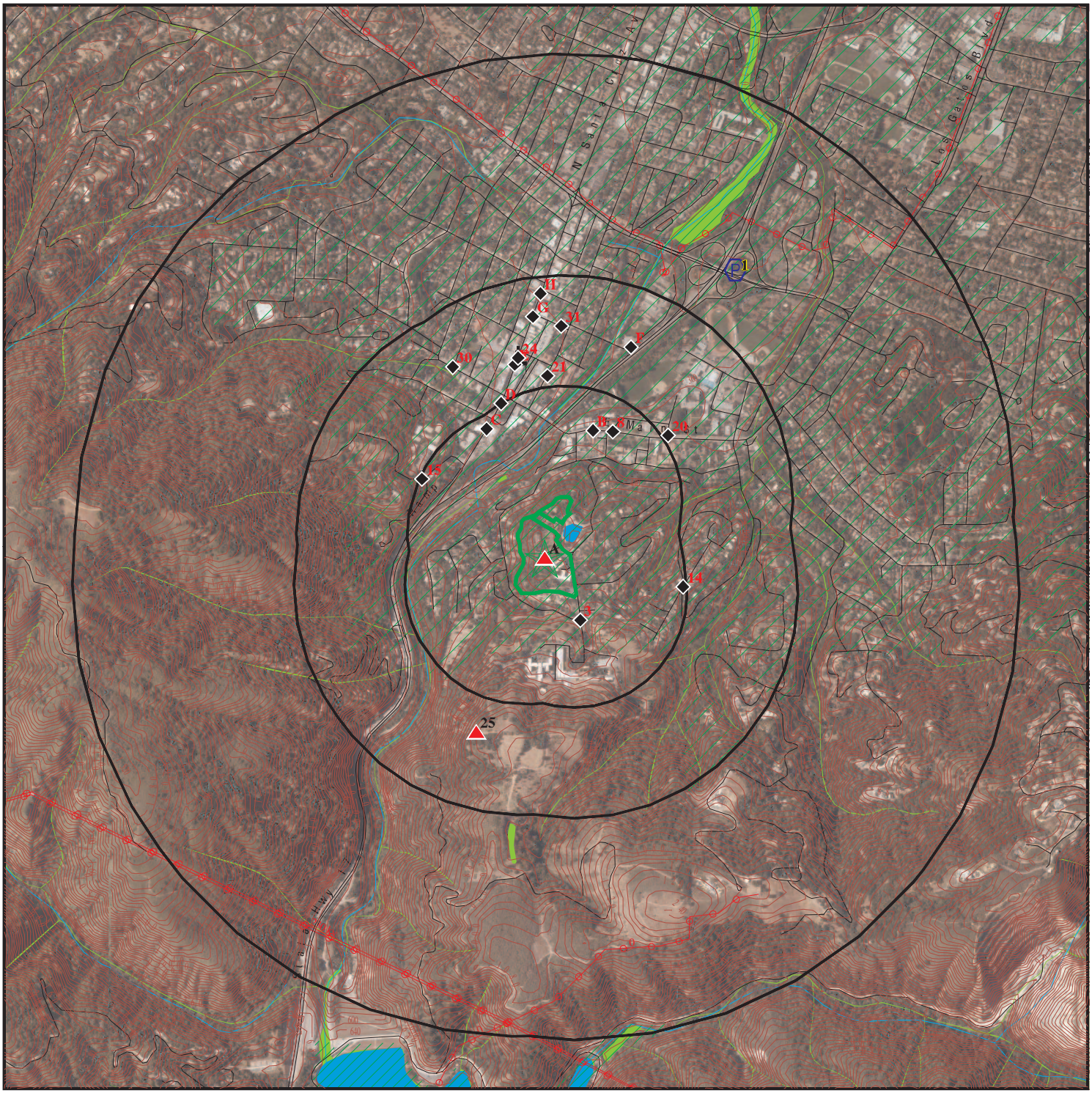
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	11 MONTEBELLO WAY	N 1/8 - 1/4 (0.230 mi.)	D13	21
Not reported	22 S SANTA CRUZ AVE	NNW 1/8 - 1/4 (0.250 mi.)	D19	28

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

Site Name	Database(s)
FRANK, WILLIAM	HIST CORTESE, LUST
SAN JOSE WATER CO	NPDES, CUPA Listings, HAZNET
AT&T MOBILITY-HWY 17-SC VISITOR CT	CUPA Listings
SPRINT PCS-SF13XC601	CUPA Listings
VERIZON WIRELESS: LEXINGTON RESERV	CUPA Listings
CPMWC-MOODY GULCH TREATMENT PLANT	CUPA Listings
PG&E GAS PLANT LOS GATOS	CERC-NFRAP
PACIFIC RAILWAY SIGNALS COLUMBIA P	CERC-NFRAP
GROEN PROPERTY	LUST
WILLIAMS TANK LINES FUEL SPILL	SLIC

OVERVIEW MAP - 3535320.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

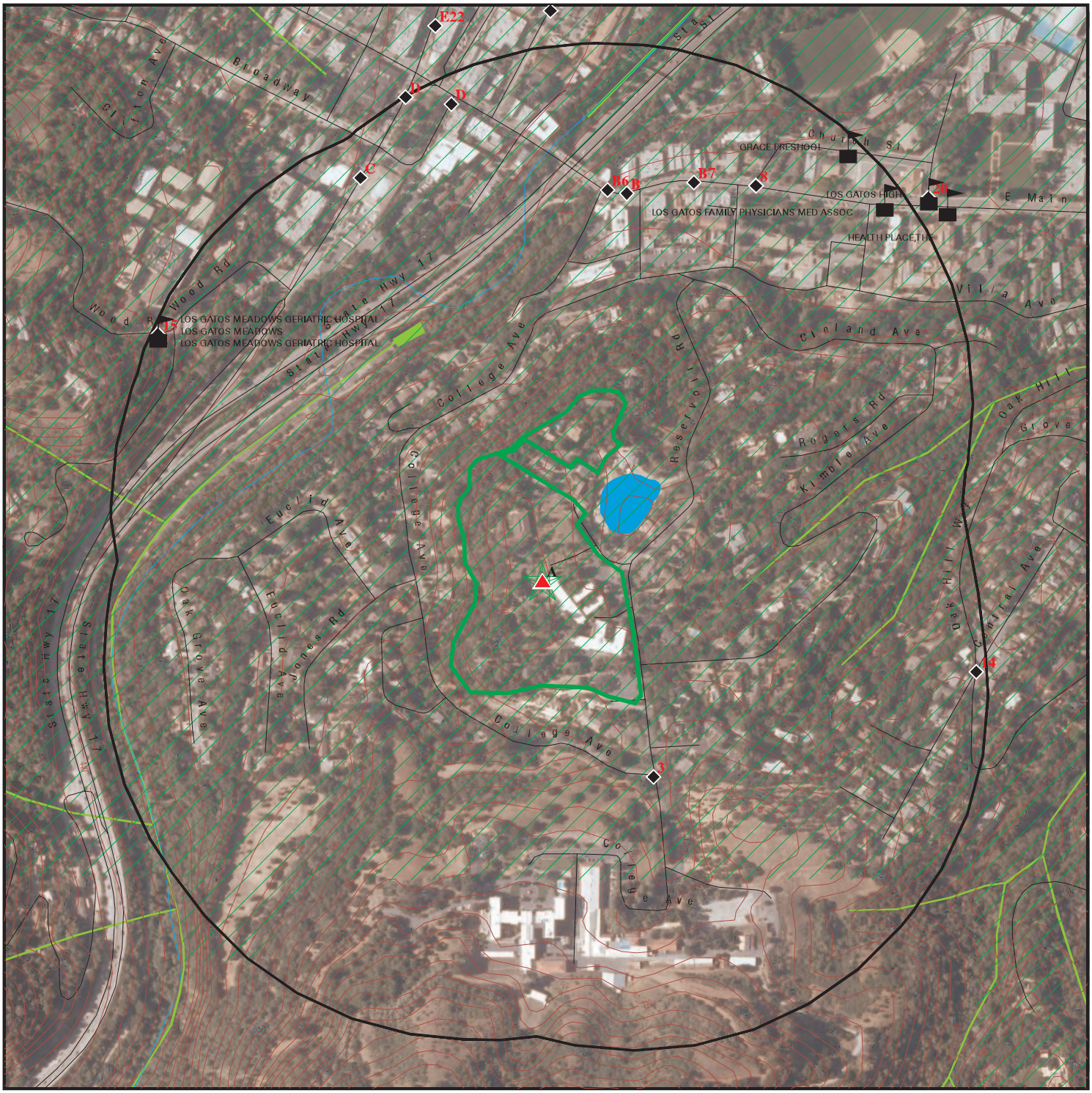
Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Phase I ESA	CLIENT:	Cornerstone Earth Group
ADDRESS:	100 & 200 Prospect Avenue Los Gatos CA 95030	CONTACT:	Stason Foster
LAT/LONG:	37.2172 / 121.9822	INQUIRY #:	3535320.1s
		DATE:	March 05, 2013 10:30 am

DETAIL MAP - 3535320.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Phase I ESA	CLIENT:	Cornerstone Earth Group
ADDRESS:	100 & 200 Prospect Avenue Los Gatos CA 95030	CONTACT:	Stason Foster
LAT/LONG:	37.2172 / 121.9822	INQUIRY #:	3535320.1s
		DATE:	March 05, 2013 10:31 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	3	12	NR	NR	15

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC	0.500		0	0	3	NR	NR	3
HIST LUST	0.500		0	1	11	NR	NR	12
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250	1	0	3	NR	NR	NR	4
HIST UST	0.250		0	3	NR	NR	NR	3
SWEEPS UST	0.250	1	0	3	NR	NR	NR	4
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
HIST CORTESE	0.500		0	1	7	NR	NR	8
SAN JOSE HAZMAT	0.250		0	0	NR	NR	NR	0
CUPA Listings	0.250	1	1	4	NR	NR	NR	6
Notify 65	1.000		0	0	0	0	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	2	NR	NR	NR	NR	NR	2
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HWT	0.250		0	0	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	1	0	NR	1
EDR US Hist Auto Stat	0.250		0	2	NR	NR	NR	2
EDR US Hist Cleaners	0.250		0	2	NR	NR	NR	2

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CONVENT OF THE HOLY NAMES** **CA FID UST** **S101594561**
Target **200 PROSPECT AVE** **CUPA Listings** **N/A**
Property **LOS GATOS, CA 95032** **SWEEPS UST**
HAZNET

Site 1 of 2 in cluster A

Actual:
603 ft.

CA FID UST:

Facility ID:	43005978
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4083541730
Mail To:	Not reported
Mailing Address:	P O BOX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOS GATOS 95032
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CUPA SANTA CLARA:

Region:	SANTA CLARA
Program Description:	HAZARDOUS MATERIALS - LONG FORM - LG

SWEEPS UST:

Status:	Active
Comp Number:	949
Number:	2
Board Of Equalization:	Not reported
Referral Date:	08-27-90
Action Date:	05-27-94
Created Date:	05-27-94
Tank Status:	A
Owner Tank Id:	H523303
Swrcb Tank Id:	43-003-000949-000001
Actv Date:	08-27-90
Capacity:	2000
Tank Use:	M.V. FUEL
Stg:	P
Content:	REG UNLEADED
Number Of Tanks:	1

Status:	Active
Comp Number:	11869
Number:	2
Board Of Equalization:	Not reported
Referral Date:	02-03-92
Action Date:	02-03-92
Created Date:	02-03-92
Tank Status:	A
Owner Tank Id:	H523303
Swrcb Tank Id:	43-000-011869-000001
Actv Date:	02-03-92

CONVENT OF THE HOLY NAMES (Continued) **S101594561**

Capacity: 2000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: 1

HAZNET:
Year: 2008
Gepaid: CAC002630960
Contact: JULIE HARRIGAN
Telephone: 4083952702
Mailing Name: Not reported
Mailing Address: 200 PROSPECT AVE
Mailing City,St,Zip: LOS GATOS, CA 95030
Gen County: Santa Clara
TSD EPA ID: CAD981382732
TSD County: Alameda
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.8
Facility County: Santa Clara

Year: 2004
Gepaid: CAC002571652
Contact: SIS MARGUERITE KIRK
Telephone: 4083955150
Mailing Name: Not reported
Mailing Address: 200 PROSPECT AVE
Mailing City,St,Zip: LOS GATOS, CA 95031
Gen County: Santa Clara
TSD EPA ID: CAD981382732
TSD County: Alameda
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 16.85
Facility County: Not reported

Year: 2003
Gepaid: CAC002571652
Contact: SIS MARGUERITE KIRK
Telephone: 4083955150
Mailing Name: Not reported
Mailing Address: 200 PROSPECT AVE
Mailing City,St,Zip: LOS GATOS, CA 95031
Gen County: Santa Clara
TSD EPA ID: CAD981382732
TSD County: Santa Clara
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 36.24
Facility County: Santa Clara

A2 **SISTERS OF THE HOLY NAME** **HAZNET** **S102797615**
Target **200 PROSPECT AVENUE** **N/A**
Property **LOS GATOS, CA 92032**

Site 2 of 2 in cluster A

Actual:
603 ft.

HAZNET:

Year:	2000
Gepaid:	CAC002328313
Contact:	SISTERS OF THE HOLY NAME
Telephone:	4083953735
Mailing Name:	Not reported
Mailing Address:	200 PROSPECT AVE
Mailing City,St,Zip:	LOS GATOS, CA 950300000
Gen County:	Santa Clara
TSD EPA ID:	CAD981382732
TSD County:	1
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	1.6856
Facility County:	Santa Clara

Year:	2000
Gepaid:	CAC001432908
Contact:	SISTERS OF THE HOLY NAME
Telephone:	4083952661
Mailing Name:	Not reported
Mailing Address:	200 PROSPECT AVENUE
Mailing City,St,Zip:	LOS GATOS, CA 920320000
Gen County:	Santa Clara
TSD EPA ID:	CAD981382732
TSD County:	1
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	4.2140
Facility County:	Santa Clara

Year:	1999
Gepaid:	CAC001432908
Contact:	SISTERS OF THE HOLY NAME
Telephone:	4083952661
Mailing Name:	Not reported
Mailing Address:	200 PROSPECT AVENUE
Mailing City,St,Zip:	LOS GATOS, CA 920320000
Gen County:	Santa Clara
TSD EPA ID:	CAD981382732
TSD County:	1
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	5.8996
Facility County:	Santa Clara

Year:	1999
Gepaid:	CAC001085944
Contact:	SISTERS OF THE HOLY NAME
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	200 PROSPECT AVENUE
Mailing City,St,Zip:	LOS GATOS, CA 920320000

SISTERS OF THE HOLY NAME (Continued) **S102797615**

Gen County: Santa Clara
TSD EPA ID: CAD981382732
TSD County: 1
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 0.8428
Facility County: Santa Clara

Year: 1994
Gepaid: CAC000921784
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 200 PROSPECT AVENUE
Mailing City,St,Zip: LOS GATOS, CA 920320000
Gen County: Santa Clara
TSD EPA ID: CAD009466392
TSD County: 7
Waste Category: Other empty containers 30 gallons or more
Disposal Method: Recycler
Tons: 1.0000
Facility County: Santa Clara

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

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3 **TESTAROSSA VINEYARDS** **CUPA Listings** **S112346977**
SSE **300 COLLEGE AV A** **N/A**
< 1/8 **LOS GATOS, CA 95030**
0.055 mi.
289 ft.

Relative:
Lower

Actual:
595 ft.

CUPA SANTA CLARA:
Region: SANTA CLARA
Program Description: HAZ MAT STORAGE PROGRAM RECORD

Region: SANTA CLARA
Program Description: GENERATES < 100 KG/YR

Region: SANTA CLARA
Program Description: HAZMAT STORAGE & HMBP FACILITY, 1-3 CHEMICALS

B4 **EL GATO PENTHOUSE APARTMENTS** **CA FID UST** **S101625155**
NNE **20 E MAIN ST** **SWEEPS UST** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.142 mi.
752 ft. **Site 1 of 4 in cluster B**

Relative:
Lower

Actual:
394 ft.

CA FID UST:
Facility ID: 43011898
Regulated By: UTNKI
Regulated ID: 00006906
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4083544200
Mail To: Not reported

EL GATO PENTHOUSE APARTMENTS (Continued) **S101625155**

Mailing Address: 18 E MAIN ST
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS GATOS 95030
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

SWEEPS UST:
Status: Not reported
Comp Number: 6906
Number: Not reported
Board Of Equalization: 44-025881
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 43-003-006906-000001
Actv Date: Not reported
Capacity: 1200
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 1

B5 **EL GATO PENTHOUSE APARTMENTS** **HIST UST** **U001601382**
NNE **20 E MAIN ST** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.142 mi.
752 ft. **Site 2 of 4 in cluster B**

Relative:
Lower

Actual:
394 ft.

HIST UST:
Region: STATE
Facility ID: 00000006906
Facility Type: Other
Other Type: PROPERTY MANAGEMENT
Total Tanks: 0001
Contact Name: MR. LEWIS
Telephone: 4083544200
Owner Name: E.A.MAAS
Owner Address: 18 EAST MAIN STREET
Owner City,St,Zip: LOS GATOS, CA 95030

Tank Num: 001
Container Num: 1
Year Installed: 1982
Tank Capacity: 00001200
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor

B6 **RANDALL C PARTIN DDS APC** **CUPA Listings** **S108753633**
North **11 E MAIN ST** **HAZNET** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.144 mi.
761 ft. **Site 3 of 4 in cluster B**

Relative:
Lower

Actual:
387 ft.

CUPA SANTA CLARA:
Region: SANTA CLARA
Program Description: SILVER WASTE ONLY <100 KG/MO

HAZNET:
Year: 2009
Gepaid: CAL000084028
Contact: SALLY COX
Telephone: 4083546576
Mailing Name: Not reported
Mailing Address: 11 E MAIN ST
Mailing City,St,Zip: LOS GATOS, CA 950300000
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Liquids with pH <= 2 with metals
Disposal Method: Other Chemical Precipitation With Or Without Pre-Treatment
Tons: Not reported
Facility County: Santa Clara

Year: 2009
Gepaid: CAL000084028
Contact: SALLY COX
Telephone: 4083546576
Mailing Name: Not reported
Mailing Address: 11 E MAIN ST
Mailing City,St,Zip: LOS GATOS, CA 950300000
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Liquids with pH <= 2 with metals
Disposal Method: Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons: 0.01251
Facility County: Santa Clara

Year: 2009
Gepaid: CAL000084028
Contact: SALLY COX
Telephone: 4083546576
Mailing Name: Not reported
Mailing Address: 11 E MAIN ST
Mailing City,St,Zip: LOS GATOS, CA 950300000
Gen County: Santa Clara
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Unspecified organic liquid mixture
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.051
Facility County: Santa Clara

Year: 2009

RANDALL C PARTIN DDS APC (Continued) **S108753633**

Gepaid:	CAL000084028
Contact:	SALLY COX
Telephone:	4083546576
Mailing Name:	Not reported
Mailing Address:	11 E MAIN ST
Mailing City,St,Zip:	LOS GATOS, CA 950300000
Gen County:	Santa Clara
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Waste Category:	Not reported
Disposal Method:	Not reported
Tons:	Not reported
Facility County:	Santa Clara

Year:	2008
Gepaid:	CAL000084028
Contact:	SALLY COX
Telephone:	4083546576
Mailing Name:	Not reported
Mailing Address:	11 E MAIN ST
Mailing City,St,Zip:	LOS GATOS, CA 950300000
Gen County:	Santa Clara
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.00417
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

B7 **EDR US Hist Auto Stat** **1015593365**
NNE **66 E MAIN ST** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.160 mi.
846 ft. **Site 4 of 4 in cluster B**

Relative:
Lower

Actual:
394 ft.

EDR Historical Auto Stations:

Name:	SILICON VALLEY AUTO GROUP
Year:	2005
Address:	66 E MAIN ST

Name:	SILICON VALLEY AUTO GROUP LLC
Year:	2006
Address:	66 E MAIN ST

8
NNE
1/8-1/4
0.179 mi.
943 ft.

PARKING LOT
101 E. MAIN ST.
LOS GATOS, CA

LUST **S110819234**
N/A

Relative:
Lower

Actual:
392 ft.

LUST:

Region:	STATE
Global Id:	T10000002937
Latitude:	37.221519
Longitude:	-121.978991
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	03/24/2011
Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	GOR
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	14-816
LOC Case Number:	08S1W21F03f
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Benzene, Gasoline
Site History:	Phase II investigation conducted in January 2011 for a property transaction. Report of investigation not submitted only tables and figure. Follow-up investigation conducted by property owner. The site is a paved parking lot and has been since 1974. Chevron removed all site improvements by early 1974. No report of UST removals.

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T10000002937
Contact Type:	Local Agency Caseworker
Contact Name:	Gerald O'Regan
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 BERGER DRIVE STE 300
City:	SAN JOSE
Email:	gerald.o'regan@deh.sccgov.org
Phone Number:	Not reported

Global Id:	T10000002937
Contact Type:	Regional Board Caseworker
Contact Name:	NATHAN KING
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY ST., SUITE 1400
City:	OAKLAND
Email:	nking@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T10000002937
Action Type:	ENFORCEMENT
Date:	04/04/2011
Action:	Staff Letter

Global Id:	T10000002937
Action Type:	ENFORCEMENT
Date:	06/10/2011
Action:	Staff Letter

PARKING LOT (Continued) **S110819234**

Global Id: T10000002937
Action Type: RESPONSE
Date: 10/30/2011
Action: Preliminary Site Assessment Report

Global Id: T10000002937
Action Type: RESPONSE
Date: 12/03/2010
Action: Site Assessment Report

Global Id: T10000002937
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T10000002937
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T10000002937
Action Type: ENFORCEMENT
Date: 03/25/2011
Action: Notice of Responsibility

Global Id: T10000002937
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T10000002937
Action Type: ENFORCEMENT
Date: 05/24/2011
Action: Staff Letter

Global Id: T10000002937
Action Type: ENFORCEMENT
Date: 08/19/2011
Action: Staff Letter

Global Id: T10000002937
Action Type: ENFORCEMENT
Date: 08/22/2011
Action: Staff Letter

Global Id: T10000002937
Action Type: ENFORCEMENT
Date: 12/20/2011
Action: Staff Letter

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21F03F
Date Closed: Not reported

C9 **RURAL SUPPLY HARDWARE** **CUPA Listings** **S112346561**
NNW **110 S SANTA CRUZ AV** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.219 mi.
1158 ft. **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
418 ft.

CUPA SANTA CLARA:
Region: SANTA CLARA
Program Description: HAZARDOUS MATERIALS - LONG FORM - LG

C10 **GATEWAY GARAGE** **EDR US Hist Auto Stat** **1009122969**
NNW **110 S SANTA CRUZ AVE** **N/A**
1/8-1/4 **SAN JOSE, CA**
0.220 mi.
1160 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
418 ft.

EDR Historical Auto Stations:
Name: GATEWAY GARAGE
Year: 1940
Type: AUTOMOBILE REPAIRING

D11 **GENERAL TELEPHONE** **CA FID UST** **1000214067**
North **15 MONTEBELLO WAY** **HIST UST** **N/A**
1/8-1/4 **LOS GATOS, CA 95030** **SWEEPS UST**
0.228 mi. **EMI**
1206 ft. **Site 1 of 7 in cluster D**

Relative:
Lower

Actual:
410 ft.

CA FID UST:
Facility ID: 43004728
Regulated By: UTNKA
Regulated ID: 00012929
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4083996293
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS GATOS 95030
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST UST:
Region: STATE
Facility ID: 00000012929
Facility Type: Other
Other Type: PUBLIC UTILITY
Total Tanks: 0001
Contact Name: L. HAMILTON
Telephone: 4083996293
Owner Name: GENERAL TELEPHONE CO. OF CA.
Owner Address: 4959 PALO VERDE DR.
Owner City,St,Zip: MONTCLAIR, CA 91763

GENERAL TELEPHONE (Continued) **1000214067**

Tank Num: 001
Container Num: 1
Year Installed: 1982
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

SWEEPS UST:
Status: Active
Comp Number: 12929
Number: 1
Board Of Equalization: 44-007526
Referral Date: 03-15-93
Action Date: 03-11-94
Created Date: 02-29-88
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: Not reported
Actv Date: Not reported
Capacity: Not reported
Tank Use: Not reported
Stg: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 12929
Number: 1
Board Of Equalization: Not reported
Referral Date: 02-03-92
Action Date: 02-03-92
Created Date: 02-03-92
Tank Status: A
Owner Tank Id: 1
Swrcb Tank Id: 43-000-012929-000001
Actv Date: 02-03-92
Capacity: 4000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: 1

Status: Not reported
Comp Number: 12929
Number: Not reported
Board Of Equalization: 44-007526
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 43-003-012929-000001
Actv Date: Not reported
Capacity: 4000
Tank Use: M.V. FUEL

GENERAL TELEPHONE (Continued) **1000214067**

Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 1

EMI:

Year:	2002
County Code:	43
Air Basin:	SF
Facility ID:	13453
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	43
Air Basin:	SF
Facility ID:	13453
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	43
Air Basin:	SF
Facility ID:	13453
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.024
Reactive Organic Gases Tons/Yr:	0.0200808
Carbon Monoxide Emissions Tons/Yr:	0.05
NOX - Oxides of Nitrogen Tons/Yr:	0.322
SOX - Oxides of Sulphur Tons/Yr:	0.005
Particulate Matter Tons/Yr:	0.012
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.011712

Year: 2005

GENERAL TELEPHONE (Continued) **1000214067**

County Code:	43
Air Basin:	SF
Facility ID:	13453
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.024
Reactive Organic Gases Tons/Yr:	.0200808
Carbon Monoxide Emissions Tons/Yr:	.05
NOX - Oxides of Nitrogen Tons/Yr:	.322
SOX - Oxides of Sulphur Tons/Yr:	.005
Particulate Matter Tons/Yr:	.012
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.011712

Year:	2006
County Code:	43
Air Basin:	SF
Facility ID:	13453
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.004
Reactive Organic Gases Tons/Yr:	.0033468
Carbon Monoxide Emissions Tons/Yr:	.007
NOX - Oxides of Nitrogen Tons/Yr:	.048
SOX - Oxides of Sulphur Tons/Yr:	.001
Particulate Matter Tons/Yr:	.002
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.001952

Year:	2007
County Code:	43
Air Basin:	SF
Facility ID:	13453
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.016
Reactive Organic Gases Tons/Yr:	.0133872
Carbon Monoxide Emissions Tons/Yr:	.032
NOX - Oxides of Nitrogen Tons/Yr:	.206
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.008
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.007808

Year:	2007
County Code:	43
Air Basin:	SF
Facility ID:	13453
Air District Name:	BA
SIC Code:	4813
Air District Name:	BAY AREA AQMD

GENERAL TELEPHONE (Continued) **1000214067**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.004
Reactive Organic Gases Tons/Yr:	.0033468
Carbon Monoxide Emissions Tons/Yr:	.007
NOX - Oxides of Nitrogen Tons/Yr:	.048
SOX - Oxides of Sulphur Tons/Yr:	.001
Particulate Matter Tons/Yr:	.002
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.001952

D12 **GTE/MONTEBELLO CENTRAL OFFICE** **UST** **U003976840**
North **15 MONTEBELLO WY** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.228 mi.
1206 ft. **Site 2 of 7 in cluster D**

Relative:
Lower

Actual:
410 ft.

UST:

Facility ID:	62
Latitude:	37.22212
Longitude:	-121.98343

D13 **EDR US Hist Cleaners** **1014974014**
North **11 MONTEBELLO WAY** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.230 mi.
1213 ft. **Site 3 of 7 in cluster D**

Relative:
Lower

Actual:
410 ft.

EDR Historical Cleaners:

Name:	SMART CLEANERS & TAILORING
Year:	2001
Address:	11 MONTEBELLO WAY
Name:	SMART CLEANERS & TAILORING
Year:	2002
Address:	11 MONTEBELLO WAY
Name:	SMART CLEANERS & TAILORING
Year:	2003
Address:	11 MONTEBELLO WAY
Name:	SMART CLEANERS
Year:	2004
Address:	11 MONTEBELLO WAY
Name:	SMART CLEANERS & TAILORING
Year:	2006
Address:	11 MONTEBELLO WAY
Name:	SMART CLEANERS & TAILORING
Year:	2007
Address:	11 MONTEBELLO WAY
Name:	SMART CLEANERS & TAILORING
Year:	2008
Address:	11 MONTEBELLO WAY

(Continued) **1014974014**

Name: SMART CLEANERS & TAILORING
Year: 2010
Address: 11 MONTEBELLO WAY

Name: SMART CLEANERS & TAILORING
Year: 2011
Address: 11 MONTEBELLO WAY

Name: SMART CLEANERS & TAILORING
Year: 2012
Address: 11 MONTEBELLO WAY

14
ESE
1/8-1/4
0.242 mi.
1278 ft.

SJWC-CENTRAL STATION **CUPA Listings** **S112346717**
CENTRAL AV & JACKSON ST **N/A**
LOS GATOS, CA 95030

Relative:
Lower

Actual:
555 ft.

CUPA SANTA CLARA:
Region: SANTA CLARA
Program Description: HAZARDOUS MATERIALS - LONG FORM - LG

15
WNW
1/8-1/4
0.245 mi.
1291 ft.

PRECISION WORKS INC **CUPA Listings** **S106087607**
110 WOOD RD **HAZNET** **N/A**
LOS GATOS, CA 95030

Relative:
Lower

Actual:
493 ft.

CUPA SANTA CLARA:
Region: SANTA CLARA
Program Description: HAZARDOUS MATERIALS - LONG FORM - LG

HAZNET:
Year: 2007
Gepaid: CAC002614416
Contact: SHANEN SWIMM
Telephone: 4083540275
Mailing Name: Not reported
Mailing Address: 110 WOOD RD
Mailing City,St,Zip: LOS GATOS, CA 950306737
Gen County: Santa Clara
TSD EPA ID: CAD982042475
TSD County: Solano
Waste Category: Asbestos containing waste
Disposal Method: Not reported
Tons: 1.2
Facility County: Santa Clara

Year: 2003
Gepaid: CAC002568461
Contact: SHANEN SWIMM/FAC SUPERVSR
Telephone: 4083570327
Mailing Name: Not reported
Mailing Address: 110 WOOD RD
Mailing City,St,Zip: LOS GATOS, CA 95030
Gen County: Santa Clara

PRECISION WORKS INC (Continued) **S106087607**

TSD EPA ID: CAL000190080
TSD County: Santa Clara
Waste Category: Asbestos containing waste
Disposal Method: Disposal, Land Fill
Tons: 85.12
Facility County: Santa Clara

Year: 2002
Gepaid: CAC002552852
Contact: LARRY MALONE
Telephone: 9252830680
Mailing Name: Not reported
Mailing Address: 3650 MOUNT DIABLO BLVD STE 100
Mailing City,St,Zip: LASAYETTE, CA 94549
Gen County: Santa Clara
TSD EPA ID: Not reported
TSD County: Solano
Waste Category: Asbestos containing waste
Disposal Method: Not reported
Tons: 0.84
Facility County: Not reported

D16 **CRIDER BUILDING** **HIST CORTESE** **S101303645**
NNW **22 SANTA CRUZ** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.249 mi.
1316 ft. **Site 4 of 7 in cluster D**

Relative:
Lower

Actual:
415 ft.

CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-1795

D17 **GASOLINE ALLEY** **LUST** **S101625157**
NNW **22 S SANTA CRUZ AVE** **CA FID UST** **N/A**
1/8-1/4 **LOS GATOS, CA 95030** **HIST LUST**
0.250 mi. **SWEEPS UST**
1318 ft. **Site 5 of 7 in cluster D**

Relative:
Lower

Actual:
415 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W21E01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

GASOLINE ALLEY (Continued) **S101625157**

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21E01F
Date Closed: 03/24/1995

CA FID UST:
Facility ID: 43011901
Regulated By: UTNKI
Regulated ID: 00051285
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4083547270
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS GATOS 95030
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21E01
Oversite Agency: SCVWD
Date Listed: 1996-01-01 00:00:00
Closed Date: 1995-03-24 00:00:00

SWEEPS UST:
Status: Not reported
Comp Number: 51285
Number: Not reported
Board Of Equalization: 44-025905
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 43-003-051285-000001
Actv Date: Not reported
Capacity: 550
Tank Use: OIL
Stg: WASTE
Content: WASTE OIL
Number Of Tanks: 4

Status: Not reported
Comp Number: 51285
Number: Not reported
Board Of Equalization: 44-025905
Referral Date: Not reported

GASOLINE ALLEY (Continued) **S101625157**

Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	43-003-051285-000002
Actv Date:	Not reported
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	51285
Number:	Not reported
Board Of Equalization:	44-025905
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	43-003-051285-000003
Actv Date:	Not reported
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	51285
Number:	Not reported
Board Of Equalization:	44-025905
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	43-003-051285-000004
Actv Date:	Not reported
Capacity:	4000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

D18 **GASOLINE ALLEY** **LUST** **U001601386**
NNW **22 S SANTA CRUZ AVE** **HIST UST** **N/A**
1/8-1/4 **LOS GATOS, CA 95030**
0.250 mi.
1318 ft. **Site 6 of 7 in cluster D**

Relative:
Lower

Actual:
415 ft.

LUST:

Region:	STATE
Global Id:	T0608548052
Latitude:	37.221991
Longitude:	-121.984461
Case Type:	LUST Cleanup Site

GASOLINE ALLEY (Continued) **U001601386**

Status:	Completed - Case Closed
Status Date:	03/24/1995
Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	UST
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0608548052
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

Global Id:	T0608548052
Contact Type:	Regional Board Caseworker
Contact Name:	ZSC
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0608548052
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0608548052
Action Type:	ENFORCEMENT
Date:	03/24/1995
Action:	Closure/No Further Action Letter

Global Id:	T0608548052
Action Type:	RESPONSE
Date:	01/01/1996
Action:	Other Report / Document

Global Id:	T0608548052
Action Type:	RESPONSE
Date:	01/01/1996
Action:	Other Report / Document

Global Id:	T0608548052
Action Type:	RESPONSE
Date:	01/01/1996

GASOLINE ALLEY (Continued) **U001601386**

Action: Other Report / Document

Global Id: T0608548052
Action Type: RESPONSE
Date: 01/01/1996
Action: Other Report / Document

Global Id: T0608548052
Action Type: RESPONSE
Date: 01/01/1996
Action: Other Report / Document

Global Id: T0608548052
Action Type: RESPONSE
Date: 01/01/1996
Action: Other Report / Document

HIST UST:
Region: STATE
Facility ID: 00000051285
Facility Type: Gas Station
Other Type: Not reported
Total Tanks: 0004
Contact Name: JOSEPH TAORMINA
Telephone: 4083547270
Owner Name: GASOLINE ALLEY INC.
Owner Address: 22 S. SANTA CRUZ AVE.
Owner City,St,Zip: LOS GATOS, CA 95030

Tank Num: 001
Container Num: 4
Year Installed: 1955
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 002
Container Num: 3
Year Installed: 1972
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 003
Container Num: 2
Year Installed: 1972
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor

GASOLINE ALLEY (Continued) **U001601386**

Tank Num: 004
Container Num: 1
Year Installed: 1955
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor

D19
NNW
1/8-1/4
0.250 mi.
1318 ft.

22 S SANTA CRUZ AVE
LOS GATOS, CA 95030

Site 7 of 7 in cluster D

EDR US Hist Cleaners **1015020000**
N/A

Relative:
Lower

Actual:
415 ft.

EDR Historical Cleaners:

Name: LOS GATOS HAPPY CLEANERS
Year: 2005
Address: 22 S SANTA CRUZ AVE

Name: LOS GATOS HAPPY CLEANERS
Year: 2006
Address: 22 S SANTA CRUZ AVE

Name: LOS GATOS HAPPY CLEANERS
Year: 2010
Address: 22 S SANTA CRUZ AVE

Name: LOS GATOS HAPPY CLEANERS
Year: 2011
Address: 22 S SANTA CRUZ AVE

Name: LOS GATOS HAPPY CLEANERS
Year: 2012
Address: 22 S SANTA CRUZ AVE

20
NE
1/4-1/2
0.264 mi.
1392 ft.

LOS GATOS HIGH SCHOOL
20 HIGH SCHOOL CT
LOS GATOS, CA

HIST CORTESE **S103639558**
LUST **N/A**
HIST LUST
SWEEPS UST
HAZNET

Relative:
Lower

Actual:
386 ft.

CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-2099

LUST:
Region: STATE
Global Id: T0608502328
Latitude: 37.22205
Longitude: -121.976277
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/29/1995

LOS GATOS HIGH SCHOOL (Continued) **S103639558**

Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	UST
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0608502328
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

Global Id:	T0608502328
Contact Type:	Regional Board Caseworker
Contact Name:	ZSC
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0608502328
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Region:	STATE
Global Id:	T0608501929
Latitude:	37.22138
Longitude:	-121.976004
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/25/1996
Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	UST
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LOS GATOS HIGH SCHOOL (Continued) **S103639558**

LUST:
Global Id: T0608501929
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

Global Id: T0608501929
Contact Type: Regional Board Caseworker
Contact Name: ZSC
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0608501929
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608501929
Action Type: ENFORCEMENT
Date: 02/14/1996
Action: Notice of Responsibility - #39254

Global Id: T0608501929
Action Type: RESPONSE
Date: 05/28/1996
Action: Other Report / Document

Global Id: T0608501929
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

Global Id: T0608501929
Action Type: ENFORCEMENT
Date: 05/17/1996
Action: Staff Letter - #19087

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W21F01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST

LOS GATOS HIGH SCHOOL (Continued) **S103639558**

Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W21F02f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/11/1996
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21F01F
Date Closed: 12/29/1995

Region: SANTA CLARA
SCVWD ID: 08S1W21F02F
Date Closed: 06/25/1996

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21F01
Oversite Agency: SCVWD
Date Listed: 1994-08-30 00:00:00
Closed Date: 1995-12-29 00:00:00

Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21F02
Oversite Agency: SCVWD
Date Listed: 1996-02-14 00:00:00
Closed Date: 1996-06-25 00:00:00

SWEEPS UST:
Status: Active
Comp Number: 56469
Number: 9
Board Of Equalization: 44-025909
Referral Date: 11-15-90
Action Date: 07-08-92
Created Date: 02-29-88
Tank Status: A

LOS GATOS HIGH SCHOOL (Continued) **S103639558**

Owner Tank Id: 1
Swrcb Tank Id: 43-003-056469-000001
Actv Date: 07-01-85
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: 1

Status: Not reported
Comp Number: 56469
Number: Not reported
Board Of Equalization: 44-025909
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 43-003-056469-000002
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: DIESEL
Number Of Tanks: 1

HAZNET:
Year: 2008
Gepaid: CAC002632947
Contact: BILL LEWIS
Telephone: 4082106077
Mailing Name: Not reported
Mailing Address: 448 QUEENS LN
Mailing City,St,Zip: SAN JOSE, CA 95112
Gen County: Santa Clara
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.005
Facility County: Santa Clara

Year: 2008
Gepaid: CAC002632947
Contact: BILL LEWIS
Telephone: 4082106077
Mailing Name: Not reported
Mailing Address: 448 QUEENS LN
Mailing City,St,Zip: SAN JOSE, CA 95112
Gen County: Santa Clara
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.4
Facility County: Santa Clara

21
North
1/4-1/2
0.275 mi.
1453 ft.

OLD TOWN CENTER
50 UNIVERSITY AVE
LOS GATOS, CA

HIST CORTESE **S103979940**
LUST **N/A**
HIST LUST
SWEEPS UST
HAZNET

Relative:
Lower

Actual:
407 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-2169

LUST:

Region:	STATE
Global Id:	T0608501993
Latitude:	37.223102
Longitude:	-121.981351
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/14/1997
Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	UST
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0608501993
Contact Type:	Regional Board Caseworker
Contact Name:	ZSC
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608501993
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

LUST:

Global Id:	T0608501993
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Region: STATE

OLD TOWN CENTER (Continued) **S103979940**

Global Id:	T0608502350
Latitude:	37.223117
Longitude:	-121.981529
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/12/1998
Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	UST
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0608502350
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

Global Id:	T0608502350
Contact Type:	Regional Board Caseworker
Contact Name:	ZSC
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0608502350
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	08S1W21E05f
How Discovered:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	10/29/1993
Pollution Characterization Began:	Not reported

OLD TOWN CENTER (Continued) **S103979940**

Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W21E06f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21E06F
Date Closed: 05/12/1998

Region: SANTA CLARA
SCVWD ID: 08S1W21E05F
Date Closed: 08/14/1997

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21E05
Oversite Agency: SCVWD
Date Listed: 1997-08-14 00:00:00
Closed Date: 1997-08-14 00:00:00

Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21E06
Oversite Agency: SCVWD
Date Listed: 1998-05-12 00:00:00
Closed Date: 1998-05-12 00:00:00

SWEEPS UST:
Status: Not reported
Comp Number: 78345
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 43-003-078345-000001
Actv Date: Not reported

OLD TOWN CENTER (Continued) **S103979940**

Capacity: 1
Tank Use: UNKNOWN
Stg: PRODUCT
Content: Not reported
Number Of Tanks: 1

HAZNET:
Year: 2000
Gepaid: CAC002296977
Contact: FEDERAL REALITY INVESTMENT TRU
Telephone: 4085916213
Mailing Name: Not reported
Mailing Address: 400 S WINCHESTER STE 100
Mailing City,St,Zip: SAN JOSE, CA 951280000
Gen County: Santa Clara
TSD EPA ID: WAD991281767
TSD County: 99
Waste Category: Latex waste
Disposal Method: Disposal, Land Fill
Tons: 1.0000
Facility County: Santa Clara

Year: 2000
Gepaid: CAC002296977
Contact: FEDERAL REALITY INVESTMENT TRU
Telephone: 4085916213
Mailing Name: Not reported
Mailing Address: 400 S WINCHESTER STE 100
Mailing City,St,Zip: SAN JOSE, CA 951280000
Gen County: Santa Clara
TSD EPA ID: WAD991281767
TSD County: 99
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Tons: .0900
Facility County: Santa Clara

Year: 2000
Gepaid: CAC002296977
Contact: FEDERAL REALITY INVESTMENT TRU
Telephone: 4085916213
Mailing Name: Not reported
Mailing Address: 400 S WINCHESTER STE 100
Mailing City,St,Zip: SAN JOSE, CA 951280000
Gen County: Santa Clara
TSD EPA ID: WAD991281767
TSD County: 99
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: Recycler
Tons: .1500
Facility County: Santa Clara

Year: 1997
Gepaid: CAC001167896
Contact: OLD TOWN LLC
Telephone: 4082554100
Mailing Name: Not reported

OLD TOWN CENTER (Continued) **S103979940**

Mailing Address:	20725 VALLEY GREEN DR
Mailing City,St,Zip:	CUPERTINO, CA 950140000
Gen County:	Santa Clara
TSD EPA ID:	NVD982358483
TSD County:	99
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	Not reported
Tons:	1.0000
Facility County:	Santa Clara

Year:	1997
Gepaid:	CAC000740536
Contact:	OLD TOWN LLC
Telephone:	4082554100
Mailing Name:	Not reported
Mailing Address:	20725 VALLEY GREEN DR
Mailing City,St,Zip:	CUPERTINO, CA 950140000
Gen County:	Santa Clara
TSD EPA ID:	CAL000027741
TSD County:	5
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	12.7128
Facility County:	Santa Clara

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

E22 **ANDALE PROPERTIES** **HIST CORTESE** **S102423985**
North **21 N SANTA CRUZ AVE** **LUST** **N/A**
1/4-1/2 **LOS GATOS, CA** **HIST LUST**
0.286 mi.
1511 ft. **Site 1 of 2 in cluster E**

Relative:
Lower

Actual:
416 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-0071

LUST:

Region:	STATE
Global Id:	T0608509299
Latitude:	37.223301
Longitude:	-121.983877
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/17/1992
Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	UST
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

ANDALE PROPERTIES (Continued) **S102423985**

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0608509299
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

Global Id: T0608509299
Contact Type: Regional Board Caseworker
Contact Name: ZSC
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0608509299
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608509299
Action Type: ENFORCEMENT
Date: 04/17/1992
Action: Closure/No Further Action Letter

Global Id: T0608509299
Action Type: RESPONSE
Date: 04/17/1992
Action: Other Report / Document

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W21E03f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

ANDALE PROPERTIES (Continued) **S102423985**

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21E03F
Date Closed: 04/17/1992

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21E03
Oversite Agency: SCVWD
Date Listed: 1992-02-24 00:00:00
Closed Date: 1992-04-17 00:00:00

E23 **LOS GATOS THEATER** **LUST** **S101594437**
North **41 N SANTA CRUZ AVE** **CA FID UST** **N/A**
1/4-1/2 **LOS GATOS, CA 95030** **HIST LUST**
0.316 mi. **SWEEPS UST**
1671 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
415 ft.

LUST:
Region: STATE
Global Id: T0608501156
Latitude: 37.22339
Longitude: -121.982452
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 09/29/1995
Lead Agency: SANTA CLARA COUNTY LOP
Case Worker: UST
Local Agency: SANTA CLARA COUNTY LOP
RB Case Number: Not reported
LOC Case Number: Not reported
File Location: Stored electronically as an E-file
Potential Media Affect: Soil
Potential Contaminants of Concern: Heating Oil / Fuel Oil
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0608501156
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

Global Id: T0608501156
Contact Type: Regional Board Caseworker
Contact Name: ZSC
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LOS GATOS THEATER (Continued) **S101594437**

LUST:
Global Id: T0608501156
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608501156
Action Type: ENFORCEMENT
Date: 09/29/1995
Action: Closure/No Further Action Letter

Global Id: T0608501156
Action Type: RESPONSE
Date: 07/02/1993
Action: Other Report / Document

Global Id: T0608501156
Action Type: ENFORCEMENT
Date: 02/25/1992
Action: Notice of Responsibility - #39253

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W21E04f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 2/10/1992
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21E04F
Date Closed: 09/29/1995

CA FID UST:
Facility ID: 43000936
Regulated By: UTNKI
Regulated ID: CAC000627
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 612 FLORENCE ST
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS GATOS 95030

LOS GATOS THEATER (Continued) **S101594437**

Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21E04
Oversite Agency: SCVWD
Date Listed: 1992-02-24 00:00:00
Closed Date: 1995-09-29 00:00:00

SWEEPS UST:
Status: Not reported
Comp Number: 7648
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 43-003-007648-000001
Actv Date: Not reported
Capacity: 1500
Tank Use: OIL
Stg: PRODUCT
Content: HEATING OIL
Number Of Tanks: 1

24
North
1/4-1/2
0.328 mi.
1734 ft.

LOS GATOS GAS WORKS **EDR MGP** **1008407711**
N CORNER ELM AND SANTA CRUZ AVE **N/A**
LOS GATOS, CA 95030

Relative:
Lower

Actual:
414 ft.

Manufactured Gas Plants:
Alternate Name:LOS GATOS LIGHT AND FUEL CO. No additional information available

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25
SSW
1/4-1/2
0.329 mi.
1737 ft.

TESTAROSSA WINEYARDS **NPDES** **S101308968**
300 COLLEGE AVE **HIST CORTESE** **N/A**
LOS GATOS, CA 95032 **LUST**
HIST LUST
CUPA Listings
WDS

Relative:
Higher

Actual:
872 ft.

NPDES:
Npdes Number: CAS000001
Facility Status: Active

TESTAROSSA WINEYARDS (Continued) **S101308968**

Agency Id:	0
Region:	2
Regulatory Measure Id:	184157
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	2 43I014555
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/03/1998
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Testarossa Vineyards
Discharge Address:	300A College Ave
Discharge City:	Los Gatos
Discharge State:	California
Discharge Zip:	95030

CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-0747

LUST:

Region:	STATE
Global Id:	T0608500773
Latitude:	37.428765
Longitude:	-122.144543
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/12/2001
Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	UST
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0608500773
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

Global Id:	T0608500773
Contact Type:	Regional Board Caseworker
Contact Name:	ZSC

TESTAROSSA WINEYARDS (Continued) **S101308968**

Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:
Global Id: T0608500773
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608500773
Action Type: ENFORCEMENT
Date: 10/12/1989
Action: Notice of Responsibility - #39255

Global Id: T0608500773
Action Type: ENFORCEMENT
Date: 05/02/1999
Action: Staff Letter - #18970

Global Id: T0608500773
Action Type: RESPONSE
Date: 07/30/1999
Action: Monitoring Report - Quarterly

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W21N01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 8/28/1987
Pollution Characterization Began: 12/1/1989
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21N01F
Date Closed: 07/12/2001

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21N01
Oversite Agency: SCVWD

TESTAROSSA WINEYARDS (Continued) **S101308968**

Date Listed: 1988-01-01 00:00:00
Closed Date: 2001-07-12 00:00:00

CUPA SANTA CLARA:
Region: SANTA CLARA
Program Description: A/G CORROSIVES QTY RANGE 1

Region: SANTA CLARA
Program Description: HAZMAT STORAGE FACILITY-MINIMAL STORAGE SITE

Region: SANTA CLARA
Program Description: APSA FACILITY-SPCC TEMPLATE (<10,000 GAL CAP)

Region: SANTA CLARA
Program Description: HAZ MAT STORAGE PROGRAM RECORD

Region: SANTA CLARA
Program Description: HAZMAT STORAGE & HMBP FACILITY, 4-6 CHEMICALS

CA WDS:
Facility ID: San Francisco Bay 43I014555
Facility Type: Not reported
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: TESTAROSSA VINEYARDS
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Not reported
SIC Code: 0
SIC Code 2: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as

TESTAROSSA WINEYARDS (Continued) **S101308968**

dairy waste ponds.

F26 **TOWN OF LOS GATOS COORPORATION YARD** **LUST** **S101594538**
NNE **41 MILES AVE** **CA FID UST** **N/A**
1/4-1/2 **LOS GATOS, CA 95032** **CUPA Listings**
0.366 mi. **SWEEPS UST**
1935 ft. **Site 1 of 4 in cluster F**

Relative:
Lower

Actual:
355 ft.

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21C01F
Date Closed: Not reported

CA FID UST:
Facility ID: 43004749
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4083546809
Mail To: Not reported
Mailing Address: 110 E MAIN ST
Mailing Address 2: Not reported
Mailing City,St,Zip: LOS GATOS 95032
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CUPA SANTA CLARA:
Region: SANTA CLARA
Program Description: UNDERGROUND TANKS - LG

Region: SANTA CLARA
Program Description: GENERATES 100 KG YR TO <5 TONS/YR

Region: SANTA CLARA
Program Description: HAZARDOUS MATERIALS - LONG FORM - LG

SWEEPS UST:
Status: Active
Comp Number: 40333
Number: 4
Board Of Equalization: 44-031933
Referral Date: 10-30-91
Action Date: 07-08-92
Created Date: 07-08-92
Tank Status: A
Owner Tank Id: 44-031933
Swrcb Tank Id: 43-003-040333-000001
Actv Date: 10-30-91
Capacity: 6000
Tank Use: M.V. FUEL

TOWN OF LOS GATOS COORPORATION YARD (Continued) **S101594538**

Stg: P
Content: DIESEL
Number Of Tanks: 2

Status: Active
Comp Number: 40333
Number: 4
Board Of Equalization: 44-031933
Referral Date: 10-30-91
Action Date: 07-08-92
Created Date: 07-08-92
Tank Status: A
Owner Tank Id: 44-031933
Swrcb Tank Id: 43-003-040333-000002
Actv Date: 10-30-91
Capacity: 8000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

F27 **TOWN OF LOS GATOS CORP YRD** **RCRA NonGen / NLR** **1000305736**
NNE **41 MILES AVE** **FINDS** **CAD981161326**
1/4-1/2 **LOS GATOS, CA 95030** **SLIC**
0.366 mi. **HAZNET**
1935 ft. **Site 2 of 4 in cluster F**

Relative:
Lower

Actual:
355 ft.

RCRA NonGen / NLR:
Date form received by agency: 07/18/2002
Facility name: TOWN OF LOS GATOS CORP YRD
Facility address: 41 MILES AVE
LOS GATOS, CA 95030
EPA ID: CAD981161326
Mailing address: P O BOX 949
LOS GATOS, CA 95031
Contact: BRUCE SMITH
Contact address: 110 E MAIN ST
LOS GATOS, CA 95030
Contact country: US
Contact telephone: (408) 399-5778
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: TOWN OF LOS GATOS

TOWN OF LOS GATOS CORP YRD (Continued) **1000305736**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Facility name: TOWN OF LOS GATOS CORP YRD
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110008265563

Environmental Interest/Information System
The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/02/2009

TOWN OF LOS GATOS CORP YRD (Continued) **1000305736**

Global Id:	T0608591773
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number:	Not reported
Latitude:	37.224461
Longitude:	-121.979996
Case Type:	Cleanup Program Site
Case Worker:	UUU
Local Agency:	Not reported
RB Case Number:	43-1948
File Location:	Not reported
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HAZNET:

Year:	1994
Gepaid:	CAC000885616
Contact:	TOWN OF LOS GATOS
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	110 E MAIN ST
Mailing City,St,Zip:	LOS GATOS, CA 950300000
Gen County:	Santa Clara
TSD EPA ID:	CAD050806850
TSD County:	Los Angeles
Waste Category:	Unspecified aqueous solution
Disposal Method:	Transfer Station
Tons:	.1200
Facility County:	Santa Clara

Year:	1994
Gepaid:	CAC000885616
Contact:	TOWN OF LOS GATOS
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	110 E MAIN ST
Mailing City,St,Zip:	LOS GATOS, CA 950300000
Gen County:	Santa Clara
TSD EPA ID:	CAD050806850
TSD County:	Los Angeles
Waste Category:	Other inorganic solid waste
Disposal Method:	Transfer Station
Tons:	3.2000
Facility County:	Santa Clara

F28 **LOS GATOS TOWN CORPORATION** **SLIC S101303626**
NNE **41 MILES AVE** **HIST LUST N/A**
1/4-1/2 **LOS GATOS, CA 95030**
0.366 mi.
1935 ft. **Site 3 of 4 in cluster F**

Relative:
Lower

Actual:
355 ft.

SLIC REG 2:

Region:	2
Facility ID:	43-1948
Facility Status:	Preliminary site assessment underway

LOS GATOS TOWN CORPORATION (Continued) **S101303626**

Date Closed: Not reported
Local Case #: 08S1W21C01
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: 2/28/1988
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21C01
Oversite Agency: SFRWQCB
Date Listed: 1988-01-01 00:00:00
Closed Date: Not reported

F29 **TOWN OF LOS GATOS - CORPORATE YARD** **SLIC S101542477**
NNE **41 MILES AVE** **HAZNET N/A**
1/4-1/2 **LOS GATOS, CA 95030**
0.366 mi.
1935 ft. **Site 4 of 4 in cluster F**

Relative:
Lower

Actual:
355 ft.

SLIC REG 2:
Region: 2
Facility ID: 43S0876
Facility Status: Preliminary site assessment underway
Date Closed: Not reported
Local Case #: Not reported
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Confirmed: Not reported
Date Prelim Site Assmnt Workplan Submitted: Not reported
Date Preliminary Site Assessment Began: 12/23/1990
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HAZNET:
Year: 2011
Gepaid: CAL000312782
Contact: CHRISTINE WOLTER
Telephone: 4083995777
Mailing Name: Not reported
Mailing Address: 41 MILES AVE
Mailing City,St,Zip: LOS GATOS, CA 950306044
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

TOWN OF LOS GATOS - CORPORATE YARD (Continued) **S101542477**

(H010-H129) Or (H131-H135)
Tons: 0.1
Facility County: Santa Clara

Year: 2011
Gepaid: CAL000312782
Contact: CHRISTINE WOLTER
Telephone: 4083995777
Mailing Name: Not reported
Mailing Address: 41 MILES AVE
Mailing City,St,Zip: LOS GATOS, CA 950306044
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05
Facility County: Santa Clara

Year: 2011
Gepaid: CAL000312782
Contact: CHRISTINE WOLTER
Telephone: 4083995777
Mailing Name: Not reported
Mailing Address: 41 MILES AVE
Mailing City,St,Zip: LOS GATOS, CA 950306044
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.1176
Facility County: Santa Clara

Year: 2011
Gepaid: CAL000312782
Contact: CHRISTINE WOLTER
Telephone: 4083995777
Mailing Name: Not reported
Mailing Address: 41 MILES AVE
Mailing City,St,Zip: LOS GATOS, CA 950306044
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Household waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.005
Facility County: Santa Clara

Year: 2011
Gepaid: CAL000312782
Contact: CHRISTINE WOLTER
Telephone: 4083995777
Mailing Name: Not reported

TOWN OF LOS GATOS - CORPORATE YARD (Continued) **S101542477**

Mailing Address: 41 MILES AVE
Mailing City,St,Zip: LOS GATOS, CA 950306044
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.05
Facility County: Santa Clara

Click this hyperlink while viewing on your computer to access
9 additional CA_HAZNET: record(s) in the EDR Site Report.

30
NNW
1/4-1/2
0.378 mi.
1996 ft.

BRUNNER'S W.VALLEY CHAPEL MOR.
300 W MAIN ST
LOS GATOS, CA

LUST **S105193448**
HIST LUST **N/A**

Relative:
Lower

Actual:
434 ft.

LUST:
Region: STATE
Global Id: T0608500265
Latitude: 37.2236479316656
Longitude: -121.98606133461
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/02/1993
Lead Agency: SANTA CLARA COUNTY LOP
Case Worker: UST
Local Agency: SANTA CLARA COUNTY LOP
RB Case Number: Not reported
LOC Case Number: Not reported
File Location: Stored electronically as an E-file
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0608500265
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

Global Id: T0608500265
Contact Type: Regional Board Caseworker
Contact Name: ZSC
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

BRUNNER'S W.VALLEY CHAPEL MOR. (Continued) **S105193448**

LUST:
Global Id: T0608500265
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608500265
Action Type: RESPONSE
Date: 08/30/1993
Action: Other Report / Document

Global Id: T0608500265
Action Type: ENFORCEMENT
Date: 11/02/1993
Action: Closure/No Further Action Letter

Global Id: T0608500265
Action Type: ENFORCEMENT
Date: 11/02/1991
Action: Notice of Responsibility - #39248

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W20H01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 10/24/1991
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W20H01F
Date Closed: 11/02/1993

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W20H01
Oversite Agency: SCVWD
Date Listed: 1990-01-01 00:00:00
Closed Date: 1993-11-02 00:00:00

31
North
1/4-1/2
0.385 mi.
2033 ft.

TOWN OF LOS GATOS PARKING LOT
20 GRAYS LN
LOS GATOS, CA

HIST CORTESE
LUST
HIST LUST
HAZNET

S103639555
N/A

Relative:
Lower

Actual:
400 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	43
Reg By:	LTNKA
Reg Id:	43-1833

LUST:

Region:	STATE
Global Id:	T0608501760
Latitude:	37.224749
Longitude:	-121.980934
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/16/1994
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	UNK
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	43-1833
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0608501760
Contact Type:	Regional Board Caseworker
Contact Name:	RB 2
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0608501760
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

LUST:

Global Id:	T0608501760
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0608501760
Action Type:	RESPONSE

TOWN OF LOS GATOS PARKING LOT (Continued) **S103639555**

Date: 03/05/1997
Action: Other Report / Document

Global Id: T0608501760
Action Type: ENFORCEMENT
Date: 06/16/1994
Action: Closure/No Further Action Letter

Global Id: T0608501760
Action Type: ENFORCEMENT
Date: 02/06/1997
Action: Staff Letter

LUST REG 2:
Region: 2
Facility Id: 43-1833
Facility Status: Case Closed
Case Number: 08S1W21E02f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 3/29/1990
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21E02F
Date Closed: 06/16/1994

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21E02
Oversite Agency: SFRWQCB
Date Listed: 1990-10-17 00:00:00
Closed Date: 1994-06-16 00:00:00

HAZNET:
Year: 1997
Gepaid: CAL000006767
Contact: SOLTAN ROLF
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 20 GRAYS LN
Mailing City,St,Zip: LOS GATOS, CA 950300000
Gen County: Santa Clara
TSD EPA ID: CAD982444481
TSD County: San Bernardino

TOWN OF LOS GATOS PARKING LOT (Continued) **S103639555**

Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Not reported
Tons: .2293
Facility County: Santa Clara

G32 **KITTEN ASSOCIATES** **HIST CORTESE S102432248**
North **120 N SANTA CRUZ AVE** **LUST N/A**
1/4-1/2 **LOS GATOS, CA** **HIST LUST**
0.408 mi.
2154 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
402 ft.

CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0790

LUST:
Region: STATE
Global Id: T0608500809
Latitude: 37.2249123088829
Longitude: -121.982553005219
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 10/17/1990
Lead Agency: SANTA CLARA COUNTY LOP
Case Worker: UST
Local Agency: SANTA CLARA COUNTY LOP
RB Case Number: Not reported
LOC Case Number: Not reported
File Location: Stored electronically as an E-file
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0608500809
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP
Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

Global Id: T0608500809
Contact Type: Regional Board Caseworker
Contact Name: ZSC
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

LUST:

KITTEN ASSOCIATES (Continued) **S102432248**

Global Id: T0608500809
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608500809
Action Type: ENFORCEMENT
Date: 10/19/1990
Action: Closure/No Further Action Letter

Global Id: T0608500809
Action Type: RESPONSE
Date: 05/19/1989
Action: Other Report / Document

Global Id: T0608500809
Action Type: ENFORCEMENT
Date: 02/26/1990
Action: Notice of Responsibility - #39251

Global Id: T0608500809
Action Type: REMEDIATION
Date: 01/01/1950
Action: Excavation

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W21D02f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 6/26/1990
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21D02F
Date Closed: 10/17/1990

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21D02
Oversite Agency: SCVWD
Date Listed: 1991-01-01 00:00:00
Closed Date: 1990-10-17 00:00:00

G33 **GROEN PROPERTY** **LUST** **S105512825**
North **122 N SANTA CRUZ** **HIST LUST** **N/A**
1/4-1/2 **LOS GATOS, CA 95030**
0.412 mi.
2175 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
402 ft.

LUST:

Region:	STATE
Global Id:	T0608508282
Latitude:	37.224894
Longitude:	-121.982368
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/15/2001
Lead Agency:	SANTA CLARA COUNTY LOP
Case Worker:	UST
Local Agency:	SANTA CLARA COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST:

Global Id:	T0608508282
Contact Type:	Local Agency Caseworker
Contact Name:	UST CASE WORKER
Organization Name:	SANTA CLARA COUNTY LOP
Address:	1555 Berger Drive, Suite 300
City:	SAN JOSE
Email:	Not reported
Phone Number:	4089183400

Global Id:	T0608508282
Contact Type:	Regional Board Caseworker
Contact Name:	ZSC
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)
Address:	1515 CLAY STREET, SUITE 1400
City:	OAKLAND
Email:	Not reported
Phone Number:	Not reported

LUST:

Global Id:	T0608508282
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	08S1W21D03f
How Discovered:	Not reported
Leak Cause:	Not reported

GROEN PROPERTY (Continued) **S105512825**

Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 3/27/2001
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21D03
Oversite Agency: SCVWD
Date Listed: 2002-01-01 00:00:00
Closed Date: 2001-10-15 00:00:00

H34 **FORMER MOBIL STATION 04-F2M** **LUST** **U001601404**
North **155 N SANTA CRUZ AVE** **HIST UST** **N/A**
1/4-1/2 **LOS GATOS, CA**
0.461 mi.
2433 ft. **Site 1 of 3 in cluster H**

Relative:
Lower

Actual:
399 ft.

LUST:
Region: STATE
Global Id: T0608500921
Latitude: 37.225439
Longitude: -121.981504
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 02/06/1997
Lead Agency: SANTA CLARA COUNTY LOP
Case Worker: UST
Local Agency: SANTA CLARA COUNTY LOP
RB Case Number: Not reported
LOC Case Number: Not reported
File Location: Stored on Microfiche
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LUST:
Global Id: T0608500921
Contact Type: Regional Board Caseworker
Contact Name: ZSC
Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY STREET, SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Global Id: T0608500921
Contact Type: Local Agency Caseworker
Contact Name: UST CASE WORKER
Organization Name: SANTA CLARA COUNTY LOP

FORMER MOBIL STATION 04-F2M (Continued) **U001601404**

Address: 1555 Berger Drive, Suite 300
City: SAN JOSE
Email: Not reported
Phone Number: 4089183400

LUST:
Global Id: T0608500921
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0608500921
Action Type: ENFORCEMENT
Date: 07/02/1992
Action: Notice of Responsibility - #39250

LUST SANTA CLARA:
Region: SANTA CLARA
SCVWD ID: 08S1W21D01F
Date Closed: 02/06/1997

HIST UST:
Region: STATE
Facility ID: 00000039639
Facility Type: Gas Station
Other Type: Not reported
Total Tanks: 0004
Contact Name: HAMILTON BASS
Telephone: 4083549752
Owner Name: MOBIL OIL CORPORATION
Owner Address: 612 SO. FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90017

Tank Num: 001
Container Num: 1
Year Installed: 1972
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 002
Container Num: 2
Year Installed: 1955
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 003
Container Num: 3
Year Installed: 1955
Tank Capacity: 00006000

FORMER MOBIL STATION 04-F2M (Continued) **U001601404**

Tank Used for: PRODUCT
Type of Fuel: 06
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 004
Container Num: 4
Year Installed: 1955
Tank Capacity: 00000285
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Visual

H35 **MOBIL** **LUST S105034855**
North **155 N SANTA CRUZ AVE** **HIST LUST N/A**
1/4-1/2 **LOS GATOS, CA 95030**
0.461 mi.
2433 ft. **Site 2 of 3 in cluster H**

Relative:
Lower

Actual:
399 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 08S1W21D01f
How Discovered: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/27/1987
Pollution Characterization Began: 1/27/1987
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

HIST LUST SANTA CLARA:
Region: SANTA CLARA
Region Code: 2
SCVWD ID: 08S1W21D01
Oversite Agency: SCVWD
Date Listed: 1988-01-01 00:00:00
Closed Date: 1997-02-06 00:00:00

H36 **MOBIL** **HIST CORTESE S104396934**
North **155 SANTA CRUZ** **N/A**
1/4-1/2 **LOS GATOS, CA 95030**
0.461 mi.
2436 ft. **Site 3 of 3 in cluster H**

Relative:
Lower

Actual:
399 ft.

CORTESE:
Region: CORTESE
Facility County Code: 43
Reg By: LTNKA
Reg Id: 43-0915

Count: 10 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOS GATOS	S110041771	WILLIAMS TANK LINES FUEL SPILL	HWY 17	95033	SLIC
LOS GATOS	S110743423	AT&T MOBILITY-HWY 17-SC VISITOR CT	22970TH & SANTA CRUZ HWY	95033	CUPA Listings
LOS GATOS	S112346766	SPRINT PCS-SF13XC601	ALMA BRIDGE RD & STATE 17	95033	CUPA Listings
LOS GATOS	S112347097	VERIZON WIRELESS: LEXINGTON RESERV	ALMA BRIDGE RD & STATE 17	95033	CUPA Listings
LOS GATOS	1003878924	PG&E GAS PLANT LOS GATOS	N COR ELM & SANTA CRUZ AVE	95030	CERC-NFRAP
LOS GATOS	1003878636	PACIFIC RAILWAY SIGNALS COLUMBIA P	DAVES AVE	95030	CERC-NFRAP
LOS GATOS	S112345642	CPMWC-MOODY GULCH TREATMENT PLANT	OLD SANTA CRUZ HWY & OGALL	95033	CUPA Listings
LOS GATOS	S103881408	FRANK, WILLIAM	19800 SANTA CRUZ HWY	95030	HIST CORTESE, LUST
LOS GATOS	S107996016	GROEN PROPERTY	122 N SANTA CRUZ		LUST
LOS GATOS	S108219574	SAN JOSE WATER CO	18300 STATE HIGHWAY 17	95033	NPDES, CUPA Listings, HAZNET

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 70

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 70

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 70

Source: EPA
Telephone: N/A
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/07/2013
Number of Days to Update: 40

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 10/09/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/11/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/07/2013
Number of Days to Update: 40

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 29

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 12/05/2012
Date Data Arrived at EDR: 12/06/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 12/05/2012
Date Data Arrived at EDR: 12/06/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 01/04/2013
Number of Days to Update: 46

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 12/17/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 39

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 01/31/2013
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 12/17/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 39

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 01/31/2013
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/17/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 38

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 01/31/2013
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-5092
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 12/05/2012
Date Data Arrived at EDR: 12/06/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 40
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 02/14/2013
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 36
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/20/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 01/04/2013
Number of Days to Update: 45
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 12/05/2012
Date Data Arrived at EDR: 12/06/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2012
Date Data Arrived at EDR: 09/12/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 12/17/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/21/2013
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 03/28/2012
Date Data Arrived at EDR: 05/01/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 24

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/29/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 12/17/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/21/2013
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 01/31/2013
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 12/17/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 39

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 01/31/2013
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/19/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 62

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012
Date Data Arrived at EDR: 03/14/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/05/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 57

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

UIC: UIC Listing

A listing of underground control injection wells.

Date of Government Version: 10/17/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 35

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/21/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 12/11/2012
Date Data Arrived at EDR: 12/12/2012
Date Made Active in Reports: 01/04/2013
Number of Days to Update: 23

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/16/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 01/21/2013
Number of Days to Update: 62

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/08/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/06/2012
Number of Days to Update: 14

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/18/2010
Number of Days to Update: 19

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 36

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/20/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 12/07/2012
Date Data Arrived at EDR: 12/12/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 34

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/15/2013
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/26/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/09/2013
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/26/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 01/04/2013
Number of Days to Update: 45

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 03/01/2007
Date Data Arrived at EDR: 06/01/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: N/A

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 32

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Quarterly

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 11/15/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 91

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/16/2013
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 36

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/16/2013
Date Data Arrived at EDR: 01/17/2013
Date Made Active in Reports: 01/31/2013
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 12/20/2012
Date Data Arrived at EDR: 01/04/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 49

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/20/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 10/16/2012
Date Data Arrived at EDR: 10/17/2012
Date Made Active in Reports: 11/13/2012
Number of Days to Update: 27

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 01/04/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 49

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/20/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 01/04/2013
Date Data Arrived at EDR: 01/14/2013
Date Made Active in Reports: 03/01/2013
Number of Days to Update: 46

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/27/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 48

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/09/2013
Date Data Arrived at EDR: 01/10/2013
Date Made Active in Reports: 02/25/2013
Number of Days to Update: 46

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/08/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/20/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 56

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/04/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 02/07/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 03/01/2013
Number of Days to Update: 21

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 01/22/2013
Number of Days to Update: 32

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 05/01/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 06/11/2012
Number of Days to Update: 40

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/26/2012
Date Data Arrived at EDR: 06/27/2012
Date Made Active in Reports: 08/17/2012
Number of Days to Update: 51

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 07/10/2012
Date Data Arrived at EDR: 07/12/2012
Date Made Active in Reports: 09/06/2012
Number of Days to Update: 56

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 33

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/22/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/31/2012
Date Data Arrived at EDR: 12/28/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 28

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/16/2012
Next Scheduled EDR Contact: 10/26/2012
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/22/2012
Date Data Arrived at EDR: 10/23/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 38

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/22/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 12/29/2011
Date Data Arrived at EDR: 02/02/2012
Date Made Active in Reports: 02/21/2012
Number of Days to Update: 19

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 10/23/2012
Date Data Arrived at EDR: 10/25/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 36

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/29/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/14/2013
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 01/31/2013
Number of Days to Update: 16

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county?s Certified Unified Program Agency database. California?s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 50

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 11/26/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/21/2013
Number of Days to Update: 54

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 03/05/2013
Number of Days to Update: 74

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 12/26/2012
Date Data Arrived at EDR: 01/08/2013
Date Made Active in Reports: 02/25/2013
Number of Days to Update: 48

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 50

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 24
Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 17
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/13/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/16/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 17
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/15/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 18
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/12/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/11/2012
Date Data Arrived at EDR: 12/12/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 34

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/16/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/26/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/16/2012
Date Data Arrived at EDR: 10/18/2012
Date Made Active in Reports: 11/07/2012
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/26/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/29/2012
Date Data Arrived at EDR: 01/10/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 43

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/02/2012
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 38

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/12/2012
Date Data Arrived at EDR: 12/18/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 38

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/20/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 44

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 01/02/2013
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/30/2012
Number of Days to Update: 24

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 12/18/2012
Date Data Arrived at EDR: 12/21/2012
Date Made Active in Reports: 01/30/2013
Number of Days to Update: 40

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 01/22/2013
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/26/2012
Date Data Arrived at EDR: 11/26/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 52

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/12/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/12/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/22/2013
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/12/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 01/08/2013
Date Data Arrived at EDR: 01/10/2013
Date Made Active in Reports: 02/08/2013
Number of Days to Update: 29

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 12/03/2012
Date Data Arrived at EDR: 12/05/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 41

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/13/2012
Date Data Arrived at EDR: 11/14/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 19

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/29/2012
Date Data Arrived at EDR: 11/30/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 46

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/27/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/17/2013
Number of Days to Update: 50

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 12/12/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/22/2013
Number of Days to Update: 36

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/12/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 12/12/2012
Date Data Arrived at EDR: 12/17/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 39

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/12/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 01/10/2013
Date Data Arrived at EDR: 01/16/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 42

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 01/08/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 23

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/14/2013
Date Data Arrived at EDR: 01/16/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 42

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/30/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/06/2012
Number of Days to Update: 42

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/21/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 10/29/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 12/03/2012
Number of Days to Update: 27

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/29/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 12/04/2012
Date Data Arrived at EDR: 12/20/2012
Date Made Active in Reports: 01/25/2013
Number of Days to Update: 36

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/17/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/19/2012
Date Data Arrived at EDR: 12/28/2012
Date Made Active in Reports: 01/30/2013
Number of Days to Update: 33

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/16/2012
Date Data Arrived at EDR: 08/16/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 48

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 01/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/18/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 12/11/2012
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/13/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PHASE I ESA
100 & 200 PROSPECT AVENUE
LOS GATOS, CA 95030

TARGET PROPERTY COORDINATES

Latitude (North):	37.2172 - 37° 13' 1.92''
Longitude (West):	121.9822 - 121° 58' 55.92''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	590305.1
UTM Y (Meters):	4119249.0
Elevation:	603 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	37121-B8 LOS GATOS, CA
Most Recent Revision:	1980
West Map:	37122-B1 CASTLE ROCK RIDGE, CA
Most Recent Revision:	1999

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

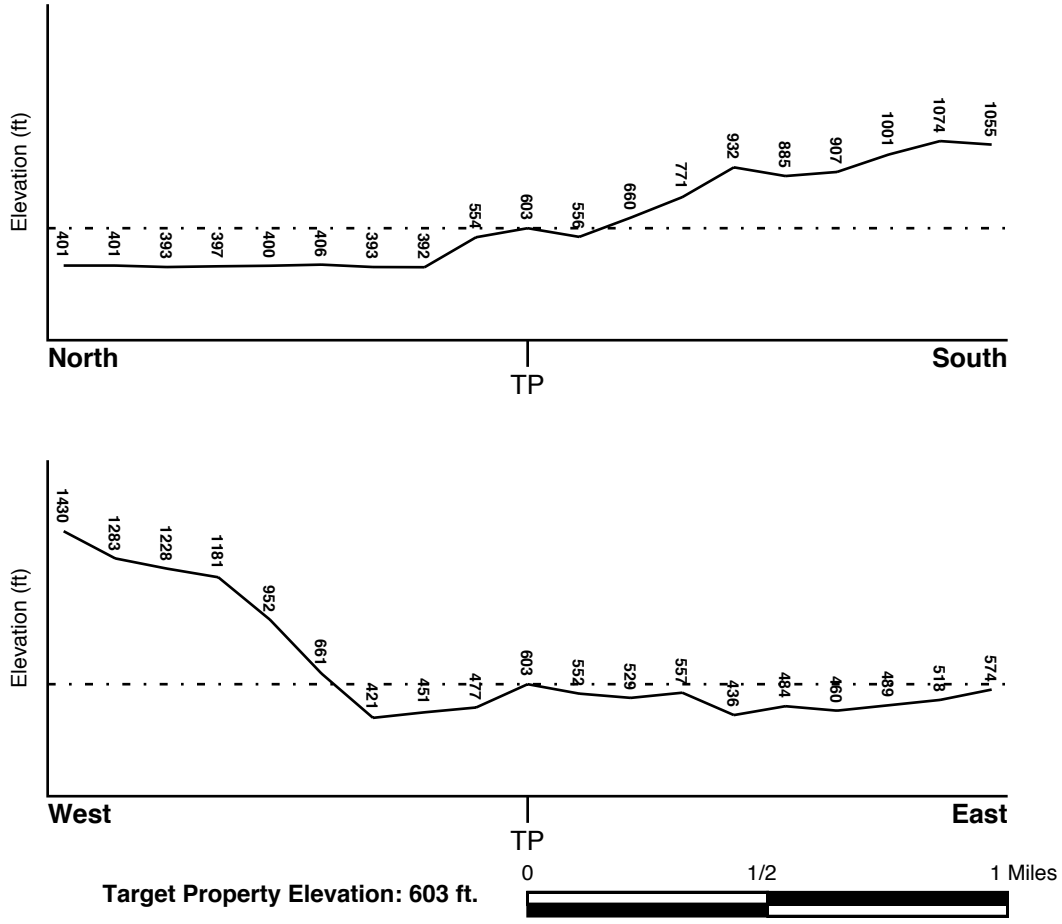
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
SANTA CLARA, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06085C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LOS GATOS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/4 - 1/2 Mile North
Site Name:	PG&E GAS PLANT LOS GATOS
Site EPA ID Number:	CAD981415847
Groundwater Flow Direction:	East-Southeast
Measured Depth to Water:	7 feet to 20 feet.
Hydraulic Connection:	The near-surface water table aquifer is unconfined above the bedrock. Near-surface soils include gravel, sand, gravelly clays, and clean/silty sands and clays. Bedrock is present at depths of 11 feet to 42 feet.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Mesozoic
Code:	uMze*(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	VALLECITOS
Soil Surface Texture:	loam
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 20 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 6.10
2	6 inches	16 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 7.30 Min: 6.60
3	16 inches	20 inches	unweathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
gravelly - loam
gravelly - clay loam
stony - clay loam
sand
fine sandy loam
unweathered bedrock
silty clay loam
silty clay
clay loam
silt loam

Surficial Soil Types:
gravelly - loam
gravelly - clay loam
stony - clay loam
sand
fine sandy loam
unweathered bedrock
silty clay loam
silty clay
clay loam
silt loam

Shallow Soil Types:
gravelly - clay loam
very gravelly - clay loam
silty clay

Deeper Soil Types:
stratified
loam
clay loam
weathered bedrock

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

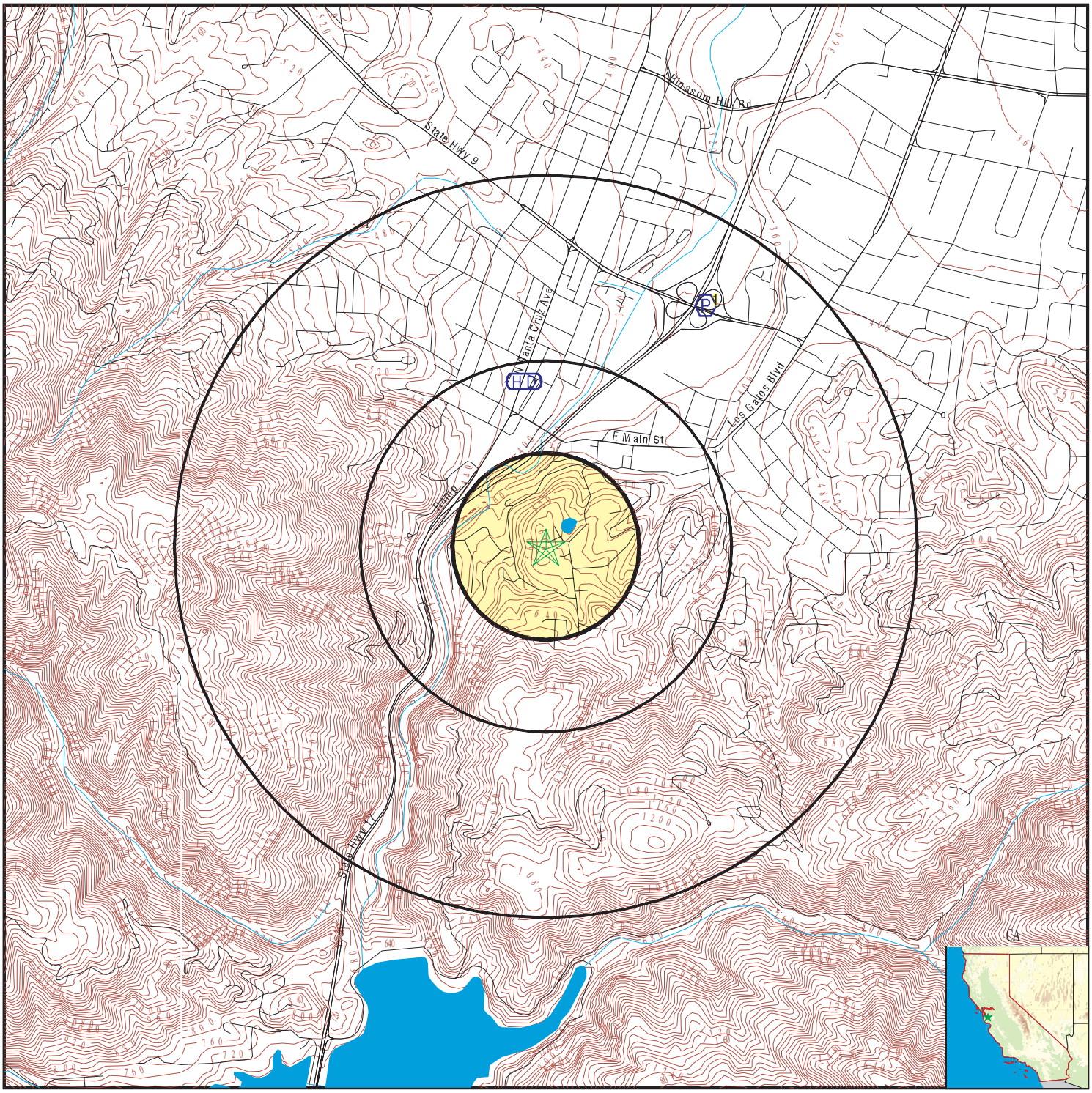
MAP ID	WELL ID	LOCATION FROM TP
1	CA1000299	1/2 - 1 Mile NNE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 3535320.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Phase I ESA	CLIENT:	Cornerstone Earth Group
ADDRESS:	100 & 200 Prospect Avenue Los Gatos CA 95030	CONTACT:	Stason Foster
LAT/LONG:	37.2172 / 121.9822	INQUIRY #:	3535320.1s
		DATE:	March 05, 2013 10:32 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NNE **FRDS PWS** **CA1000299**
1/2 - 1 Mile
Lower

PWS ID: CA1000299
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: ARCADE TRAILER PARK
FRESNO, CA 93705

Addressee / Facility: System Owner/Responsible Party
ARCADE TRAILER PARK
16232 BROOKE ACRES COURT
LOS GATOS, CA 95030

Facility Latitude: 37 13 36 Facility Longitude: 121 58 24
City Served: Not Reported
Treatment Class: Untreated Population: 202

Violations information not reported.

ENFORCEMENT INFORMATION:

Truedate: 03/31/2009 Pwsid: CA1000299
Pwsname: THREE PALMS MOBILEHOME PARK
Retpopsrvd: 202 Pwstypecod: C
Vioid: 0812001 Contaminant: COLIFORM (TCR)
Viol. Type: Monitoring, Repeat Major (TCR)
Complperbe: 6/1/2008 0:00:00
Complperen: 6/30/2008 0:00:00 Enfdate: No Enf Action as of
Enf action: 7/8/2009 0:00:00
Violmeasur: Not Reported

Truedate: 03/31/2009 Pwsid: CA1000299
Pwsname: THREE PALMS MOBILEHOME PARK
Retpopsrvd: 202 Pwstypecod: C
Vioid: 0812002 Contaminant: COLIFORM (TCR)
Viol. Type: Monitoring, Routine Major (TCR)
Complperbe: 7/1/2008 0:00:00
Complperen: 7/31/2008 0:00:00 Enfdate: No Enf Action as of
Enf action: 7/8/2009 0:00:00
Violmeasur: Not Reported

Truedate: 03/31/2009 Pwsid: CA1000299
Pwsname: THREE PALMS MOBILEHOME PARK
Retpopsrvd: 202 Pwstypecod: C
Vioid: 95V0001 Contaminant: LEAD & COPPER RULE
Viol. Type: Initial Tap Sampling for Pb and Cu
Complperbe: 7/1/1993 0:00:00
Complperen: 12/31/2003 0:00:00 Enfdate: 12/31/2003 0:00:00
Enf action: Fed Compliance Achieved
Violmeasur: 0

System Name: THREE PALMS MOBILEHOME PARK
Violation Type: Initial Tap Sampling for Pb and Cu
Contaminant: LEAD & COPPER RULE
Compliance Period: 07/01/93 - 12/31/03
Violation ID: 95V0001
Enforcement Date: 12/31/03 Enf. Action: Fed Compliance Achieved

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	ARCADE ESTATES		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2015-12-31		
Violation ID:	95V0001		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	THREE PALMS MOBILEHOME PARK		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	7/1/1993 0:00:00 - 12/31/2003 0:00:00		
Violation ID:	95V0001		
Enforcement Date:	12/31/2003 0:00:00	Enf. Action:	Fed Compliance Achieved
System Name:	ARCADE TRAILER PARK		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2015-12-31		
Violation ID:	95V0001		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	ARCADE TRAILER PARK		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2015-12-31		
Violation ID:	95V0001		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

CONTACT INFORMATION:

Name:	THREE PALMS MOBILEHOME PARK	Population:	202
Contact:	Kelly Barrena	Phone:	Not Reported
Address:	1941 N GOLDEN STATE BLVD		
Address 2:	Fresno		
	CA, 93 55926		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95030	24	5

Federal EPA Radon Zone for SANTA CLARA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SANTA CLARA COUNTY, CA

Number of sites tested: 70

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.363 pCi/L	91%	9%	0%
Living Area - 2nd Floor	2.100 pCi/L	100%	0%	0%
Basement	2.300 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

CORNERSTONE EARTH GROUP

APPENDIX C – SELECTED FIRE AND BUILDING DEPARTMENT RECORDS

BH

Convent of the Holy Names
200 Prospect Avenue
P.O. Box 1906
Los Gatos, California 95030

February 5, 1987

Robert Holston, R.S.
Office of Hazardous Materials
2220 Moorpark Avenue
San Jose, CA 95128

Dear Holston,

A letter of explanation seems necessary to accompany this application for a flammable liquids permit.

In April of 1977, we had installed a tank for automobile fuel. This tank is used for in-house service only. It services only cars owned by the Sisters of the Holy Names and operated out of this residence. Access is limited to the sister drivers residing at 200 Prospect.

The gas consumption is measured weekly by our maintenance department. Consumption varies from month to month but generally averages around 1200 gallons.

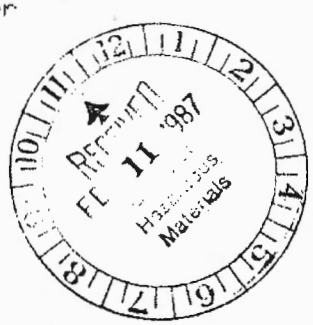
Photographs of the installation and location are available if needed.

If there is any additional information necessary, I will be happy to research and provide it for you.

Sincerely yours,

Sister Mary Sullivan

Sister Mary Sullivan
Convent of the Holy Names
Plant Manager/Treasurer



Office of Hazardous Materials
Santa Clara County Health Department
[illegible] Park Avenue
San Jose, California 95113

PLAN CHECK

File

☑ Approved
☐ Disapproved BY: R Holston
DATE 3-25-87

MONITORING PLAN FOR UNDERGROUND TANK STORAGE OF HAZARDOUS MATERIALS

1. Purpose

This Plan represents an element of the Hazardous Materials Management Plan of:

Convent of the Holy Names
P.O. Box 906
Los Gatos, California 95031

for the hazardous materials tank storage facility located at

200 Prospect Avenue, Los Gatos, California

Specifically, the Plan provides for the monitoring of underground tank storage (commercial motor fuel storage facility).

2. Description of underground tank storage facility.

The facility is used for day to day operations by the Convent of the Holy Names and consists of one 1,200 gallon tank containing gasoline. The situation of this tank with respect to other structures on the property is illustrated in attached Figure 1.

3. Proposed action

The proposed action provides for the installation of one monitoring well in the backfill of the storage tank. The well will be installed to obtain either vapor samples from the tank backfill if the bottom of the backfill is above the groundwater table, or to obtain water samples if the bottom of the backfill is below the groundwater table. The installation of the well will conform to the Guidelines (Guidelines) of the Santa Clara Valley Water District, and the monitoring will conform to the specifications of the designated administering agency.

3.a. Installation

3.a.1. Monitoring well GX-95 will be installed in the storage tank backfill in accordance with the provisions of the Guidelines as illustrated in attached Figure 2.

3.a.2. A vapor sample will be obtained at the time the well is installed.

3.a.3. The soil test results and all relevant observations associated with installing the monitoring well will be reported to the City of Los Gatos or its designated administering agency.

3.b. Monitoring

Monitoring will be conducted according to the Guidelines as required by the appropriate Regulatory Agency.

3.b.1. Monitoring will be performed as required, following the installation of the well. Vapor monitoring will be performed using a Draeger Gas Detection system. A third party will monitor the well every six months.

3.b.2. Monitoring results will be recorded. Positive results (greater than 500 PPM) will be reported to the City of Los Gatos, or its designated administering agency, as required.

4. Authorization of agent

Convent of the Holy Names has authorized Geonomics, Inc. of Campbell, California, to prepare and submit this Plan and also to provide for and supervise the installation of the monitoring well.

Sister Mary Sullivan
Convent of the Holy Names

Roger D. Dockter
Geonomics, Inc.

3-16-87
Date

SANTA CLARA COUNTY
CENTRAL FIRE PROTECTION DISTRICT

DATE	DESCRIPTION OF JOB	
2/21/89	Talked with Onsite Technologies - twice annual vapor	1 hr
	inspections being performed - OK to issue	
~~2/29/89~~	~~Hazdous Waste Monitoring Letter~~	K-11
4/5/90	Haz Mat Storage Permit	
4/16/90	HM Inspection	K-11
5/9/91	" " Permit OK to issue	K-11
6/7/91	Haz Mat Permit / exp May 31, 1992	K-11
8/21/90	SWEEPS	K-11
1/23/92	Insp. Notice - OK to issue permit	K-11
3/9/92	Haz Mat Permit - exp 4/30/93	K-11
3/3/93	Inspection notice	KH
9-8-94	#94-0794 INSPECTION FOR REMOVAL OF ONE-2000 GAL. FUEL TANK	2K17
9/28/94	Written report from All Chem re: 9/8/94. Tank removal	W4
5/3/95	Letter and Cert. of Insurance 5-18-94	K-22
	Use Gen'l File Bla Sheet for	
	all Entries.	
	George	

CFD 03836 Patterson

03/85 :1g

file

ALL CHEM
All Chemical Disposal, Inc.
Contractor's License #599864
941 Bernessa Road, Suite D • San Jose, CA 95133
Tel: 408-453-1660 • FAX: 408-453-3087

SEP 1994
RECEIVED
CENTRAL FIRE
DISTRICT

WRITTEN REPORT
CONVENT OF HOLY NAMES

A) One underground single wall steel storage tank was removed from 200 Prospect Ave. on September 8, 1994.

1) One 2000 gallon steel tank formerly containing unleaded gasoline. The tank is approximately 15 years old.
2) Pipe configuration - see attached site diagram
3) Tank configuration - see attached site diagram
4) Tank was removed and disposed of at Erickson, Inc. (Manifest #93063763)
5) All piping were removed and disposed of at Erickson, Inc.
6) Excavation was backfilled with the original excavated material. Approximately 10 cubic yards of clean import material was brought in to replace the void created by the tank removal. The material was placed in 12 inch lifts and mechanically compacted.
7) Soil samples were collected immediately after the tank was removed in the presence of the local inspector following the Luft Manual Procedures and Guidelines. (Sample results are included).
8) No changes to the original closure plan were necessary.
9) All copies of permits are enclosed.

B) Site Map - See attached
1) Dimension of excavation: 10'L X 9'W X 9'D
2) Location of tank and samples - see attached site diagram. Depth indicated on Chain of Custody.

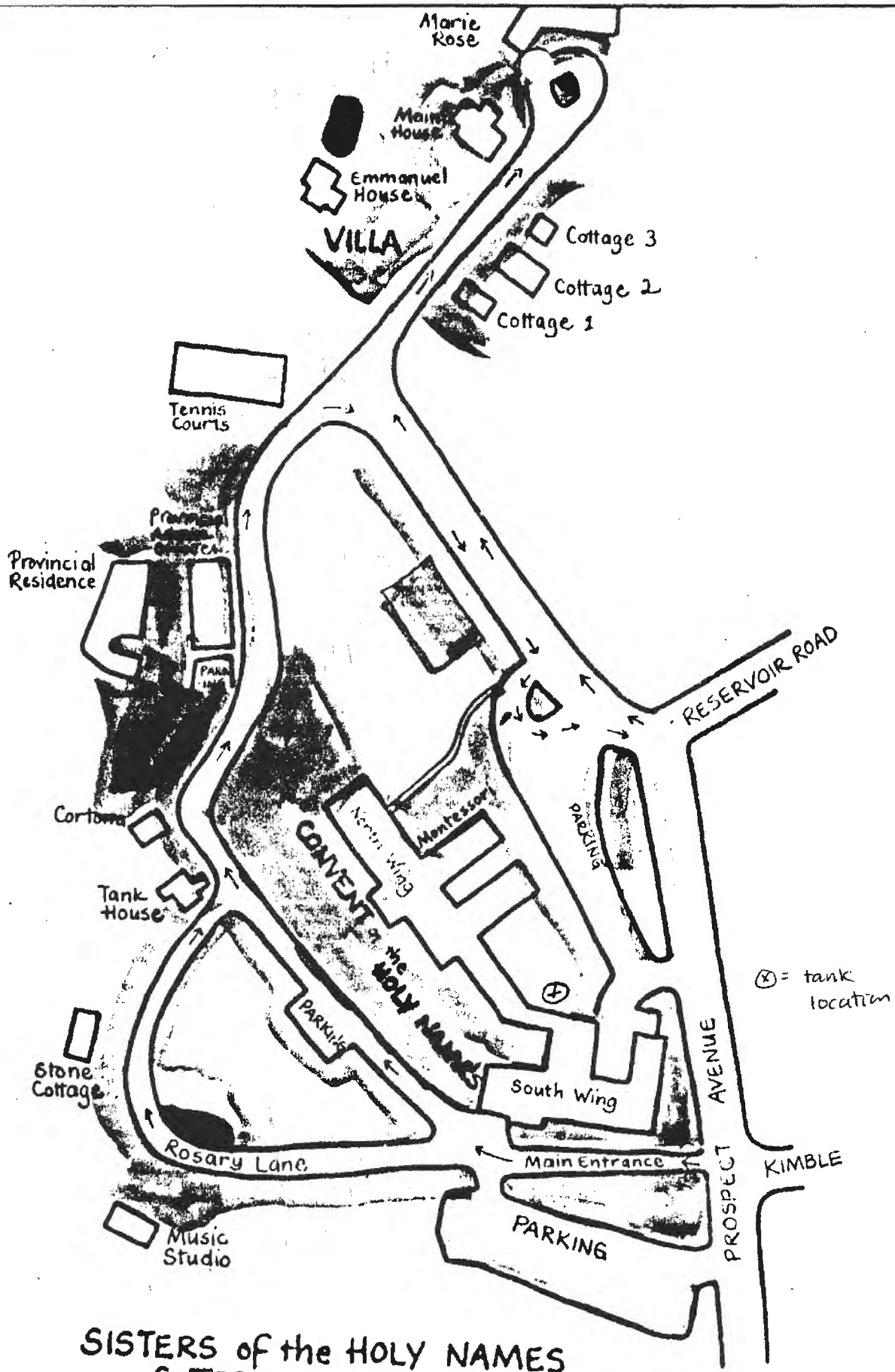
C) Geological Conditions
1) No boring logs were available.
2) Soil excavation was a small amount of clean sand at the base of the tank. The remainder was native soil consisting of sandy clay with sharp rock and fines.
3) No ground water was encountered during the excavation.
4) Limits of the backfill: 10'L X 9'W X 9'D

D) Observation Relating to the Presence of Contaminates
1) Condition of backfill appeared clean.
2) No visible staining of excavated material was obvious.
3) No free product present during excavation.
4) No apparent odors of any excavated soil was obvious.
5) Visual inspection of tank and piping system appeared to be in excellent condition.

E) Soil/Groundwater Sampling
   1) Chain of Custody - see attached
   2) Lab Results - see attached
   3) Collection of samples in the presence of local inspectors following the Luft Manual Guidelines. Samples were collected beneath the tank in native backfill approximately 2 ft. below the tank bottom. All samples were collected in clean brass tubes retrieved from the backhoe following the Luft Manual Guidelines. The samples were documented on a formal chain of custody record and placed on ice until Chromalab arrived and received the samples.

F) No unauthorized release form was necessary at this location.

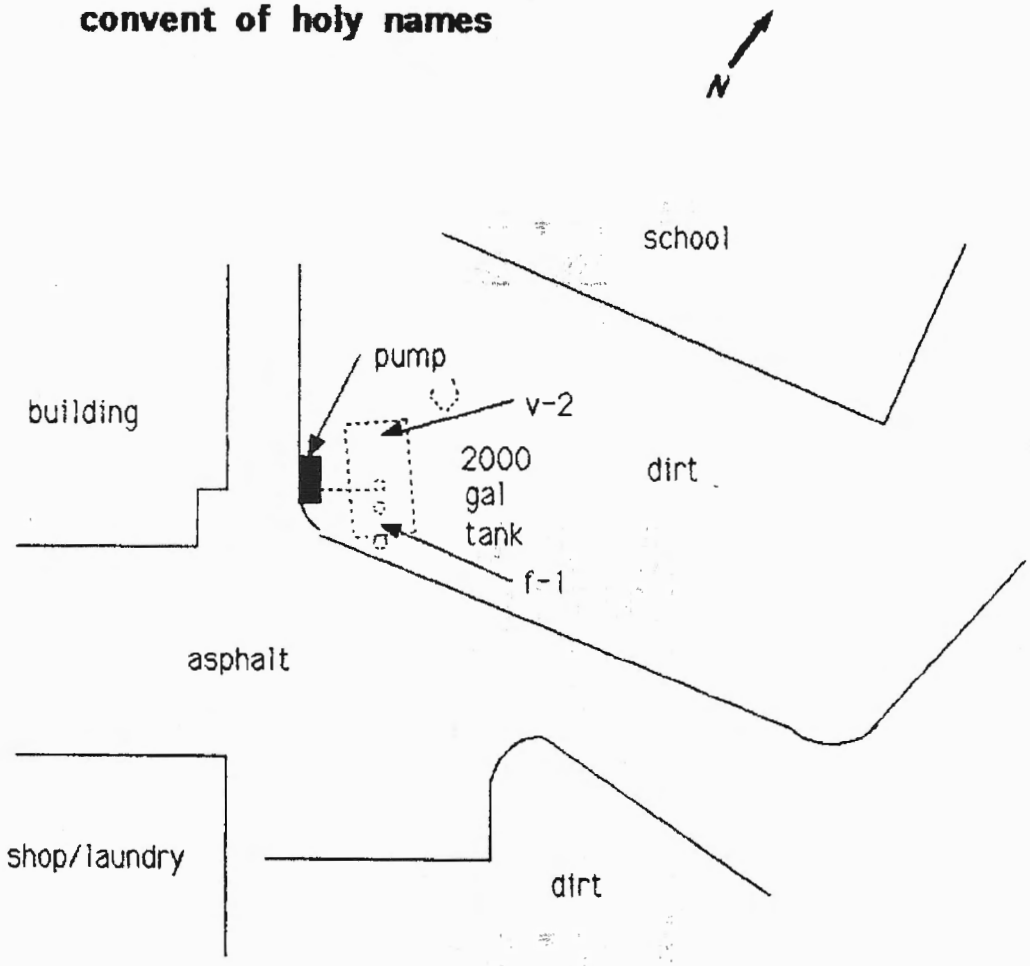
G) TSDF Copies of Tanks - See attached



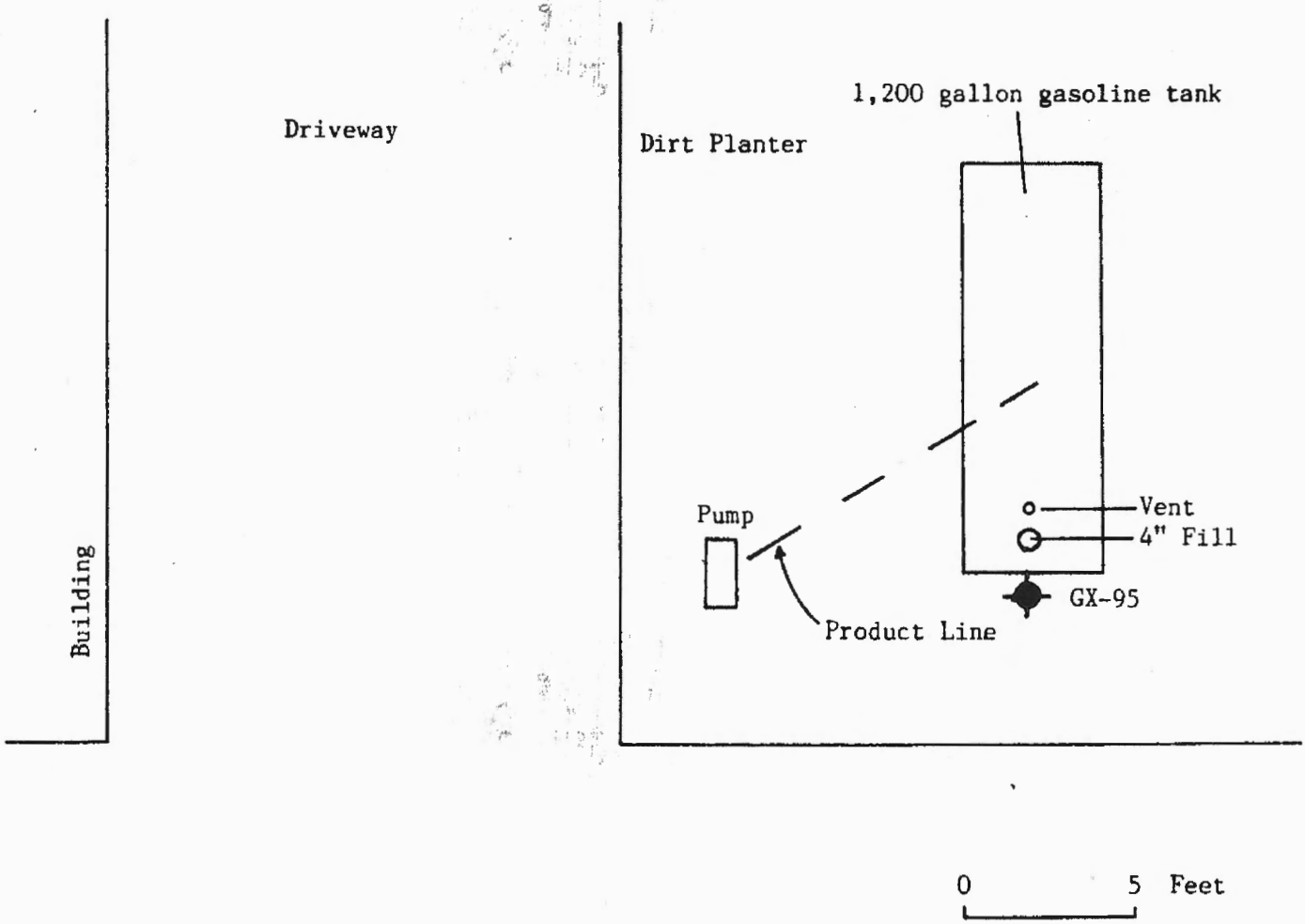
SISTERS of the HOLY NAMES
of JESUS and MARY

LOS GATOS, CALIFORNIA

convent of holy names



prospect ave.



Site Map - Convent of the Holy Names
200 Prospect Avenue
Los Gatos, CA

CHROMALAB, INC.

Environmental Services (SDB)

September 15, 1994 *Submission #:* 9409104

ALL CHEM DISPOSAL, INC.

Attn: Paul Dommert

Project: 36020
Received: September 8, 1994

re: 2 samples for Gasoline and BTEX analysis.

Matrix: SOIL
Sampled: September 8, 1994 *Lab Run#:* 3836 *Analyzed:* September 14, 1994
Method: EPA 5030/8015M/8020

Spl # CLIENT SMPL ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
62139 F-1	N.D.	N.D.	N.D.	N.D.	N.D.
62140 V-1	N.D.	N.D.	N.D.	N.D.	N.D.
Reporting Limits	1.0	5.0	5.0	5.0	5.0
Blank Result	N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)	110	99	97	97	98

ChromaLab, Inc.

Billy Thach
Chemist

Ali Kharrazi
Organic Manager

Santa Clara County
CENTRAL FIRE PROTECTION DISTRICT
14700 Winchester Blvd.
LOS GATOS, CA 95030-1818
SERVICE SINCE 1947 (408) 378-4010 FAX (408) 378-9342

INSPECTION NOTICE

☒ Annual - Cycle 1994
☐ Reinspection
☐ Construction
☐ Final

Address 200 PROSPECT - LGA	Suite	Occ. Class.	Date 9-8-94
Occupancy CONVENT OF HOLY NAMES		Occ. Load:	Phone

Memo To: _____ From: CHRIS VERGASON

ITEM #

#94-0794

(1) REMOVAL OF 2000 GALLON MOTOR FUEL TANK.

(2) TWO SOIL SAMPLES TAKEN ONE FROM EACH END OF THE TANK PIT.

ASAP 7/94

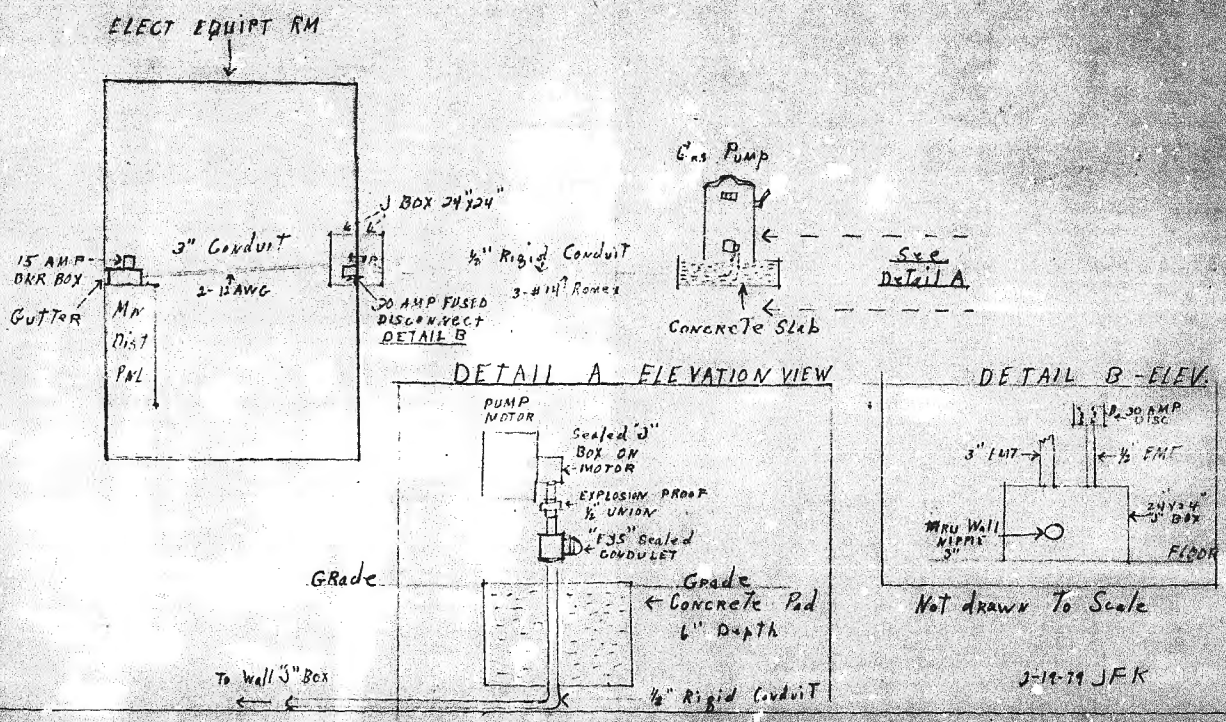
OFFICE COPY

384-1739 Sister Catherine

CONVENT OF HOLY NAMES - GAS PUMP ELECT. HOOK UP

200 Prospect Rd.

File



CORNERSTONE EARTH GROUP

APPENDIX D – HISTORIC AERIAL PHOTOGRAPHS AND TOPOGRAPHIC MAPS

Phase I ESA
200 Prospect Avenue
Los Gatos, CA 95030

Inquiry Number: 2975316.10
January 26, 2011

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

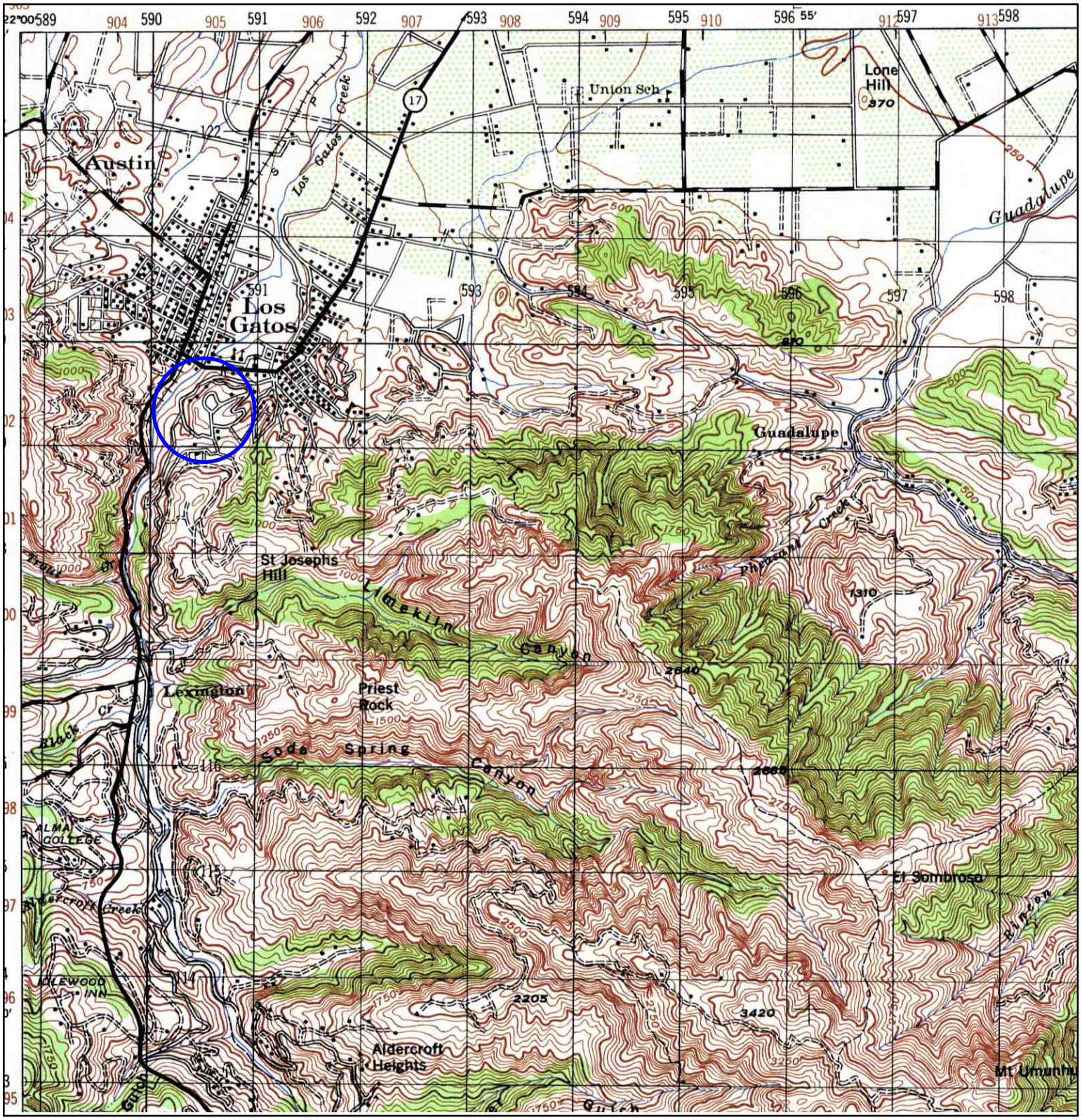
Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Historical Topographic Map

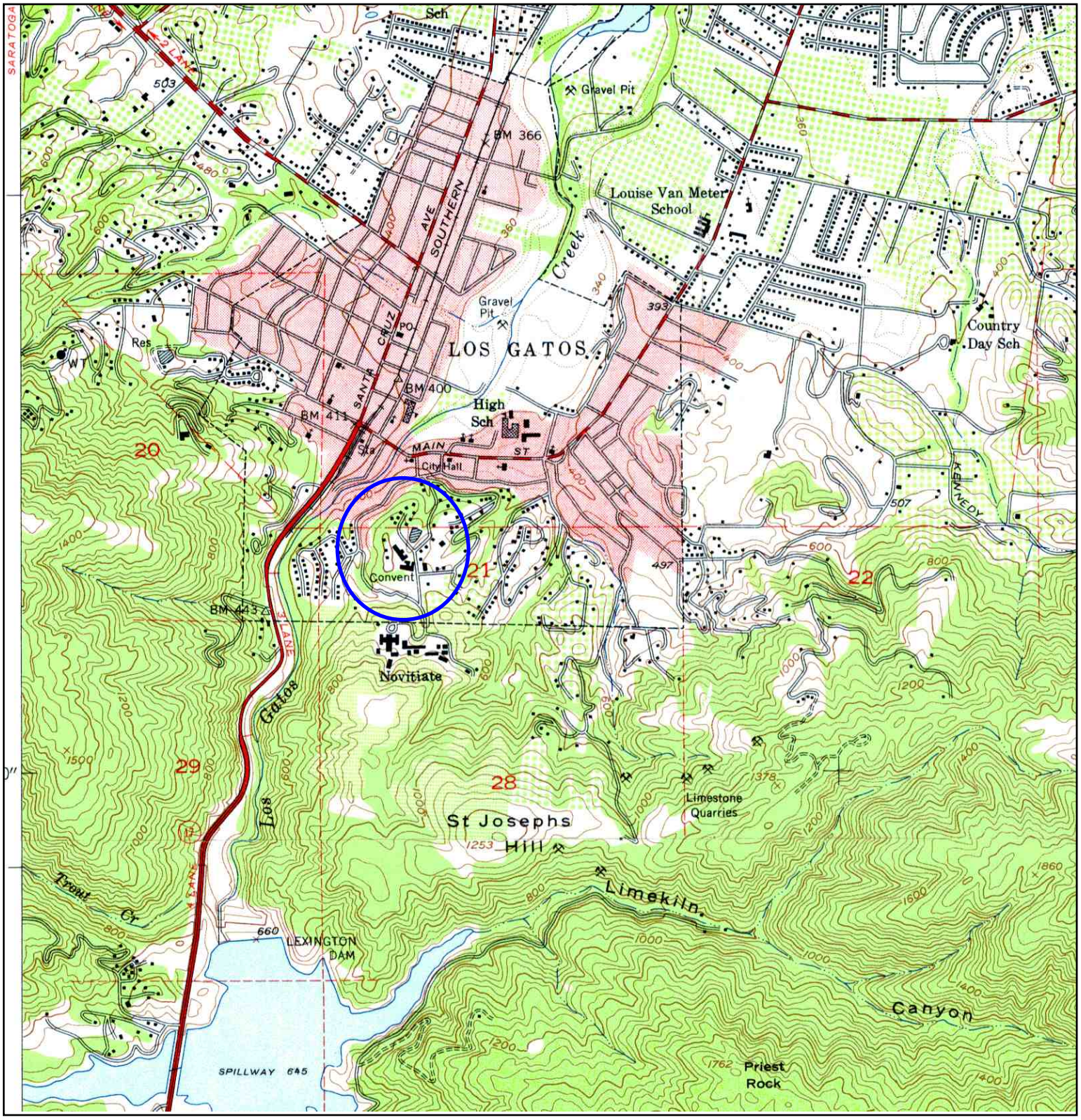
N	TARGET QUAD NAME: NEW ALMADEN MAP YEAR: 1919 SERIES: 15 SCALE: 1:62500	SITE NAME: Phase I ESA ADDRESS: 200 Prospect Avenue Los Gatos, CA 95030 LAT/LONG: 37.2168 / -121.9824	CLIENT: Cornerstone Earth Group CONTACT: Stason Foster INQUIRY#: 2975316.10 RESEARCH DATE: 01/26/2011

Historical Topographic Map



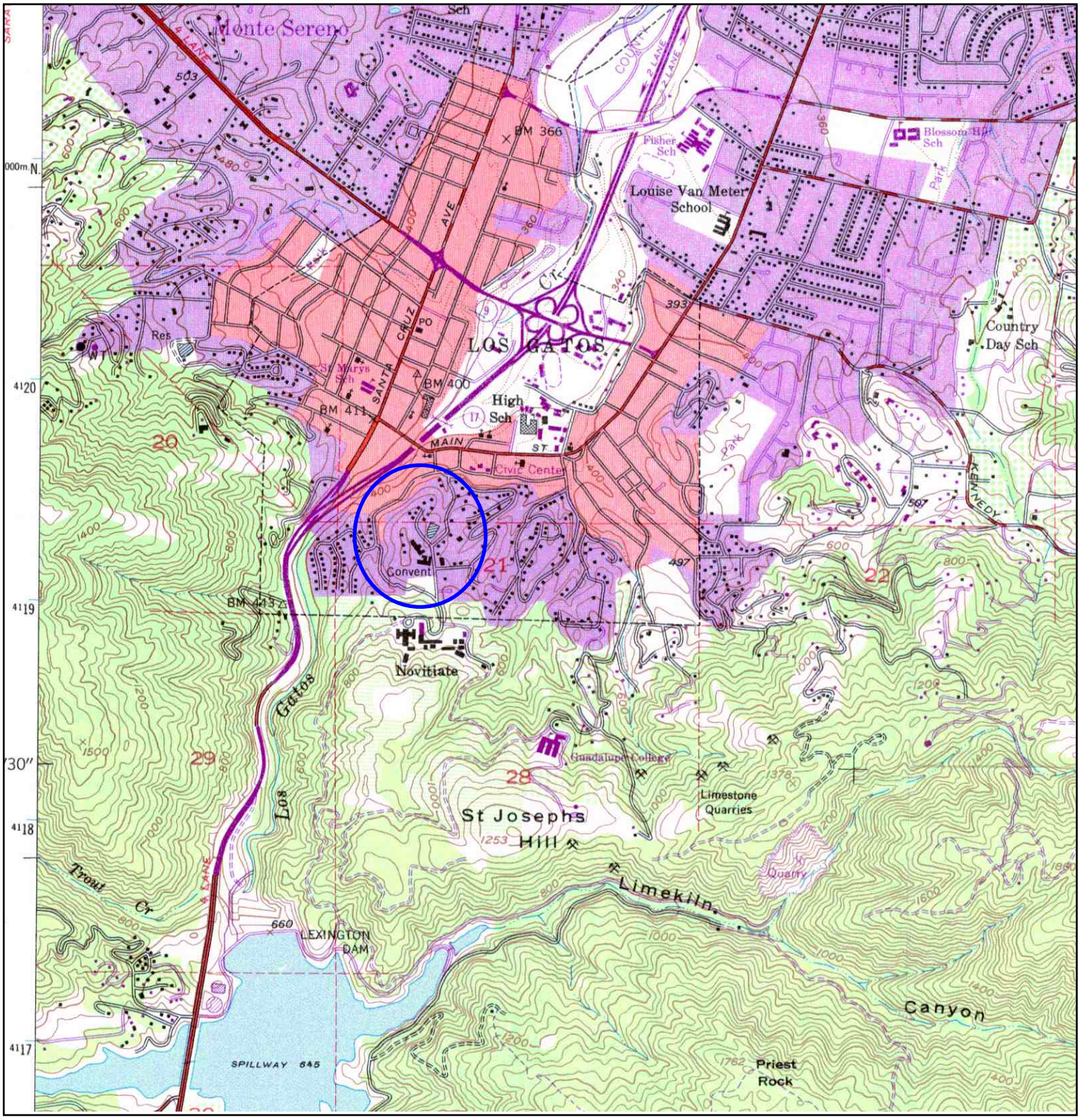
N	TARGET QUAD				
	NAME:	LOS GATOS	SITE NAME:	Phase I ESA	CLIENT: Cornerstone Earth Group
	MAP YEAR:	1947	ADDRESS:	200 Prospect Avenue	CONTACT: Stason Foster
				Los Gatos, CA 95030	INQUIRY#: 2975316.10
	SERIES:	15	LAT/LONG:	37.2168 / -121.9824	RESEARCH DATE: 01/26/2011
	SCALE:	1:50000			

Historical Topographic Map



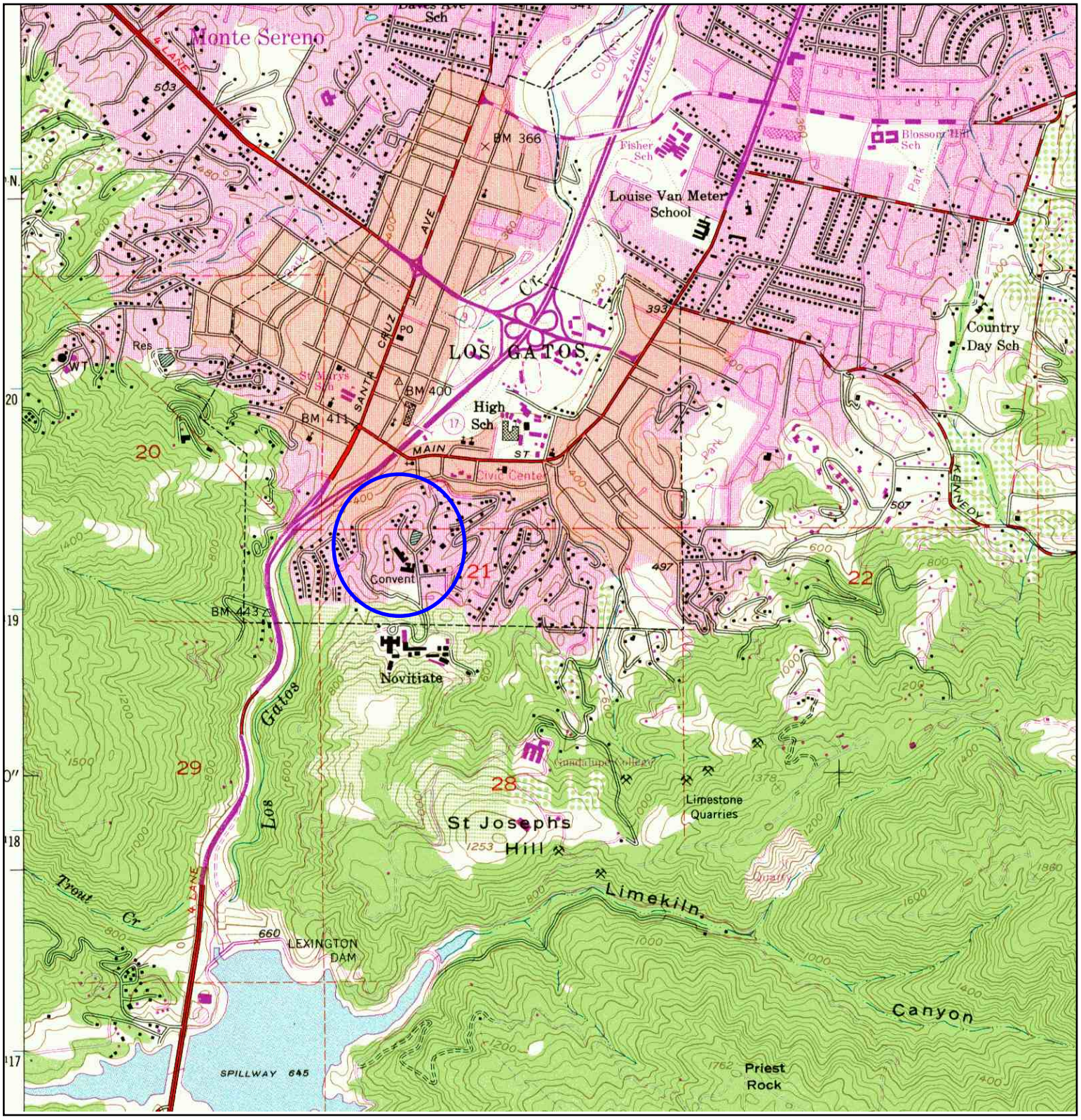
N	TARGET QUAD NAME: LOS GATOS MAP YEAR: 1953 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Phase I ESA ADDRESS: 200 Prospect Avenue Los Gatos, CA 95030 LAT/LONG: 37.2168 / -121.9824	CLIENT: Cornerstone Earth Group CONTACT: Stason Foster INQUIRY#: 2975316.10 RESEARCH DATE: 01/26/2011

Historical Topographic Map



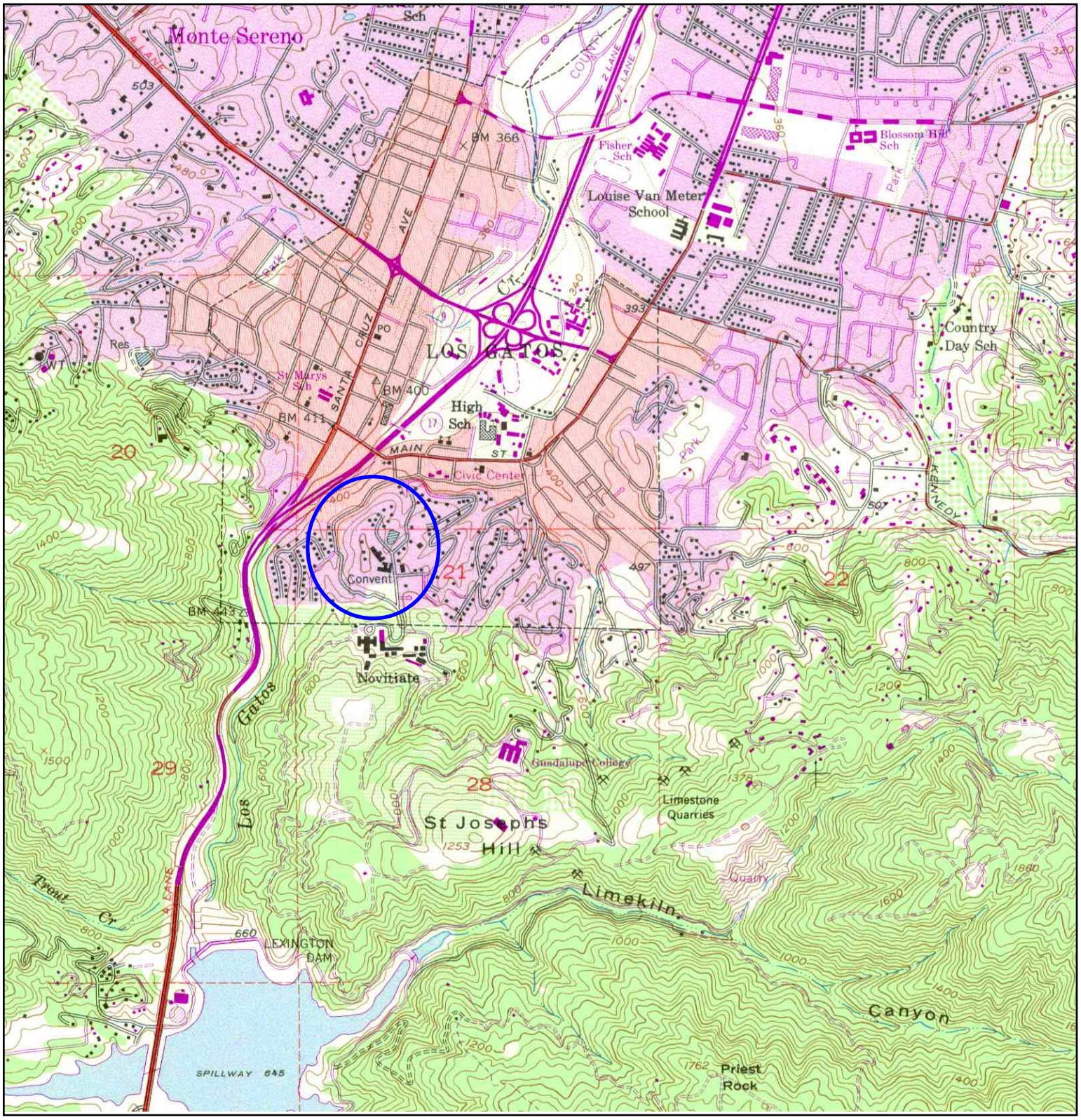
N	TARGET QUAD	SITE NAME: Phase I ESA	CLIENT: Cornerstone Earth Group
	NAME: LOS GATOS	ADDRESS: 200 Prospect Avenue	CONTACT: Stason Foster
	MAP YEAR: 1968	Los Gatos, CA 95030	INQUIRY#: 2975316.10
	PHOTOREVISED:1953	LAT/LONG: 37.2168 / -121.9824	RESEARCH DATE: 01/26/2011
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



N	TARGET QUAD NAME: LOS GATOS MAP YEAR: 1973 PHOTOREVISED:1953 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Phase I ESA ADDRESS: 200 Prospect Avenue Los Gatos, CA 95030 LAT/LONG: 37.2168 / -121.9824	CLIENT: Cornerstone Earth Group CONTACT: Stason Foster INQUIRY#: 2975316.10 RESEARCH DATE: 01/26/2011

Historical Topographic Map



N	TARGET QUAD		SITE NAME:	Phase I ESA	CLIENT:	Cornerstone Earth Group
	NAME:	LOS GATOS	ADDRESS:	200 Prospect Avenue	CONTACT:	Stason Foster
	MAP YEAR:	1980		Los Gatos, CA 95030	INQUIRY#:	2975316.10
	PHOTOREVISED:	1953	LAT/LONG:	37.2168 / -121.9824	RESEARCH DATE:	01/26/2011
	SERIES:	7.5				
	SCALE:	1:24000				

Phase I ESA
200 Prospect Avenue
Los Gatos, CA 95030

Inquiry Number: 2975316.9
January 26, 2011

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/26/11

Site Name:
Phase I ESA
200 Prospect Avenue
Los Gatos, CA 95030

Client Name:
Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, CA 94085

EDR Inquiry # 2975316.9

Contact: Stason Foster

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Cornerstone Earth Group were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Phase I ESA
Address: 200 Prospect Avenue
City, State, Zip: Los Gatos, CA 95030
Cross Street:
P.O. # P2051
Project: Prospect, Los Gatos
Certification # AC74-4E94-BB23

Sanborn® Library search results
Certification # AC74-4E94-BB23

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Cornerstone Earth Group (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Phase I ESA
200 Prospect Avenue
Los Gatos, CA 95030

Inquiry Number: 2975316.11
January 31, 2011

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

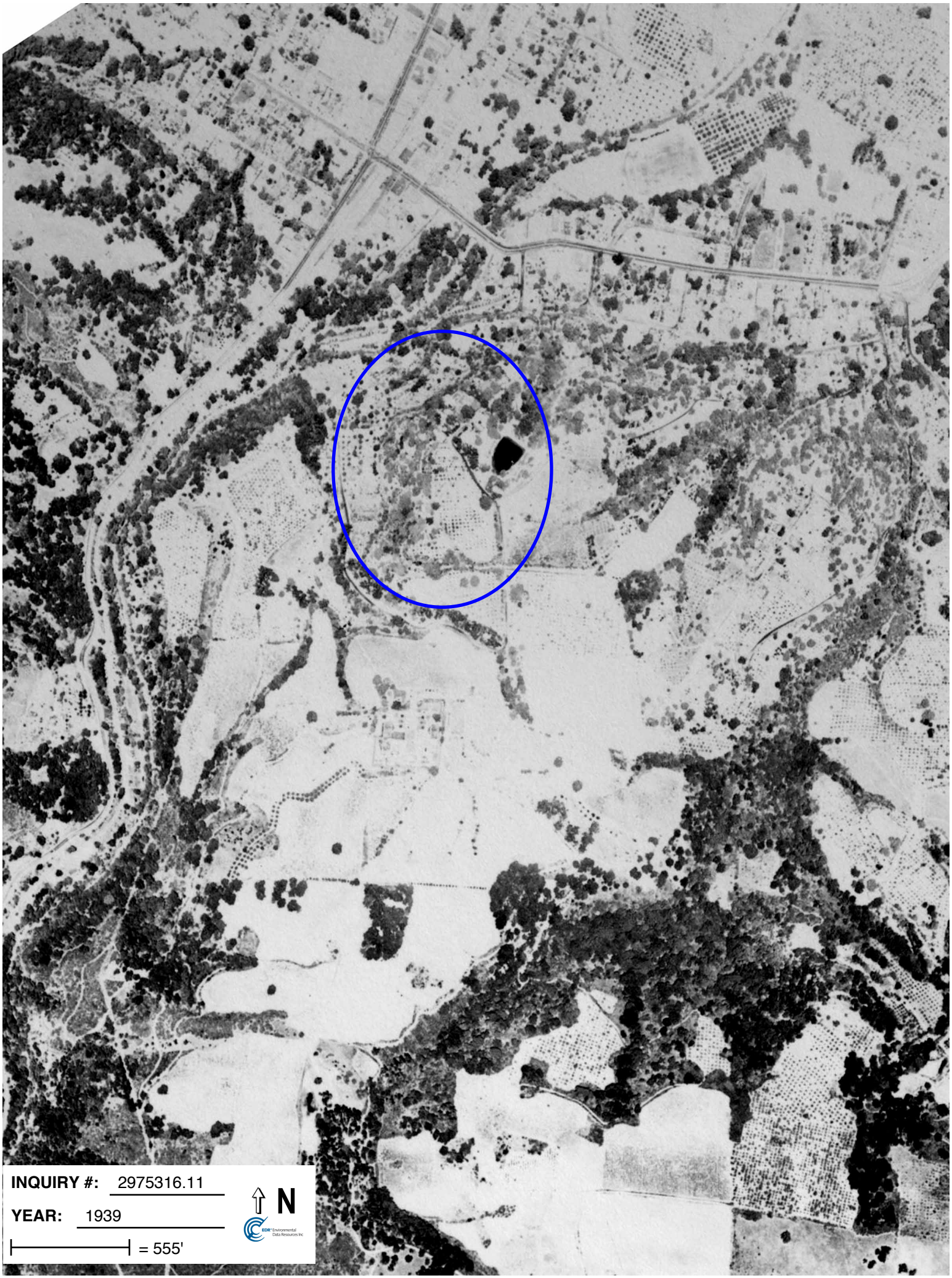
Date EDR Searched Historical Sources:

Aerial Photography January 31, 2011

Target Property:

200 Prospect Avenue
Los Gatos, CA 95030

Year	*Scale*	*Details*	*Source*
1939	Aerial Photograph. Scale: 1"=555'	Flight Year: 1939	Fairchild
1948	Aerial Photograph. Scale: 1"=555'	Flight Year: 1948	Exxon
1956	Aerial Photograph. Scale: 1"=555'	Flight Year: 1956	Aero
1965	Aerial Photograph. Scale: 1"=333'	Flight Year: 1965	Cartwright
1976	Aerial Photograph. Scale: 1"=550'	Flight Year: 1976	NASA
1982	Aerial Photograph. Scale: 1"=690'	Flight Year: 1982	USGS
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS
2005	Aerial Photograph. Scale: 1"=604'	Flight Year: 2005	EDR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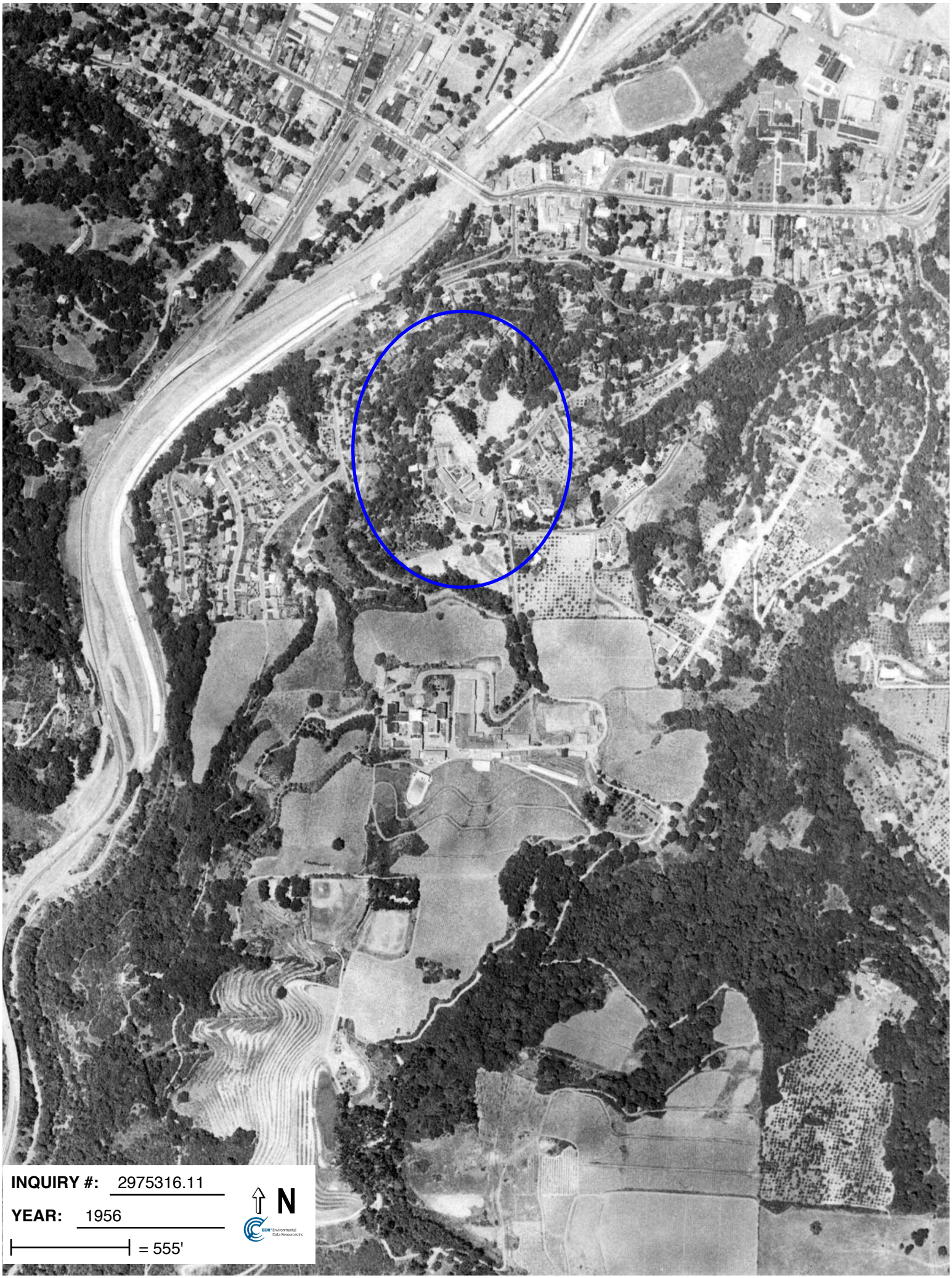
YEAR: 1939
= 555'
N


INQUIRY #: 2975316.11
YEAR: 1948
= 555'
N



INQUIRY #: 2975316.11

YEAR: 1956

= 555'

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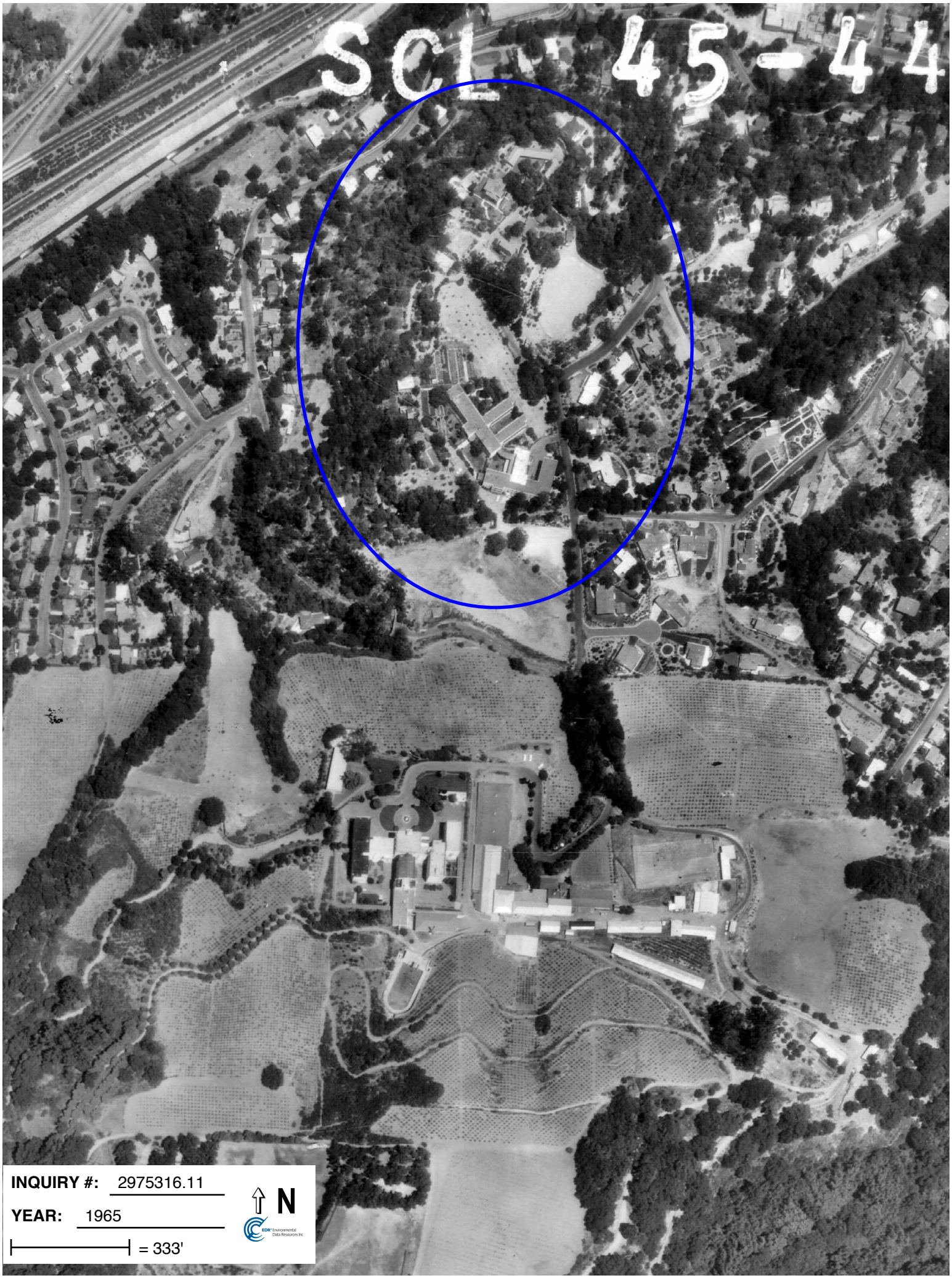
EDR Environmental Data Resources Inc



INQUIRY #: 2975316.11

YEAR: 1965

= 333'

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EDR Environmental Data Resources Inc


INQUIRY #: 2975316.11
YEAR: 1976
= 550'
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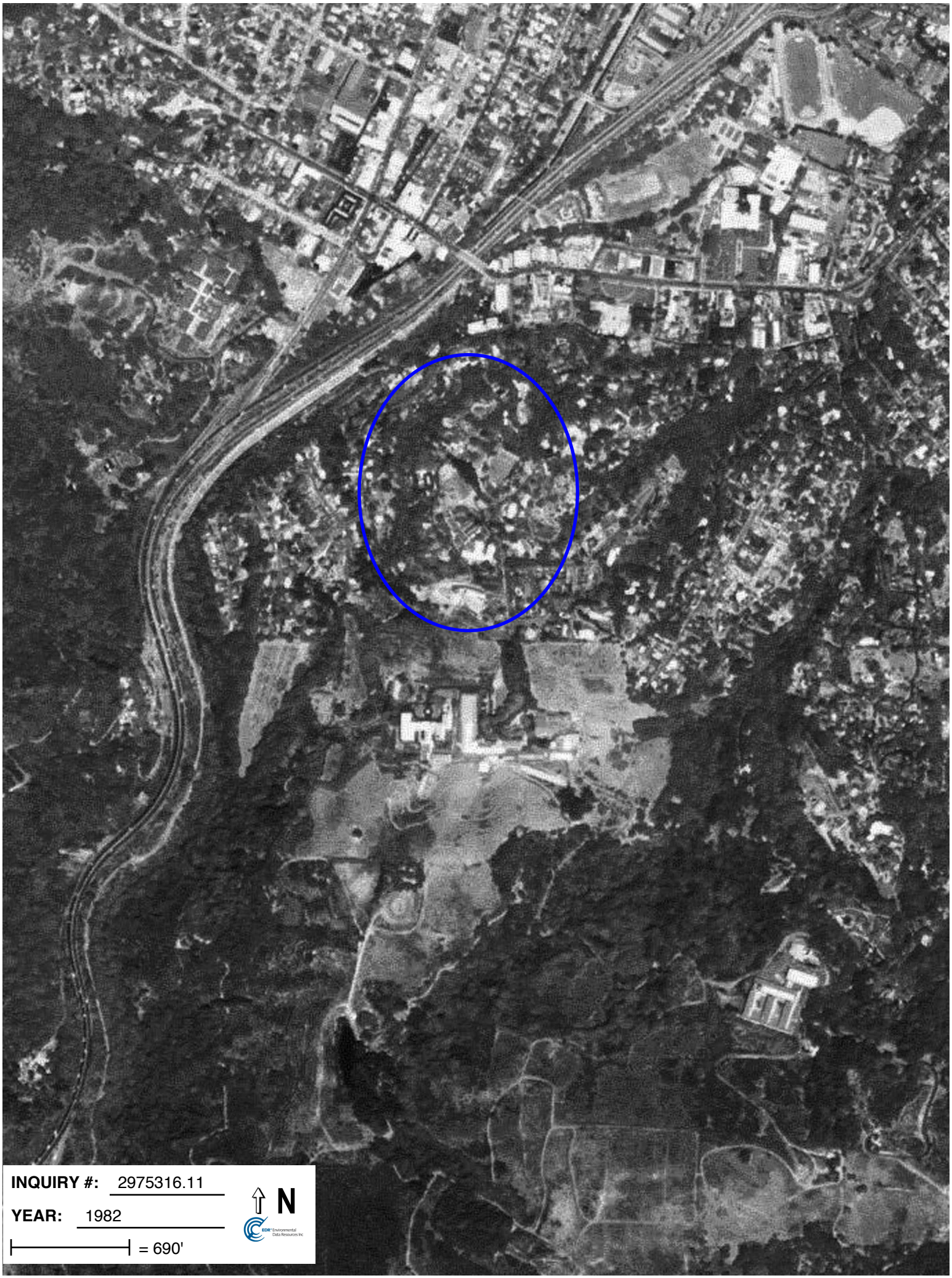
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= 690'
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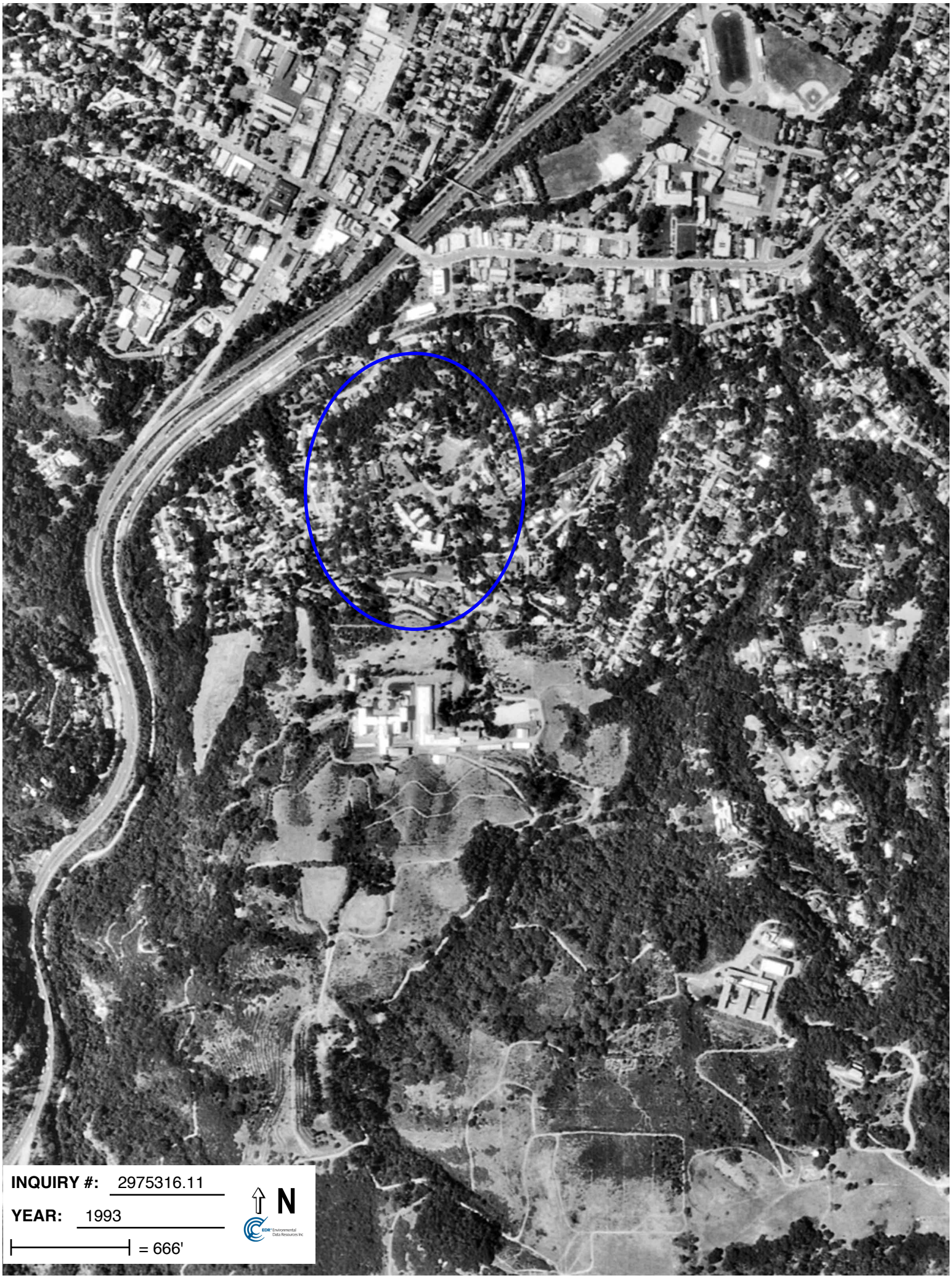
EDR Environmental Data Resources Inc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YEAR: 1993
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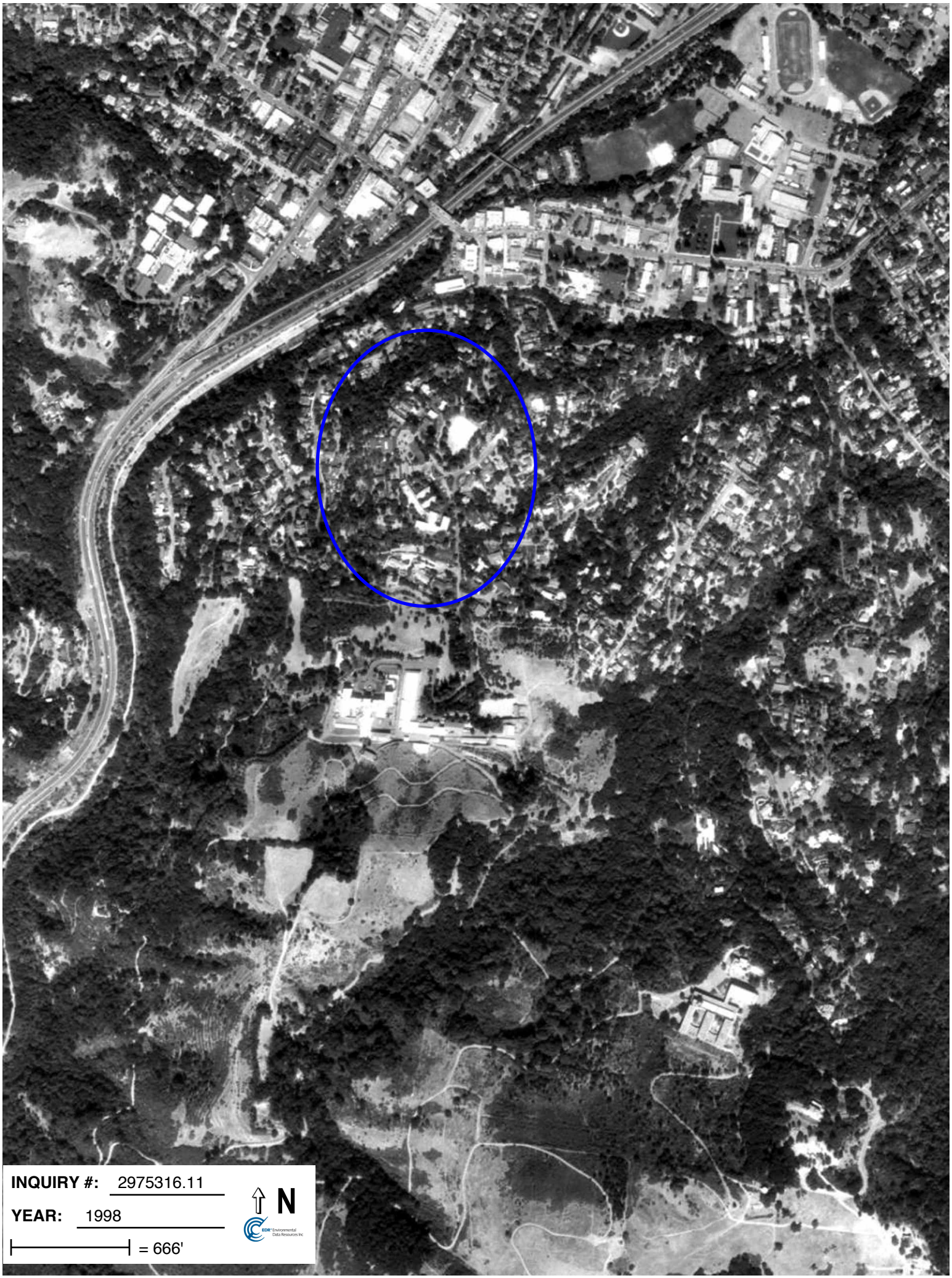

INQUIRY #: 2975316.11
YEAR: 1998
= 666'
N


INQUIRY #: 2975316.11
YEAR: 2005
= 604'
N
EDR Environmental Data Resources Inc

CORNERSTONE EARTH GROUP

APPENDIX E – LOCAL STREET DIRECTORY SEARCH RESULTS

Phase I ESA
200 Prospect Avenue
Los Gatos, CA 95030

Inquiry Number: 2975316.12
January 28, 2011

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2007	Haines Criss-Cross Directory	X	X	X	-
1997	Haines Criss-Cross Directory	X	X	X	-
1991	Haines Criss-Cross Directory	X	X	X	-
1984	Haines Criss-Cross Directory	X	X	X	-
1975	Haines Criss-Cross Directory	X	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
100 Prospect Avenue	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

200 Prospect Avenue
Los Gatos, CA 95030

FINDINGS DETAIL

Target Property research detail.

Year	*Uses*	*Source*
2007	Sisters Of The Holy Nms Cnvnt	Haines Criss-Cross Directory
1997	Casa Maria Montssri	Haines Criss-Cross Directory
	Sisters Of The Holy Nms CnvntPonderosa Rd	Haines Criss-Cross Directory
1991	Casa Maria Montssri	Haines Criss-Cross Directory
	Sisters Of The Holy Nms CnvntPonderosa Rd	Haines Criss-Cross Directory
1984	Casa Maria Montssri	Haines Criss-Cross Directory
	Sisters Of The Holy Nam,es	Haines Criss-Cross Directory
	Villa Community	Haines Criss-Cross Directory
1975	Casa Maria School	Haines Criss-Cross Directory
	Emmanuel House	Haines Criss-Cross Directory
	Sistr Hly Nms Cnvnt	Haines Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Prospect Avenue

Prospect Avenue

Year	Uses	Source
2007	No address listings beyond (211) Prospect Avenue	Haines Criss-Cross Directory
1997	No address listings beyond (211) Prospect Avenue	Haines Criss-Cross Directory
1991	No address listings beyond (211) Prospect Avenue	Haines Criss-Cross Directory
1984	No address listings beyond (211) Prospect Avenue	Haines Criss-Cross Directory
1975	No address listings beyond (211) Prospect Avenue	Haines Criss-Cross Directory

161 Prospect Avenue

Year	Uses	Source
2007	Residential	Haines Criss-Cross Directory
1997	Residential	Haines Criss-Cross Directory
1991	Residential	Haines Criss-Cross Directory
1984	Residential	Haines Criss-Cross Directory
1975	Residential	Haines Criss-Cross Directory

175 Prospect Avenue

Year	Uses	Source
2007	Residential	Haines Criss-Cross Directory
1997	Residential	Haines Criss-Cross Directory
1991	Residential	Haines Criss-Cross Directory
1984	No Return	Haines Criss-Cross Directory
1975	Residential	Haines Criss-Cross Directory

209 Prospect Avenue

Year	Uses	Source
2007	Residential	Haines Criss-Cross Directory
1997	Residential	Haines Criss-Cross Directory
1991	Residential	Haines Criss-Cross Directory
1984	Residential	Haines Criss-Cross Directory
1975	Residential	Haines Criss-Cross Directory

FINDINGS

211 Prospect Avenue

Year	***Uses***	***Source***
2007	Hopner Emil Dr	Haines Criss-Cross Directory
1997	Residential	Haines Criss-Cross Directory
1991	Residential	Haines Criss-Cross Directory
1984	Residential	Haines Criss-Cross Directory
1975	Residential	Haines Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
Prospect Avenue	No Years Found
100 Prospect Avenue	2007, 1997, 1991, 1984, 1975
161 Prospect Avenue	No Years Found
175 Prospect Avenue	No Years Found
209 Prospect Avenue	No Years Found
211 Prospect Avenue	No Years Found

CORNERSTONE EARTH GROUP

APPENDIX F – QUESTIONNAIRE

Sisters of the Holy Names of Jesus and Mary
Convent of the Holy Names

Fax Transmittal Form

To: Cornerstone

Phone number: 408-245-4600

Fax number: 408-245-4620

From: Dayna Hurst

Phone: 408 395-2702

Fax: 408 395-6447

E-mail: dhurst@snjmuson.org

Number of pages including cover page: 7

Message:
Please see the following six pages. Thank you!

CORNERSTONE EARTH GROUP

General Environmental Questionnaire

Cornerstone Earth Group is performing a Phase I environmental site assessment (ESA). The purpose of the ESA is to evaluate current and historic uses of the property that may have involved the use, generation, or storage of hazardous materials. Please respond to these questions to the best of your knowledge.

Return the completed, signed questionnaire by fax at (408) 245-4620 or by mail to the address below. Alternatively, a scanned copy can be emailed to sfoster@cornerstoneearth.com. The completed questionnaire will be attached to the ESA report. Thank you for your assistance and timely response.

GENERAL PROPERTY INFORMATION

1) **Site Address(es) and Assessor's Parcel Number(s):** Please list all current and former addresses. Some sites have multiple addresses; all are needed, even if they are not in current use.

Address(es)	APN Number(s)
100 Prospect Avenue	529-44-005
200 Prospect Avenue	529-31-037
200 prospect Avenue	529-31-038

2) **Property Size:** +/- 12 (Sq. Ft. or (Acres) [circle one])

3) **Current site owner(s) and purchase date:**

Current Owner Name	Year Purchased
Sisters of the Holy Names of Jesus & Mary	1945-1950

4) **Previous site owner(s) and dates of ownership:**

Prior Owner Name	Year Purchased	Year Sold

CORNERSTONE EARTH GROUP

STRUCTURES AND OCCUPANTS

5) Please describe all on-site buildings:

Building Size (sq. ft)	Building Use	Date of Construction
"See Attached Data Sheet"		

Potable Water Source (*e.g.*, city or other water agency, on-site well, etc): city

Sewage Disposal System (*e.g.*, city sewer, septic tank, etc.): city

Heating/Cooling System and Fuel Source (*e.g.*, electric, natural gas, fuel oil, etc.): natural gas

6) Current site tenant(s), site use, and years of occupancy:

Tenant	Site Use	Years of Occupancy (e.g., From 1995 to 2007)
Sisters of the Holy Names of Jesus & mary	Long Term Care Facility	1945-Current

7) Prior site tenant(s), site use, and years of occupancy:

Tenant	Site Use	Years of Occupancy (e.g., From 1975 to 1983)
ϕ		

CORNERSTONE EARTH GROUP

OTHER SITE FEATURES AND INFORMATION

8) Please indicate if you are aware of any of the following structures, features, or activities <u>currently or formerly</u> at the site.

Structure/Feature	Yes	No	Do Not Know
Aboveground Storage Tanks (ASTs)	✓	✓	
Agricultural fields			✓
Agricultural or drinking water supply wells			✓
Air emission control systems		✓	
Areas where garbage or other wastes have been disposed on-site		✓	
Boilers	✓		
Chemical mixing or processing activities		✓	
Chemical storage areas		✓	
Current or former drainage ditches, ponds, or streams	✓		
Dry cleaning equipment		✓	
Dry wells			✓
Elevators	✓		
Emergency generators	✓		
Equipment maintenance or repair areas	✓		
Fill materials placed on-site (*i.e.*, fill used to build up the site elevation to current level)			✓
Ground water monitoring wells			✓
Ground water or soil remediation systems			✓
Hydraulic lifts	✓		✓
Incinerators		✓	
Manufacturing machinery		✓	
Medical Waste		✓	
Oil or gas wells		✓	
Petroleum pipelines		✓	
Railroad lines		✓	
Septic tanks			✓
Stockpiles of soil or debris		✓	
Storage sheds	✓		
Sumps, clarifiers, oil/water separators, or similar structures			✓
Transformers		✓	
Underground Storage Tanks (USTs)			✓
Vapor or dust control hoods and ducting	✓		
Waste burning areas (i.e. burn pit) or ash disposal area		✓	

If you checked yes to any of the above, please provide additional information here or attach to this questionnaire.

see attached

8) On Site Features

Aboveground storage Tanks – Diesel tank for generator

Boilers – Two elevators one in each building

Ponds- fish pond on site

Elevators – Two elevators one in each building

Emergency generator – generator on site provides power to critical areas such as refrigeration

Equipment maintenance or repair area – workshop in Siena building

Storage shed – several small storage sheds on property

Vapor or dust control hoods and ducting – in kitchen only

9) Hazardous material – Chemical limited primarily to cleaning . MSDS sheets posted on site.

CORNERSTONE EARTH GROUP

9) Please indicate if, to your knowledge, any of the following documents exist:

Document	Yes	No	Do Not Know
Environmental site assessments		✓	
Environmental permits or violation notices		✓	
Underground or above ground storage tank documents/permits		✓	
Geotechnical reports or hydrogeologic studies		✓	
Risk assessments		✓	
Hazardous materials management plans or chemical inventories	✓		
Safety/emergency response plans or spill prevention plans		✓	
Compliance audits or community right-to-know plans		✓	
Asbestos or lead based paint surveys			

If you checked yes to any of the above, please indicate the location of the documents.
Can copies be provided? Yes ✓ No _____

10) Have significant quantities of hazardous materials been used, stored, or generated on-site?
Yes _____ No ✓

If so, please list types and quantities and where these materials are or were located.

11) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, do you know of past uses of the site, specific chemicals that were or are present at the site, have knowledge of spills or other chemical releases at the site, or any environmental cleanups at the site.
Yes _____ No ✓

If so, please briefly describe below, including whether reports documenting the activities are available for review by Cornerstone Earth Group.

12) Are you aware of any environmental cleanup liens against the site that are filed or recorded under federal, tribal, state, or local law?
Yes _____ No ✓

CORNERSTONE EARTH GROUP

13) Are you aware of any activity or use limitations (UALs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

Yes _____ No ✓

If so, please briefly describe below.

_____

_____

14) Are you aware of 1) any pending, threatened or past litigation, or administrative proceedings relevant to hazardous substances or petroleum products at the site, or 2) any notices from any governmental entity regarding possible violations of environmental laws or possible liability related to hazardous substances or petroleum products?

Yes _____ No ✓

If so, please briefly describe below.

_____

_____

15) Completed by:

Dayna Horst	Dayna Horst	Sisters of the Holy Names	2-3-11
Name (print)	Signature	Company	Date

CORNERSTONE EARTH GROUP

General Environmental Questionnaire

Cornerstone Earth Group is performing a Phase I environmental site assessment (ESA). The purpose of the ESA is to evaluate current and historic uses of the property that may have involved the use, generation, or storage of hazardous materials. Please respond to these questions to the best of your knowledge.

Return the completed, signed questionnaire by fax at (408) 245-4620 or by mail to the address below. Alternatively, a scanned copy can be emailed to sfoster@cornerstoneearth.com. The completed questionnaire will be attached to the ESA report. Thank you for your assistance and timely response.

GENERAL PROPERTY INFORMATION

1) **Site Address(es) and Assessor's Parcel Number(s):** Please list all current and former addresses. Some sites have multiple addresses; all are needed, even if they are not in current use.

Address(es)	APN Number(s)
100 Prospect Avenue	529-44-005

2) **Property Size:** +/- 10.3 (Sq. Ft. or (Acres) [circle one])

3) **Current site owner(s) and purchase date:**

Current Owner Name	Year Purchased
Sisters of the Holy Names of Jesus & Mary	1945-1950

4) **Previous site owner(s) and dates of ownership:**

Prior Owner Name	Year Purchased	Year Sold

STRUCTURES AND OCCUPANTS

5) Please describe all on-site buildings:

Building Size (sq. ft)	Building Use	Date of Construction
"See Attached Data Sheet"		

Potable Water Source (*e.g.*, city or other water agency, on-site well, etc.): City

Sewage Disposal System (*e.g.*, city sewer, septic tank, etc.): City

Heating/Cooling System and Fuel Source (*e.g.*, electric, natural gas, fuel oil, etc.): Natural Gas

6) Current site tenant(s), site use, and years of occupancy:

Tenant	Site Use	Years of Occupancy (e.g., From 1995 to 2007)
Sisters of the Holy Names of Jesus & mary	Long Term Care Facility and Administrative Offices	1945-Current

7) Prior site tenant(s), site use, and years of occupancy:

Tenant	Site Use	Years of Occupancy (e.g., From 1975 to 1983)

OTHER SITE FEATURES AND INFORMATION

8) Please indicate if you are aware of any of the following structures, features, or activities <u>currently or formerly</u> at the site.

Structure/Feature	Yes	No	Do Not Know
Aboveground Storage Tanks (ASTs)	✓		
Agricultural fields			✓
Agricultural or drinking water supply wells			✓
Air emission control systems		✓	
Areas where garbage or other wastes have been disposed on-site		✓	
Boilers	✓		
Chemical mixing or processing activities		✓	
Chemical storage areas		✓	
Current or former drainage ditches, ponds, or streams	✓		
Dry cleaning equipment		✓	
Dry wells			✓
Elevators	✓		
Emergency generators	✓		
Equipment maintenance or repair areas	✓		
Fill materials placed on-site (*i.e.*, fill used to build up the site elevation to current level)			✓
Ground water monitoring wells			✓
Ground water or soil remediation systems			✓
Hydraulic lifts			✓
Incinerators		✓	
Manufacturing machinery		✓	
Medical Waste		✓	
Oil or gas wells		✓	
Petroleum pipelines		✓	
Railroad lines		✓	
Septic tanks			✓
Stockpiles of soil or debris		✓	
Storage sheds	✓		
Sumps, clarifiers, oil/water separators, or similar structures			✓
Transformers		✓	
Underground Storage Tanks (USTs)	✓		
Vapor or dust control hoods and ducting	✓		
Waste burning areas (i.e. burn pit) or ash disposal area		✓	

If you checked yes to any of the above, please provide additional information here or attach to this questionnaire.

See Attached

9) Please indicate if, to your knowledge, any of the following documents exist:

Document	Yes	No	Do Not Know
Environmental site assessments	✓		
Environmental permits or violation notices		✓	
Underground or above ground storage tank documents/permits	✓		
Geotechnical reports or hydrogeologic studies	✓		
Risk assessments		✓	
Hazardous materials management plans or chemical inventories	✓		
Safety/emergency response plans or spill prevention plans		✓	
Compliance audits or community right-to-know plans		✓	
Asbestos or lead based paint surveys	✓		

If you checked yes to any of the above, please indicate the location of the documents.
Can copies be provided? Yes ✓ No _____

10) Have significant quantities of hazardous materials been used, stored, or generated on-site?
Yes _____ No ✓

If so, please list types and quantities and where these materials are or were located.

11) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, do you know of past uses of the site, specific chemicals that were or are present at the site, have knowledge of spills or other chemical releases at the site, or any environmental cleanups at the site.
Yes _____ No ✓

If so, please briefly describe below, including whether reports documenting the activities are available for review by Cornerstone Earth Group.

12) Are you aware of any environmental cleanup liens against the site that are filed or recorded under federal, tribal, state, or local law?
Yes _____ No ✓

13) Are you aware of any activity or use limitations (UALs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?

Yes _____ No ✓

If so, please briefly describe below.

_____

_____

14) Are you aware of 1) any pending, threatened or past litigation, or administrative proceedings relevant to hazardous substances or petroleum products at the site, or 2) any notices from any governmental entity regarding possible violations of environmental laws or possible liability related to hazardous substances or petroleum products?

Yes _____ No ✓

If so, please briefly describe below.

_____

_____

15) Completed by:

Dayna Horst	Dayna Horst	Testing of the Holy Ground	3-20-2013
Name (print)	Signature	Company	Date

CORNERSTONE EARTH GROUP

APPENDIX G – RESUMES

CORNERSTONE EARTH GROUP

Kurt M. Soenen, P.E.
Principal Engineer

Kurt M. Soenen has over 15 years of experience in environmental engineering and consulting services. He has performed environmental investigations for commercial, industrial, public agency and residential developments throughout the San Francisco Bay Area, California and United States. Mr. Soenen has significant experience in managing site assessments; performing soil, soil vapor, ground water, and indoor air quality investigations; evaluating remedial strategies; designing, operating, and maintaining remediation systems; performing environmental compliance evaluations; coordinating with local regulatory agencies; and implementing cost effective cleanup programs.

Mr. Soenen is familiar with federal, state and local environmental regulations. He is experienced at working with staff at the Environmental Protection Agency, California Regional Water Quality Control Board, the Department of Toxic Substances Control and other agencies, such as local water districts and county health departments.

Select Project Experience

Mr. Soenen's representative experience includes the following projects:

Phase I Environmental Site Assessments and Environmental Compliance Evaluations

- Autumn Street Realignment, San Jose
- Camino Tassajara Roadway Rehabilitation, Danville
- North San Pedro Realignment, San Jose
- Spreckles Sanitary Sewer Force Main Supplement and Pump Station, San Jose
- Stonegate Water Supply Project, San Benito County
- Watkins-Johnson Superfund (NPL) Site, Scotts Valley
- Proposed Midtown Ballpark, San Jose
- Cisco Systems Corporate Campus, San Jose
- eBay Corporate Campus, San Jose
- eBay Data Center Facilities, California, Arizona, and Colorado,
- San Jose Jet Center, San Jose

Phase II Soil, Soil Vapor, Ground Water, and Indoor Air Quality Investigations

- Former Dry Cleaner Facility, San Francisco

Education

Bachelor of Science
Environmental Resources Engineering
Humboldt State University
1997

Professional Registrations

Registered Professional Engineer
No. 63615
State of California

Professional Organizations

American Society of Professional Engineers (ASCE)
National Ground Water Association (NGWA)

Association for Environmental Health and Sciences (AEHS) Foundation

Continuing Education

OSHA 1912.120 Refresher, 2011

21st Annual International Conference on Soil, Water, Energy, and Air and Annual AEHS Meeting, March 2011

In-situ Chemical Oxidation and Enhanced Recovery Techniques, December 2011

Environmental Risk Management, 2011

Vapor Barrier Systems Design and Installation, 2008

Princeton Groundwater Pollution and Hydrology Seminar

Storm Water Pollution Prevention (SWPPP)

- National Food Laboratory (NFL), Dublin
- San Pedro Street Housing Project, San Jose
- Former Stephen's Meat Packing Facility, San Jose
- Valley Transportation Authority (VTA) Yard, San Jose
- ACM Aviation Airport Facility, San Jose

Screening Level Vicinity Hazardous Materials Risk Appraisals

- 1275 and 1287 Lawrence Station Road, Sunnyvale
- Former Sony Facility, San Jose
- Bristol Myers Squibb Manufacturing Plant, Dublin, Ireland
- Industrial-to-Residential (ITR) Study Area, Sunnyvale

Human Health Risk Assessments

- Residential Redevelopment of Brownfield Site, East Palo Alto
- 242 Unit Townhome Development, Sunnyvale
- Residential Redevelopment of Former Service Station Site, Menlo Park
- Mixed-Use Development of Former Dry Cleaner, Menlo Park

Remedial Design and Construction Services

- Design, Construction, and Operation & Maintenance of a Sub-Slab Ventilation System and Ozone Sparge/SVE Remediation System, San Francisco
- Ulistac City Park Constructed Wetland Remediation,
- Santa Clara
- 14-acre Duane Avenue Residential Development, Sunnyvale
- Design, Construction, and Operation & Maintenance of Free-Product Recovery and Ground Water Pump and Treatment Systems at the San Jose Jet Center, San Jose
- Design of Vapor Barrier System and Passive Ventilation System at a 10-acre Residential Redevelopment, East Palo Alto
- Organochlorine Pesticide Remediation at the Jefferson Elementary School, San Leandro
- Operation and Maintenance of Ground Water Pump and Treat, Soil Vapor Extraction, and Air Sparge Remediation Systems at a Former Parker Hannifin Manufacturing facility, New Jersey
- Design and Construction of an Ozone Ground Water Injection System at a Former Service Station Facility, New Jersey
- Construction of a Landfill Gas Recovery System at a Closed Landfill, Maryland

CORNERSTONE EARTH GROUP

STASON I. FOSTER, P.E.
Senior Project Engineer

Stason I. Foster, Senior Project Environmental Engineer, has 22 years of experience in Phase I site assessments, soil and ground water quality investigations, remedial investigations/ feasibility (RI/FS) studies, remedial system design and operation, and lead-based paint and asbestos management and monitoring. He is responsible for management and performance of subsurface investigations, laboratory testing programs, engineering analyses, and quality assurance review of reports pertaining to a broad range of environmental engineering projects.

His experience also includes construction management on a variety of site cleanup projects including such tasks as regulatory permitting, work plan development, bid package preparation, and direct construction oversight. He has performed numerous assessments of site hydrogeology, ground water flow, and contaminant fate and transport; he is also experienced in the assessment of environmental compliance, hazardous materials/waste management, and litigation support.

Mr. Foster's experience includes field and office investigations at numerous commercial, industrial, and agricultural sites impacted by solvents, petroleum fuels, waste oil, heavy metals, and pesticides. Tasks performed have included monitoring well installation and sampling, performance of soil vapor surveys and vapor extraction/performance studies, and well slug tests to evaluate aquifer characteristics. He is also experienced at interpretation of geophysical survey (magnetometer and ground penetrating radar) data to identify subsurface structures such as tanks or drums.

He is experienced in negotiating with the California Regional Water Quality Control Board, Bay Area Air Quality Management District, the Department of Toxic Substances Control, in addition to local government agencies, and is familiar with current analytical techniques, statistical analysis, regulatory requirements, and environmental law. He has received hazardous waste operations/emergency response training to meet the Occupational Safety and Health Association Standard Code of Federal Regulation 1910.120, and holds a supervisory training certificate

Education
Bachelor of Science, Civil Engineering, 1990, Southern Illinois University

Professional Registrations
Professional Civil Engineer: No. 051495, California

Select Project Experience

Mr. Foster's representative recent experience includes the following projects:

Phase I Environmental Site Assessments

- Sun Microsystems/Oracle Campus, Menlo Park, CA (Future Facebook campus consisting of 60 acres and over 1-million sq. ft. of office space)
- Hewlett-Packard Corporate Headquarters, Page Mill Road, Palo Alto, CA
- Jenny Strand Park, Misson College Substation, and Kenneth Substation sites, City of Santa Clara, CA
- Monta Vista High School property, Cupertino, CA
- Advanced Micro Devices /Spansion Superfund Site, Sunnyvale, CA

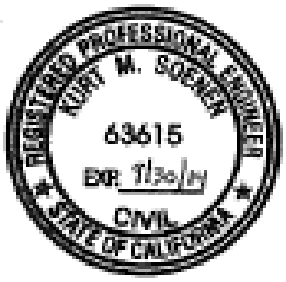
Environmental Reviews for CEQA and NEPA Documents

- El Charro Specific Plan Area - City of Livermore, CA
- Coyote Creek Trail, San Jose, CA
- San Jose 2040 General Plan Update, San Jose, CA
- Future San Jose Ballpark area assessments (Alma and Montgomery Streets), San Jose, CA

CORNERSTONE EARTH GROUP

Type of Services	**Soil Quality Evaluation**
Location	**100 and 200 Prospect Avenue** **Los Gatos, California**
Client **Client Address**	**Sisters of the Holy Names of Jesus and Mary** **U.S.-Ontario Province Administration** **P.O. Box 398** **Marylhurst, Oregon 97039**
Project Number	**440-1-6**
Date	**May 30, 2013**

Randall Bleichner
Staff Geologist



Kurt M. Soenen, P.E.
Principal Engineer

1259 Oakmead Parkway | Sunnyvale, CA 94085
T 408 245 4600 | F 408 245 4620

1270 Springbrook Road, Suite 101 | Walnut Creek, CA 94597
T 925 988 9500 | F 925 988 9501

www.cornerstoneearth.com

Table of Contents

Type of Services	**Soil Quality Evaluation**
Location	**100 and 200 Prospect Avenue** **Los Gatos, California**

SECTION 1: INTRODUCTION

This report presents the results of the Soil Quality Evaluation performed at 100 and 200 Prospect Avenue in Los Gatos, California (Site) as shown on Figures 1 and 2. This work was performed for Sisters of Holy Names Jesus and Mary (SNJM) in accordance with our March 25, 2013 and April 16, 2013 Agreements (Agreement). Cornerstone Earth Group, Inc. (Cornerstone) understands that SNJM is planning to obtain a tentative map for a residential subdivision of 17 single-family lots of about half an acre each. Future development would include demolition of all structures and related driveways and parking lots.

1.1 BACKGROUND

In 2011, Cornerstone prepared a Phase I Environmental Site Assessment (ESA) for the Site (Cornerstone, 2011). The Phase I ESA was updated in Cornerstone's report dated March 27, 2013 (Cornerstone, 2013). Based on the information gathered during these studies, the Site appears to have historically been occupied by orchards with several widely spaced houses. The Site parcel was acquired by SNJM between 1945 and 1950 for use as a convent. The Marian and Siena Buildings (the largest two buildings at the convent) appear to have been constructed in approximately 1950 and have been used for residential/dormitory purposes, as a Montessori school/daycare facility and for office space. The upper two floors of the Marian Building currently are used as a long term care facility for infirmed sisters. The other on-Site buildings are used mainly for storage purposes; offices are present within the Provincial Office Building.

Cornerstone recommended evaluating soil quality since residual concentrations of pesticides could be present in soil at portions of the Site where it appears agricultural activity may have occurred, and near structures if spraying for pest control purposes was previously performed.

1.2 PURPOSE

As part of this assessment, soil samples were collected at the Site and submitted to a state-certified laboratory for analysis. The purpose of this work was to evaluate potential soil quality impacts associated with previous agricultural uses of the Site. Additionally, soil adjacent to structures that are painted with lead-containing paint can become impacted with lead as a result of weathering of painted surfaces. Soil near wood framed structures can also be impacted by pesticides historically used to control termites.

1.3 SCOPE OF WORK

As presented in our Agreement, the scope of work performed for this Soil Quality Evaluation included the following:

- Collection and laboratory analyses of soil samples; and
- Preparation of a written report summarizing our findings and recommendations.

SECTION 2: SOIL QUALITY EVALUATION

Cornerstone's field geologist collected soil samples at the Site on March 26, 2013 and April 19, 2013 using hand sampling equipment. The soil samples for laboratory analyses were collected in clean stainless steel liners that were covered in a Teflon film, fitted with plastic end caps, taped, and labeled with a unique sample identification number. The samples were then placed in an ice-chilled cooler and transported to a state-certified laboratory with chain of custody documentation. All sampling equipment was cleaned in a solution of laboratory grade detergent and rinsed prior to use at each sample point.

The approximate sampling locations are shown on Figures 3 to 8 and are further discussed in Sections 2.2 and 2.3.

2.1 SELECTED ENVIRONMENTAL SCREENING CRITERIA

The analytical results were compared to residential California Human Health Screening Levels (CHHSLs) (CalEPA, 2005; updated September 2010). CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHA) on behalf of the California Environmental Protection Agency (Cal/EPA) and are used to screen sites for potential human health concerns where releases of chemicals to soil have occurred. Under most circumstances, the presence of a chemical in soil below the corresponding CHHSL can be assumed not to pose a significant risk to human health. A chemical exceeding the CHHSL does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation of potential health concerns is warranted.

The results were also compared to Total Threshold Limit Concentration (TTLC) criteria established in Title 22 California Code of Regulations. The TTLC is the level at which a solid waste is considered hazardous, and is pertinent when evaluating waste disposal options. Metal concentrations were also compared to published regional background concentrations (Scott, 1991; LBNL, 1995 and 2009; Bradford, 1996; and Duverge, 2011). Note that natural background concentrations of arsenic are often well above the health-based CHHSL of 0.07 milligram per kilogram (mg/kg, or parts per million [ppm]); however, the California Environmental Protection Agency generally does not require cleanup of metals in soil to below background levels. Bradford et.al. (1996) estimated that background arsenic concentrations in California soil types range from 0.6 mg/kg to 11 mg/kg. Scott (1991) documented background arsenic concentrations ranging up to 20 mg/kg. Duverge (2011) concluded that the mean and upper estimate (the 99th percentile) for background arsenic levels in the San Francisco Bay Region are 4.61 mg/kg and 11 mg/kg, respectively. For this report an assumed background arsenic concentration of 11 mg/kg was used for comparison of the analytical results.

2.2 INITIAL SOIL SAMPLING – MARCH 2013

On March 26, 2013, thirty near surface soil samples (SS-1 through SS-30) were collected from the upper approximate ½ foot of soil using hand sampling equipment. Twenty-one of 30 soil samples (SS-1 through SS-21) were collected near the structures at the Site at accessible locations were exposed soil was present. Six of 30 soil samples (SS-22, SS-23, and SS-27 through SS-30) were collected from open space areas at the Site where historical agricultural activities were performed. Three of 30 soil samples (SS-24, SS-25, and SS-26) were collected from the existing garden areas at the Site.

The soil samples were submitted to a state-certified laboratory and were analyzed for organochlorine pesticides (OCPs) (EPA Test Method 8081) and lead (EPA Test Method 6010). The nine soil samples collected in the former agricultural areas and existing gardens were additionally analyzed for arsenic and mercury (EPA Test Method 6010/7000). The analytical results are presented in Table 1 in the Tables section of this report and on Figures 3 and 4. Analytical data sheets and chain of custody documentation are included in Appendix A. A discussion of the March 2013 results is provided below.

2.2.1 Near Structures

Laboratory analyses of the 21 soil samples collected near structures detected dieldrin in 1 of 21 soil samples above its residential CHHSL of 0.035 mg/kg. Dieldrin was detected in soil sample SS-12 collected near the Stone House building at a concentration of 0.097 mg/kg. No other OCPs were detected in the soil samples above their respective residential screening criteria; however, total DDT (sum of 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT) exceeded its TTLC hazardous waste criteria in 4 of 21 samples with concentrations ranging up to 1.79 mg/kg. The TTLC value for total DDT is 1 mg/kg.

Lead was detected above its residential CHHSL of 80 mg/kg in 3 of 21 soil samples collected near the Seraphine Building (SS-4), greenhouse structure (SS-10), and Stone House (SS-11) at up to 92 mg/kg.

2.2.2 Existing Garden Areas

Laboratory analyses of the three soil samples collected from the existing garden areas (i.e. the terraced garden area and nearby landscaped garden area) did not detect OCPs above their respective environmental screening criteria with exception of chlordane. Chlordane was detected in sample SS-25 at 1.3 mg/kg, which is above its residential CHHSL of 0.43 mg/kg. Sample SS-25 was collected from one of the terraced garden beds.

Arsenic was detected in the soil samples at concentrations of 13 mg/kg, 15 mg/kg, and 18 mg/kg, greater than an assumed background arsenic concentration of 11 mg/kg. Lead was detected in the soil samples at 37 mg/kg, 87 mg/kg, and 88 mg/kg. The residential CHHSL for lead is 80 mg/kg. Lead and arsenic were common components in some pesticides.

The detected mercury concentrations were less than its residential CHHSL and appear typical of natural background.

2.2.3 Open Space Areas

With exception of 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT, no OCPs were detected in the selected soil samples. Total DDT was detected in the soil samples ranging from 0.011 mg/kg to 0.42 mg/kg with an average concentration of 0.15 mg/kg. The detected concentrations of 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT were also below their respective residential CHHSL and TTLC hazardous waste criteria.

The detected arsenic, lead, and mercury concentrations were less than their respective residential CHHSL and/or appear typical of natural background.

2.3 SUPPLEMENTAL SOIL SAMPLING – APRIL 2013

On April 19, 2013 our field geologist returned to the Site to perform additional soil sampling in areas where previous sampling revealed chemical concentrations that exceeded environmental screening criteria. Soil samples were collected from an approximate depth of 1 to 1½ feet and/or from "step-out" locations from the upper approximate ½ foot soil. This work was performed to assist in evaluating the lateral and vertical extent of soil impacts in selected areas.

The analytical results are presented in Table 1 in the Tables section of this report. Analytical data sheets and chain of custody documentation are included in Appendix A. A discussion of the additional sampling and analytical results is provided below.

2.3.1 Stone House and Cortona Building

To assist in evaluating the approximate extent of soil exceeding the screening criteria near the Stone House and Cortona buildings, deeper soil samples were collected from an approximate depth of 1 to 1½ feet at prior locations SS-8, SS-11 and SS-12. A deeper soil sample was also collected near the foundation of the Cortona Building on its north side (SS-8D) where previous sampling was not performed. Additionally, near surface "step-out" soil samples were collected approximately 5 and 10 feet from the building foundation near prior locations SS-8, SS-11 and SS-12. "Step-out" soil samples were also collected near location SS-8D on the north side of the Cortona Building. The additional sampling locations and analytical results are presented on Figure 5.

Laboratory analyses of the furthest "step-out" soil samples (e.g. 5 feet or 10-feet) and subsurface soil samples did not detect OCPs and/or lead above their respective environmental screening criteria except on the north side of the Cortona Building. The 5-foot and 10-foot "step-out" soil samples collected on the north side of the Cortona Building (SS-8E and SS-8F) contained total DDT concentrations at 1.87 mg/kg and 1.79 mg/kg, respectively.

2.3.2 Seraphine Building

During our initial investigation, soil sample SS-4 was collected in an approximate 100 square foot landscape area adjacent to the Seraphine Building. Total DDT and lead were detected in the near surface soil sample above their respective environmental screening criteria.

To evaluate the vertical extent of soil exceeding the screening criteria in the landscape area, our field geologist attempted to collect a subsurface soil sample from the SS-4 location; however, a concrete surface sub-slab was encountered at an approximate depth of 1 foot. The concrete surface appeared present across the entire landscape area. Thus, an additional near surface

soil sample was collected from the landscape area (SS-4B) approximately 5 feet from location SS-4. Laboratory analyses of SS-4B soil sample detected similar elevated concentrations of total DDT and lead. The additional sampling location and analytical results are presented on Figure 6.

2.3.3 Terraced Garden Bed Area

To better evaluate soil quality at/near the terraced garden area, additional soil samples were collected from each garden bed and from selected "step-out" locations approximately 10 feet and 20 feet from the garden bed area. The additional sampling locations and analytical results are presented on Figure 7.

To evaluate the vertical extent of soil exceeding the screening criteria, one soil sample was collected from each garden bed (SS-25A, SS-25E, SS-25F, SS-24A, and SS-24F) from an approximate depth of 1 to 1½ feet. Soil samples SS-24A and SS-25A were collected at previous locations SS-24 and SS-25. Laboratory analyses of the deeper soil samples did not detect OCPs above their respective environmental screening criteria. The detected arsenic and lead concentrations also were less than environmental screening criteria and/or typical natural background.

To assist in evaluating the lateral extent of soil exceeding the screening criteria, "step-out" near surface soil samples SS-25B, SS-24B, and SS-24D were collected approximately 10 feet to the north and east of the terraced garden area; and SS-24C was collected approximately 20 feet from the terraced garden area. Laboratory analyses of these samples did not detect OCPs and arsenic above their respective environmental screening criteria.

The detected lead concentrations in the "step-out" soil samples also were less than its residential CHHSL except at locations SS-24B and SS-24C. Lead was initially reported in samples SS-24B and SS-24C at 940 mg/kg and 95 mg/kg respectively. Since these results appeared inconsistent with other lead results from the terraced garden area, we requested the laboratory homogenize each remaining soil sample and perform another lead analysis. Reanalysis of these samples detected lead at 30 mg/kg and 16 mg/kg, respectively.

One additional near surface soil sample (SS-25D) was collected from the landscape area located north of the terraced garden beds. Laboratory analyses of this sample did not detect OCPs and lead above their respective environmental screening criteria. Arsenic was detected at 18 mg/kg, slightly above an assumed background arsenic concentration of approximately 11 mg/kg.

2.3.4 Other Garden/Landscape Area

Additional soil sampling was also performed in the landscaped area located south of the terraced garden beds and west of the Siena Building. The landscaped area was divided into quadrants each separated by concrete pathways. Three of four soil samples were collected from selected quadrants from an approximate depth of 1 to 1½ feet (SS-26A, SS-26B, and SS-26D). Soil sample SS-26A was collected at prior location SS-26 where elevated lead and arsenic were previously detected in the near surface soil sample. Laboratory analyses of these subsurface soil samples did not detect OCPs, arsenic, and lead above their respective environmental screening criteria.

Two quadrants in the landscape area were selected and near surface soil samples (SS-26E and SS-26C) were collected from randomly selected locations. Laboratory analyses of the soil sample collected from location SS-26E detected total DDT at 1.2 mg/kg and chlordane at 150 mg/kg. The detected chlordane concentration exceeded both its residential CHHSL of 0.43 mg/kg and TTLC criteria of 2.5 mg/kg. The detected arsenic and lead concentrations at SS-26E were less than residential CHHSLs and/or typical natural background.

At location SS-26C, arsenic and lead were detected at 13 mg/kg and 88 mg/kg, respectively. The detected OCP concentrations did not exceed environmental screening criteria.

The additional sampling locations and analytical results are presented on Figure 7.

2.3.5 Pump House

"Step-out" soil sample SS-21B was collected approximately 10 feet from the south side of the pump house structure. Prior sampling near the pump house (SS-21) detected total DDT at 1.03 mg/kg, exceeding its TTLC hazardous waste criteria of 1 mg/kg.

Laboratory analyses of the near surface soil sample collected from location SS-21B detected total DDT at 0.905 mg/kg. The additional sampling location and analytical results are presented on Figure 8.

SECTION 3: CONCLUSIONS (FINDINGS) AND RECOMMENDATIONS

3.1 GENERAL SOIL QUALITY IN FORMER AGRICULTURAL AREAS

During this investigation, soil samples were collected from former orchard/agricultural areas to evaluate potential impacts to soil quality from past agricultural activities. With exception of the existing garden/landscape areas shown on Figure 7, the organochlorine pesticide concentrations detected in the soil samples do not exceed their respective residential CHHSLs and TTLC hazardous waste criteria. Additionally, detected concentrations of pesticide-based metals arsenic, lead, and mercury appear typical of natural background. Based on these results, the Site does not appear to have been significantly impacted by past agricultural activities.

In the terraced garden and landscape areas located north and west of the Siena Building as shown on Figure 7, total DDT (sum of 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT), chlordane, arsenic, and lead were detected in selected near surface soil samples at concentrations that exceed environmental screening criteria. The occurrence of these compounds in the soil samples likely is associated with pest control activities performed in the terraced garden and landscape areas. Based on the available data, the extent of soil impact appears limited to the upper approximate 1 foot of soil within the garden/landscape areas.

3.2 GENERAL SOIL QUALITY NEAR STRUCTURES

Soil adjacent to structures that are painted with lead-containing paint can become impacted with lead as a result of the weathering and/or peeling of painted surfaces. Soil near wood framed structures also can be impacted by pesticides historically used to control termites.

With exception of dieldrin detected in one soil sample collected near the Stone House, laboratory analyses of soil samples collected adjacent to the foundations did not detect

organochlorine pesticide concentrations above their respective CHHSL for residential land use. However, selected soil samples collected near the foundations of the Stone House, Cortona Building, greenhouse, and pump house contained total DDT concentrations that exceed the California hazardous waste criteria of 1 mg/kg. Total DDT greater than 1 mg/kg was also detected in the soil samples collected from the approximate 100 square foot landscape area located adjacent to the foundation of the Seraphine Building. Additionally, lead was detected in selected soil samples (up to 92 mg/kg) collected near these buildings (except the pump house and Cortona Building) slightly above its residential CHHSL of 80 mg/kg. Based on our experience, and the analytical results from the soil sampling, the extent of OCP and lead impacts appear limited to the upper one foot of exposed soil near the perimeter of the structures.

3.3 GENERAL CONCLUSIONS

We recommend that soil impacted with organochlorine pesticides and lead at concentrations exceeding residential CHHSLs and/or TTLC hazardous waste criteria be over-excavated and appropriately disposed at a permitted landfill. Confirmation soil samples should also be collected from the sidewalls and base of the excavations to confirm the remaining in-place soil does not exceed cleanup goals. Based on the data collection, we estimate approximately 500 to 1,000 cubic yards of soil may require off-Site disposal.

We recommend soil removal activities be performed under the oversight of a regulatory agency. Alternatively, agency oversight could be requested following removal activities and request agency review and approval of the completion report.

SECTION 4: LIMITATIONS

Cornerstone performed this investigation to support SNJM in evaluation of soil quality at the Site. SNJM understand that the extent of soil quality data obtained is based on the reasonable limits of time and budgetary constraints. In addition, the chemical information presented in this report can change over time and is only valid at the time of this investigation and for the locations sampled.

Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

SECTION 5: REFERENCES

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CORNERSTONE EARTH GROUP

Table 1. Analytical Results of Selected Soil Samples

(Concentrations in mg/kg)

Sample Location	Building or Area	Sample ID	Depth (ft)	Date	4,4´-DDD	4,4´-DDE	4,4´-DDT	DDT Total	alpha-Chlordane	Chlordane	Dieldrin	gamma-Chlordane	Heptachlor	Heptachlor epoxide	Arsenic	Lead	Mercury
Near Structures	Seraphine Building	SS-1	0-½	3/26/2013	0.025	0.12	0.021	0.166	<0.0098	<0.2	<0.0098	<0.0098	<0.0098	<0.0098	---	12	---
		SS-2	0-½	3/26/2013	0.045	0.32	0.054	0.419	<0.0098	<0.2	<0.0098	<0.0098	<0.0098	<0.0098	---	28	---
		SS-3	0-½	3/26/2013	0.063	0.22	0.066	0.349	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	---	37	---
		SS-4	0-½	3/26/2013	0.19	1.1	0.22	**1.51**	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	---	**92**	---
		SS-4B	0-½	4/19/2013	0.014	0.93	0.38	**1.324**	<0.0098	<0.2	<0.0098	<0.0098	<0.0098	<0.0098	---	**85**	---
	Regional Office	SS-5	0-½	3/26/2013	0.0083	0.03	0.007	0.0453	<0.002	<0.039	<0.002	<0.002	<0.002	<0.002	---	11	---
		SS-6	0-½	3/26/2013	0.014	0.092	0.015	0.121	<0.002	<0.039	<0.002	<0.002	<0.002	<0.002	---	9.1	---
		SS-7	0-½	3/26/2013	0.043	0.16	0.061	0.264	0.026	<0.39	<0.02	<0.02	<0.02	<0.02	---	15	---
	Cortona Building	SS-8	0-½	3/26/2013	0.37	0.67	0.75	**1.79**	<0.02	<0.4	<0.02	<0.02	<0.02	<0.02	---	46	---
		SS-8A	1-1½	4/19/2013	0.035	0.19	0.078	0.303	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	---	46	---
		SS-8B	0-½	4/19/2013	0.25	0.73	0.73	**1.71**	<0.002	<0.4	<0.002	<0.002	<0.02	<0.002	---	---	---
		SS-8C	0-½	4/19/2013	0.25	0.43	0.21	0.89	<0.002	<0.39	<0.002	<0.002	<0.02	<0.002	---	---	---
		SS-8D	1-1½	4/19/2013	0.017	0.042	0.022	0.081	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	---	29	---
		SS-8E	0-½	4/19/2013	0.32	1.3	0.25	**1.87**	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	---	---	---
		SS-8F	0-½	4/19/2013	0.21	1.2	0.18	**1.59**	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	---	---	---
		SS-9	0-½	3/26/2013	<0.0099	0.067	0.018	0.085	0.028	0.25	<0.0099	0.013	<0.0099	<0.0099	---	55	---
	Greenhouse	SS-10	0-½	3/26/2013	0.025	0.21	0.16	0.395	<0.0098	<0.2	<0.0098	<0.0098	<0.0098	<0.0098	---	**88**	---
	Stone House	SS-11	0-½	3/26/2013	0.043	0.36	0.13	0.533	<0.0097	<0.19	<0.0097	<0.0097	<0.0097	<0.0097	---	**92**	---
		SS-11A	1-1½	4/19/2013	---	---	---	---	---	---	---	---	---	---	---	12	---
		SS-11B	0-½	4/19/2013	---	---	---	---	---	---	---	---	---	---	---	**83**	---
		SS-11C	0-½	4/19/2013	---	---	---	---	---	---	---	---	---	---	---	76	---
		SS-12	0-½	3/26/2013	0.053	0.7	0.28	**1.033**	<0.0098	<0.2	**0.097**	<0.0098	<0.0098	<0.0098	---	60	---
		SS-12A	1-1½	4/19/2013	<0.002	0.0049	<0.0020	0.0049	<0.0020	<0.0039	<0.002	<0.002	<0.002	<0.002	---	---	---
		SS-12B	0-½	4/19/2013	0.054	0.61	0.25	0.914	<0.0099	<0.2	0.015	<0.0099	<0.0099	<0.0099	---	---	---
	Siena Building	SS-13	0-½	3/26/2013	<0.002	0.027	0.0099	0.0369	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	---	16	---
		SS-14	0-½	3/26/2013	<0.002	0.0048	<0.002	0.0048	0.0079	0.071	<0.002	0.003	<0.002	0.0074	---	4.5	---
		SS-15	0-½	3/26/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	---	8.3	---
		SS-16	0-½	3/26/2013	<0.0097	<0.0097	<0.0097	<0.0097	0.015	<0.19	<0.0097	<0.0097	<0.0097	<0.0097	---	38	---
	Marian Building	SS-17	0-½	3/26/2013	0.012	0.26	0.21	0.482	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	---	23	---
		SS-18	0-½	3/26/2013	0.028	0.051	0.018	0.097	0.011	<0.2	<0.0099	0.022	<0.0099	0.014	---	26	---
		SS-19	0-½	3/26/2013	<0.0097	0.075	0.076	0.151	<0.0097	<0.19	<0.0097	<0.0097	<0.0097	<0.0097	---	50	---
		SS-20	0-½	3/26/2013	<0.0099	0.059	0.022	0.081	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	---	34	---
	Pump House	SS-21	0-½	3/26/2013	0.12	0.85	0.059	**1.029**	<0.0098	<0.2	<0.0098	<0.0098	<0.0098	<0.0098	---	37	---
		SS-21A	1-1½	4/19/2013	<0.002	0.017	0.0026	0.0196	0.0024	<0.04	<0.002	<0.002	<0.002	<0.002	---	---	---
		SS-21B	0-½	4/19/2013	0.037	0.83	0.038	0.905	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	4.7	22	---

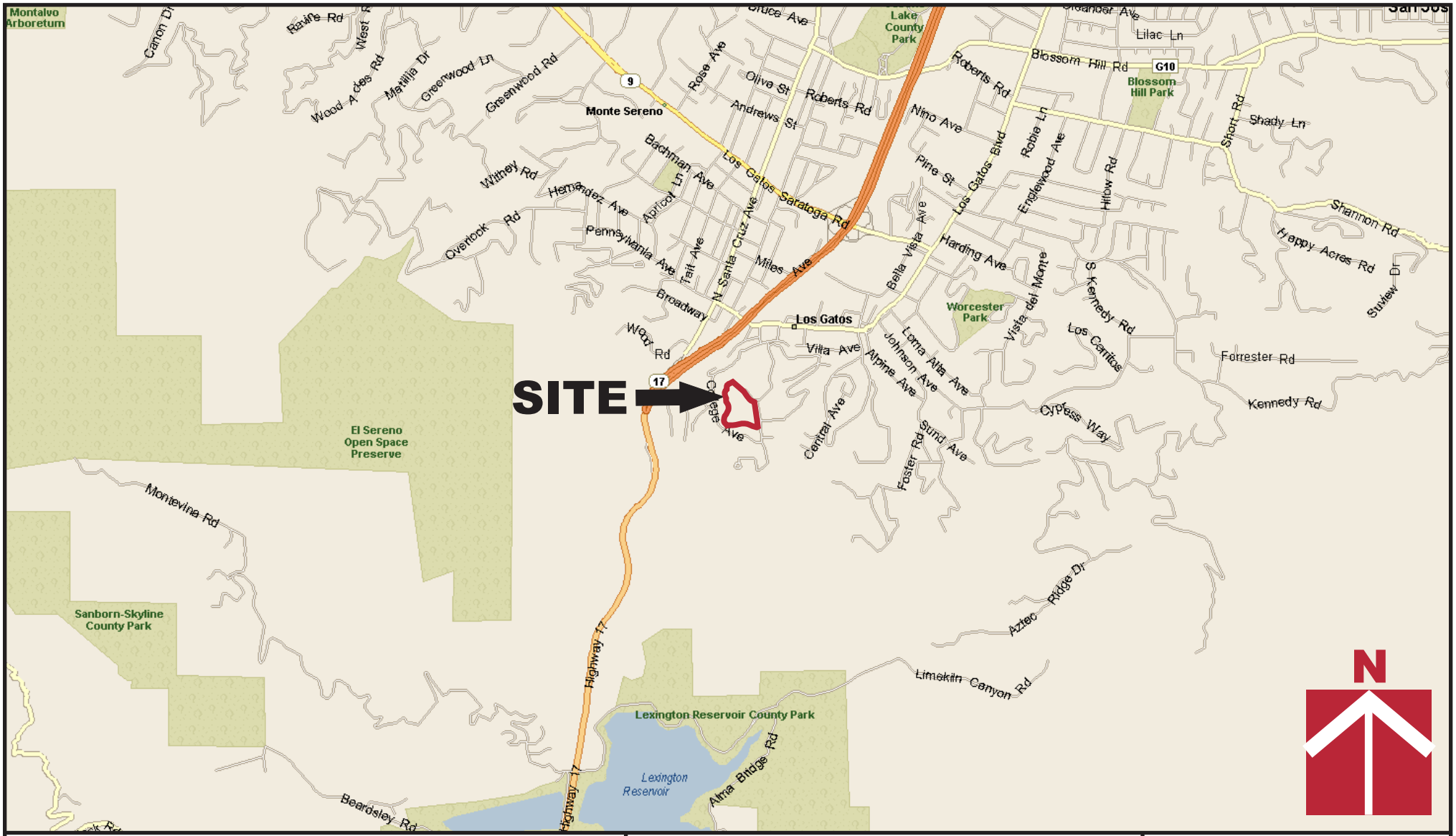
CORNERSTONE EARTH GROUP

Table 1. Analytical Results of Selected Soil Samples

(Concentrations in mg/kg)

Sample Location	Building or Area	Sample ID	Depth (ft)	Date	4,4´-DDD	4,4´-DDE	4,4´-DDT	DDT Total	alpha-Chlordane	Chlordane	Dieldrin	gamma-Chlordane	Heptachlor	Heptachlor epoxide	Arsenic	Lead	Mercury
Former Agricultural Areas	Terraced Garden Area	SS-24	0-½	3/26/2013	0.0078	0.023	0.0043	0.0351	0.045	0.35	<0.002	0.039	<0.002	<0.002	**15**	37	0.55
		SS-24A	1-1½	4/19/2013	---	---	---	---	---	---	---	---	---	---	7	---	---
		SS-24B	0-½	4/19/2013	0.0077	0.052	0.012	0.0717	0.026	0.15	0.0023	0.026	0.003	0.0042	5.9	**(940)*** 30	---
		SS-24C	0-½	4/19/2013	---	---	---	---	---	---	---	---	---	---	---	**(96)*** 16	---
		SS-24D	0-½	4/19/2013	<0.0099	0.055	0.02	0.075	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	4.9	25	---
		SS-24F	1-1½	4/19/2013	<0.002	0.0035	<0.002	0.0035	0.0023	<0.039	<0.002	<0.002	<0.002	<0.002	3.8	5	---
		SS-25	0-½	3/26/2013	0.042	0.09	0.025	0.157	0.42	**1.3**	<0.0099	0.24	<0.0099	<0.0099	**13**	47	0.5
		SS-25A	1-1½	4/19/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	6.2	---	---
		SS-25B	0-½	4/19/2013	0.031	0.2	0.07	0.301	0.046	0.3	<0.0099	0.026	<0.0099	0.011	8.1	52	---
		SS-25D	0-½	4/19/2013	0.028	0.1	0.071	0.199	0.013	0.09	<0.0019	0.0063	<0.0019	0.0045	**18**	42	---
		SS-25E	1-1½	4/19/2013	0.0053	0.012	0.0034	0.0207	0.035	0.18	<0.002	0.032	<0.002	<0.002	7.6	40	---
		SS-25F	1-1½	4/19/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.039	<0.002	<0.002	<0.002	<0.002	5.9	12	---
	Other Garden & Landscape Area	SS-26	0-½	3/26/2013	0.077	0.44	0.11	0.627	<0.0098	<0.2	<0.0098	<0.0098	<0.0098	<0.0098	**13**	**87**	0.53
		SS-26A	1-1½	4/19/2013	0.0038	0.021	0.0064	0.0312	<0.002	<0.04	0.0031	<0.002	<0.002	<0.002	7.4	11	---
		SS-26B	1-1½	4/19/2013	0.0039	0.014	0.0098	0.0277	<0.002	<0.04	0.0033	<0.002	<0.002	<0.002	6.9	8.2	---
		SS-26C	0-½	4/19/2013	0.019	0.11	0.076	0.205	0.051	0.38	<0.0099	0.033	<0.0099	<0.0099	**13**	**88**	---
		SS-26D	1-1½	4/19/2013	<0.0098	<0.0098	<0.0098	<0.0098	0.031	<0.2	<0.0098	0.021	<0.0098	<0.0098	6.3	18	---
		SS-26E	0-½	4/19/2013	<1	1.2	<1	1.2	31	**150**	<1	29	<1	<1	7.6	48	---
	Open Space Areas	SS-22	0-½	3/26/2013	<0.0099	0.067	0.014	0.081	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	5.5	20	0.23
		SS-23	0-½	3/26/2013	<0.0019	0.0026	<0.0019	0.0026	<0.0019	<0.039	<0.0019	<0.0019	<0.0019	<0.0019	5.5	18	0.091
		SS-27	0-½	3/26/2013	<0.002	0.014	0.0031	0.0171	<0.002	<0.039	<0.002	<0.002	<0.002	<0.002	5.2	12	0.12
		SS-28	0-½	3/26/2013	<0.0099	0.32	0.1	0.42	<0.0099	<0.2	<0.0099	<0.0099	<0.0099	<0.0099	7.5	21	0.37
		SS-29	0-½	3/26/2013	0.022	0.31	0.034	0.366	<0.002	<0.04	<0.002	<0.002	<0.002	<0.002	7.2	26	0.15
		SS-30	0-½	3/26/2013	<0.002	0.011	<0.002	0.011	<0.002	<0.039	<0.002	<0.002	<0.002	<0.002	4.2	13	0.068
Residential CHHSL[1]					2.3	1.6	1.6	1.0 [2]	NE	0.43	0.035	NE	0.13	0.053 [3]	11 [4]	80	18

1 California Human Health Screening Level (CHHSL), CalEPA - September 2010
2 Total Threshold Limit Concentration for hazardous waste designation, Title 22 California Code of Regulations
3 No CHHSL established; value is Regional Screening Level - USEPA Region 9, November 2012
4 Toxicity-based goal for arsenic of 0.07 mg/kg was replaced with an assumed regional background concentration of 11 mg/kg (Duvergé, 2011)
< Not detected at or above laboratory reporting limit
NE Not Established
--- Not Analyzed
BOLD Concentration exceeds selected Environmental Screening Criteria
* Sample was reanalyzed, original value show in paranthesis



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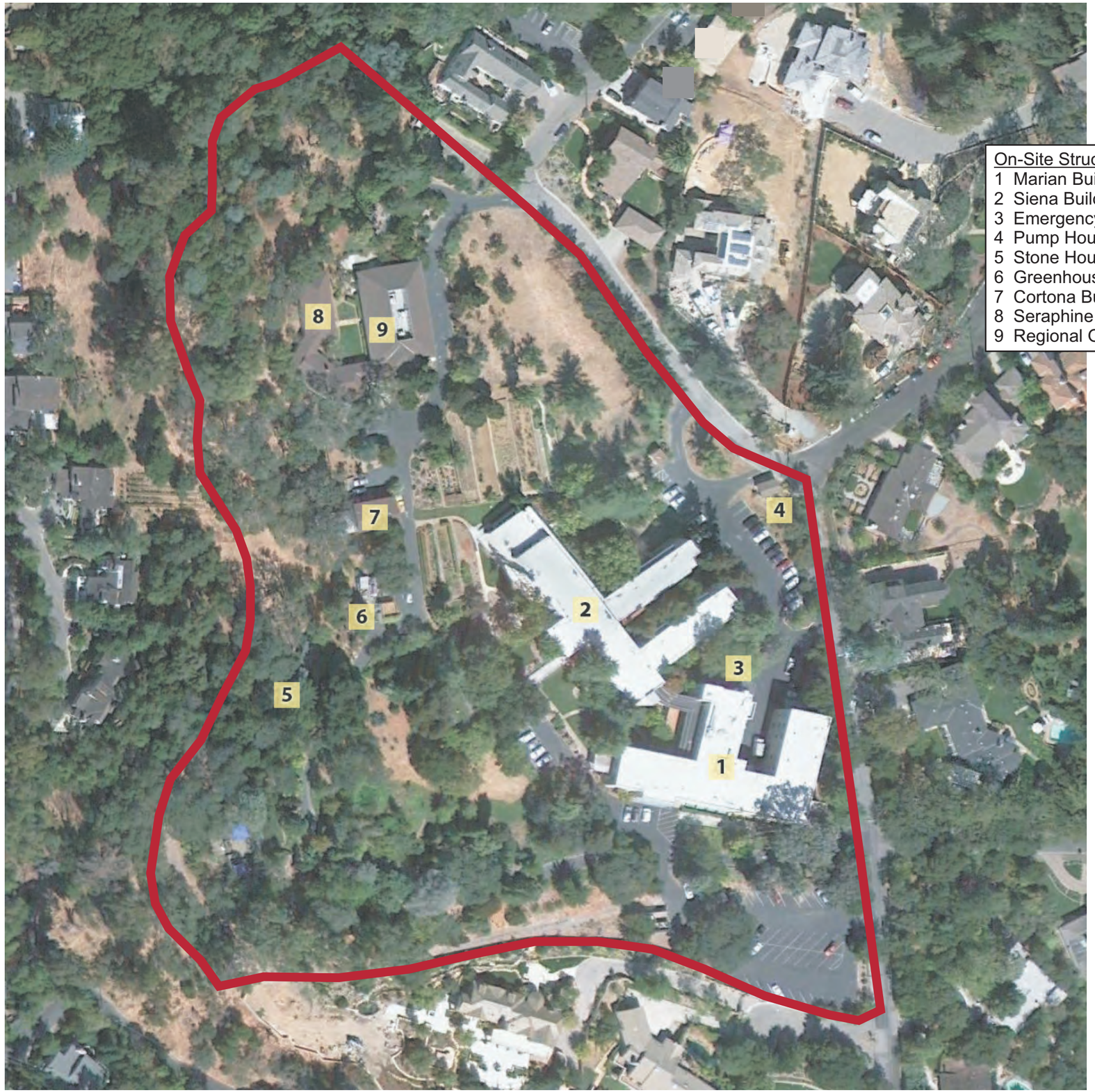
Vicinity Map

Sisters of the Holy Names
of Jesus and Mary
100 Prospect Avenue
Los Gatos, CA

Project Number	440-1-6
Figure Number	Figure 1
Date	May 2013
Drawn By	RRN



On-Site Structures and other Features
1 Marian Building
2 Siena Building
3 Emergency Generator Location (Former UST Location)
4 Pump House
5 Stone House
6 Greenhouse and Water Tank Foundation
7 Cortona Building
8 Seraphine Building
9 Regional Office

Legend

Approximate Site Boundary

N

0 100 200

APPROXIMATE SCALE (FEET)

Project Number 440-1-6

Figure Number Figure 2

Date May 2013

Drawn By MGV, RRN

Site Plan

Sisters of the Holy Names of Jesus and Mary
100 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP

Note: SS-12
Dieldrin = 0.097 ppm
CHHSL is 0.035 ppm

SS-12 3/26/2013	
Total DDT	1.033
Lead	60

SS-11 3/26/2013	
Total DDT	0.533
Lead	**92**

SS-8 3/26/2013	
Total DDT	1.79
Lead	46

SS-9 3/26/2013	
Total DDT	0.085
Lead	55

SS-4 3/26/2013	
Total DDT	1.51
Lead	**92**

SS-2 3/26/2013	
Total DDT	0.419
Lead	28

SS-10 3/26/2013	
Total DDT	0.395
Lead	**88**

SS-1 3/26/2013	
Total DDT	0.166
Lead	12

SS-13 3/26/2013	
Total DDT	0.0369
Lead	16

SS-3 3/26/2013	
Total DDT	0.349
Lead	37

SS-17 3/26/2013	
Total DDT	0.482
Lead	23

SS-6 3/26/2013	
Total DDT	0.121
Lead	9.1

SS-19 3/26/2013	
Total DDT	0.151
Lead	50

SS-5 3/26/2013	
Total DDT	0.0453
Lead	11

SS-7 3/26/2013	
Total DDT	0.264
Lead	15

SS-14 3/26/2013	
Total DDT	0.0048
Lead	4.5

SS-20 3/26/2013	
Total DDT	0.081
Lead	34

SS-18 3/26/2013	
Total DDT	0.097
Lead	26

SS-16 3/26/2013	
Total DDT	<0.0097
Lead	38

SS-21 3/26/2013	
Total DDT	1.029
Lead	37

SS-15 3/26/2013	
Total DDT	<0.002
Lead	8.3

See Figure 5 for details

See Figure 6 for details

See Figure 7 for details

See Figure 8 for details

Residential CHHSL [1]

4,4'-DDD	2.3
4,4'-DDE	1.6
4,4'-DDT	1.6
Total DDT	1.0 [2]
Lead	80

Concentrations in parts per million (ppm)

1 California Human Health Screening Level (CHHSL) CalEPA - September 2010

2 Total Threshold Limit Concentration, used for California regulated hazardous waste designation Title 22 California Code of Regulations

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds residential CHHSL

Concentration exceeds TTLC

On-Site Structures and other Features
1 Marian Building
2 Siena Building
3 Emergency Generator Location (Former UST Location)
4 Pump House
5 Stone House
6 Greenhouse and Water Tank Foundation
7 Cortona Building
8 Seraphine Building
9 Regional Office

Note: Please refer to Figures 5 to 8 for additional analytical results

Legend
- Approximate Site Boundary
- Approximate location of soil samples near structures
- Approximate location of soil sample in former agricultural areas

N

0 150 300
APPROXIMATE SCALE (FEET)

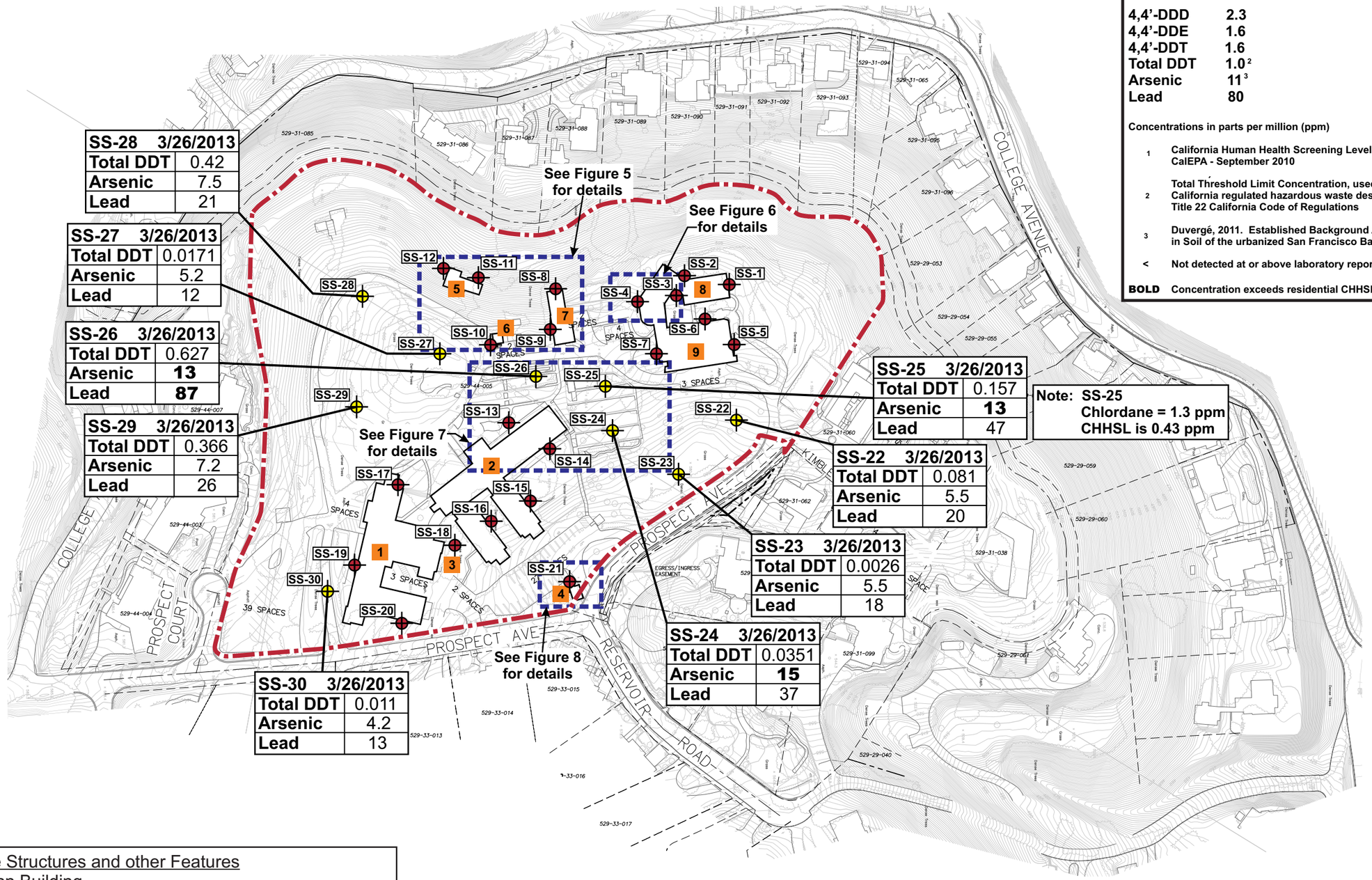
Base by RBF Consulting, "Topographic Exhibit", dated 4/7/2011

Project Number 440-1-6
Figure Number Figure 3
Drawn By RRN
Date May 2013

Pesticide Concentrations in Soil - Near Structures

Sisters of the Holy Name of Jesus and Mary
100 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP



Residential CHHSL [1]

4,4'-DDD	2.3
4,4'-DDE	1.6
4,4'-DDT	1.6
Total DDT	1.0 [2]
Arsenic	11 [3]
Lead	80

Concentrations in parts per million (ppm)

1 California Human Health Screening Level (CHHSL) CalEPA - September 2010

2 Total Threshold Limit Concentration, used for California regulated hazardous waste designation Title 22 California Code of Regulations

3 Duvergé, 2011. Established Background Arsenic in Soil of the urbanized San Francisco Bay Region

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds residential CHHSL

On-Site Structures and other Features
1. Marian Building
2. Siena Building
3. Emergency Generator Location (Former UST Location)
4. Pump House
5. Stone House
6. Greenhouse and Water Tank Foundation
7. Cortona Building
8. Seraphine Building
9. Regional Office

Legend
- Approximate Site Boundary
- Approximate location of soil samples near structures
- Approximate location of soil sample in former agricultural areas

Note: Please refer to Figures 5 to 8 for additional analytical results

N

0 150 300
APPROXIMATE SCALE (FEET)

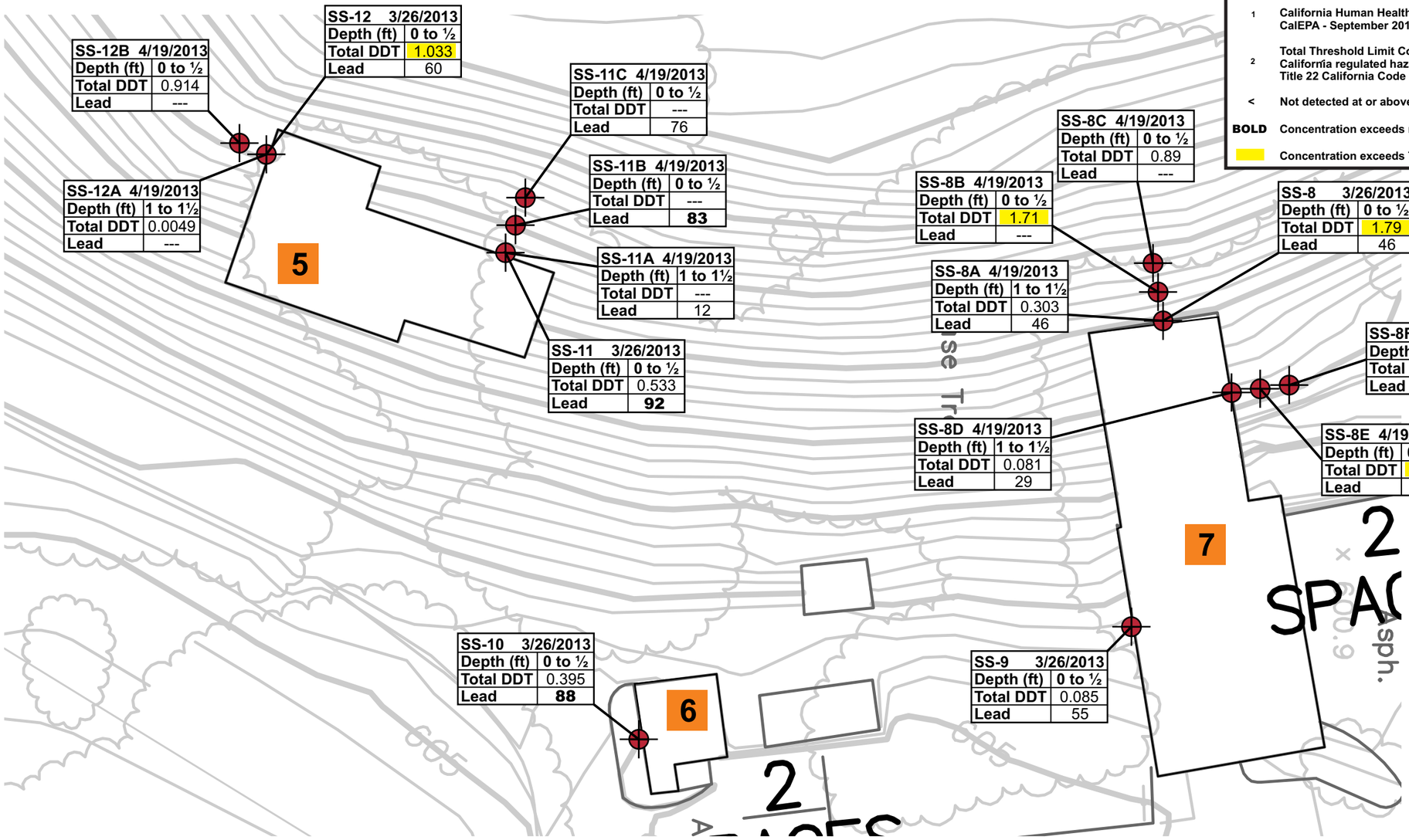
Base by RBF Consulting, "Topographic Exhibit", dated 4/7/2011

Project Number 440-1-6
Figure Number Figure 4
Drawn By RRN
Date May 2013

Pesticide Concentrations in Soil - Former Agricultural Areas

Sisters of the Holy Name of Jesus and Mary
100 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP



Residential CHHSL [1]

4,4'-DDD	2.3
4,4'-DDE	1.6
4,4'-DDT	1.6
Total DDT	1.0 [2]
Lead	80

Concentrations in parts per million (ppm)

1 California Human Health Screening Level (CHHSL) CalEPA - September 2010

2 Total Threshold Limit Concentration, used for California regulated hazardous waste designation Title 22 California Code of Regulations

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds residential CHHSL

Concentration exceeds TTLC

On-Site Structures and other Features
5 Stone House
6 Greenhouse and Water Tank Foundation
7 Cortona Building

Legend

Approximate location of soil samples near structures

N

0 20 40

APPROXIMATE SCALE (FEET)

Base by RBF Consulting, "Topographic Exhibit", dated 4/7/2011

Project Number 440-1-6

Figure Number Figure 5

Drawn By RRN

Date May 2013

Detail of Building 5, 6 and 7

Sisters of the Holy Name of Jesus and Mary
100 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP

Residential CHHSL [1]

4,4'-DDD	2.3
4,4'-DDE	1.6
4,4'-DDT	1.6
Total DDT	1.0 [2]
Lead	80

Concentrations in parts per million (ppm)

1 California Human Health Screening Level (CHHSL) CalEPA - September 2010

2 Total Threshold Limit Concentration, used for California regulated hazardous waste designation Title 22 California Code of Regulations

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds residential CHHSL

Concentration exceeds TTLC

Project Number	440-1-6
Figure Number	Figure 6
Date	May 2013
Drawn By	RRN

595.5

SS-4B 4/19/2013	
Depth (ft)	0 to ½
Total DDT	1.32
Lead	**85**

SS-4 3/26/2013	
Depth (ft)	0 to ½
Total DDT	1.51
Lead	**92**

8

9

On-Site Structures and other Features
8 Seraphine Building
9 Regional Office

Base by RBF Consulting, "Topographic Exhibit", dated 4/7/2011

Legend

Approximate location of soil samples near structures

N

0 10 20

APPROXIMATE SCALE (FEET)

Detail of SS-4 Area near Building 8/9

Sisters of the Holy Name of Jesus and Mary
100 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP

SS-26C 4/19/2013	
Depth (ft)	0 to ½
Total DDT	0.205
Lead	**88**
Arsenic	**13**

SS-26 3/26/2013	
Depth (ft)	0 to ½
Total DDT	0.627
Lead	**87**
Arsenic	**13**

SS-26A 4/19/2013	
Depth (ft)	1 to 1½
Total DDT	0.031
Lead	11
Arsenic	7.4

SS-26B 4/19/2013	
Depth (ft)	1 to 1½
Total DDT	0.028
Lead	8.2
Arsenic	6.9

SS-26D 4/19/2013	
Depth (ft)	1 to 1½
Total DDT	<0.009
Lead	18
Arsenic	6.3

SS-26E 4/19/2013	
Depth (ft)	0 to ½
Total DDT	1.2
Lead	48
Arsenic	7.6

Chlordane detected at 150 mg/kg
Residential CHHSL = 0.43 mg/kg

SS-13 3/26/2013	
Depth (ft)	0 to ½
Total DDT	0.0369
Lead	16

SS-14 3/26/2013	
Depth (ft)	0 to ½
Total DDT	0.0048
Lead	4.5

SS-25D 4/19/2013	
Depth (ft)	0 to ½
Total DDT	0.199
Lead	42
Arsenic	**18**

SS-25 3/26/2013	
Depth (ft)	0 to ½
Total DDT	0.157
Lead	47
Arsenic	**13**

SS-25A 4/19/2013	
Depth (ft)	1 to 1½
Total DDT	<0.002
Lead	---
Arsenic	6.2

SS-25E 4/19/2013	
Depth (ft)	1 to 1½
Total DDT	0.02
Lead	40
Arsenic	7.6

SS-25F 4/19/2013	
Depth (ft)	0 to ½
Total DDT	<0.002
Lead	12
Arsenic	5.9

SS-25B 4/19/2013	
Depth (ft)	0 to ½
Total DDT	0.301
Lead	52
Arsenic	8.1

SS-24A 4/19/2013	
Depth (ft)	1 to 1½
Total DDT	---
Lead	---
Arsenic	7

SS-24 3/26/2013	
Depth (ft)	0 to ½
Total DDT	0.0351
Lead	37
Arsenic	**15**

SS-24B 4/19/2013	
Depth (ft)	0 to ½
Total DDT	0.072
Lead	30
Arsenic	5.9

SS-24C 4/19/2013	
Depth (ft)	0 to ½
Total DDT	---
Lead	16
Arsenic	---

SS-24F 4/19/2013	
Depth (ft)	1 to 1½
Total DDT	0.0035
Lead	5.0
Arsenic	3.8

SS-24D 4/19/2013	
Depth (ft)	0 to ½
Total DDT	0.075
Lead	25
Arsenic	4.9

2

On-Site Structures and other Features
2 Siena Building

Base by RBF Consulting, "Topographic Exhibit", dated 4/7/2011

Residential CHHSL [1]

4,4'-DDD	2.3
4,4'-DDE	1.6
4,4'-DDT	1.6
Total DDT	1.0 [2]
Lead	80
Arsenic	11

Concentrations in parts per million (ppm)

1 California Human Health Screening Level (CHHSL) CalEPA - September 2010

2 Total Threshold Limit Concentration, used for California regulated hazardous waste designation Title 22 California Code of Regulations

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds residential CHHSL

Concentration exceeds TTLC

Legend

Approximate location of garden/landscape area

Approximate location of soil samples near structures

Approximate location of soil sample in former agricultural areas

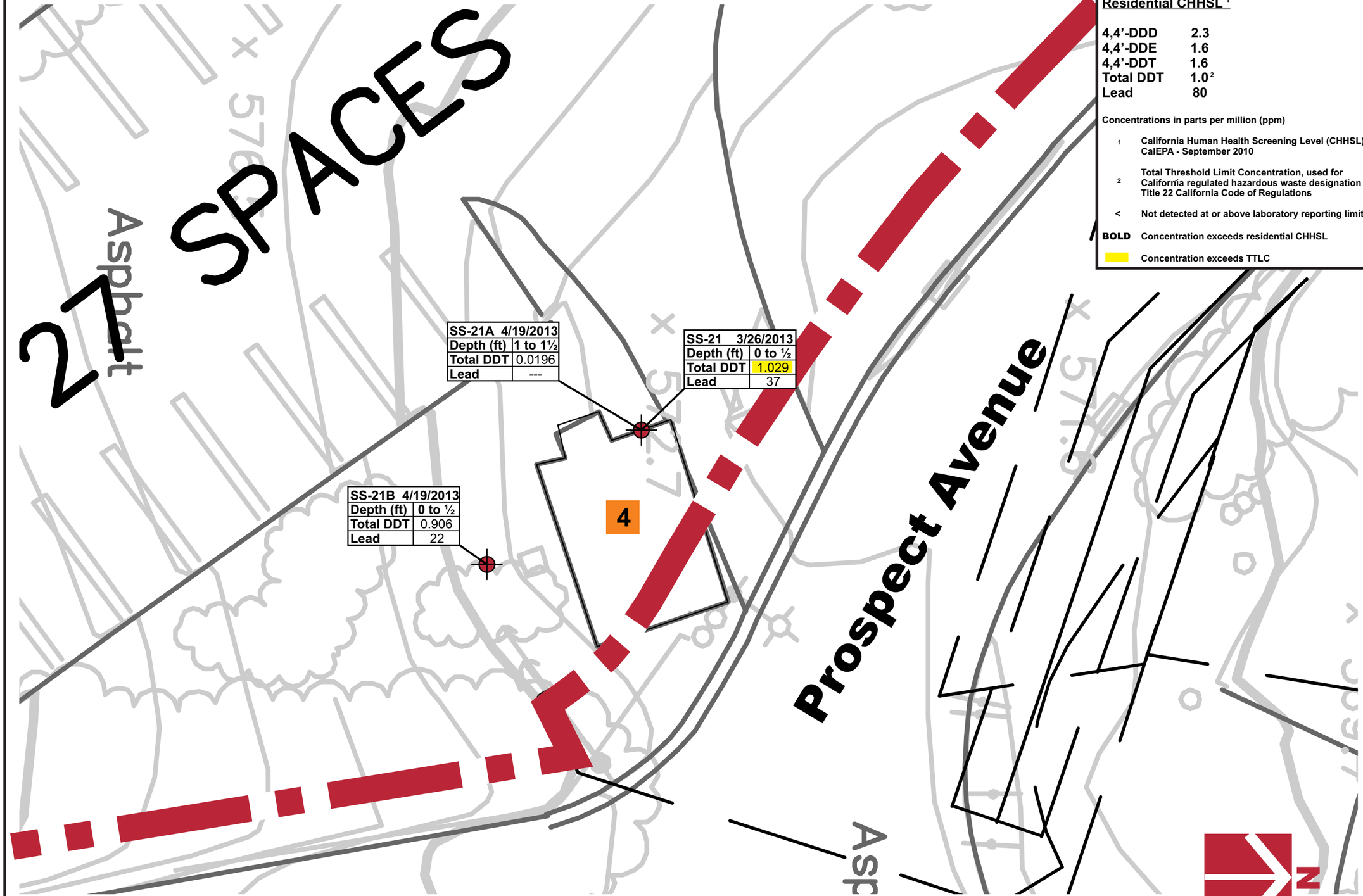
0 20 40
APPROXIMATE SCALE (FEET)

Project Number 440-1-6
Figure Number Figure 7
Drawn By RRN
Date May 2013

Detail of Garden Areas

Sisters of the Holy Name of Jesus and Mary
100 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP



Residential CHHSL [1]

4,4'-DDD	2.3
4,4'-DDE	1.6
4,4'-DDT	1.6
Total DDT	1.0 [2]
Lead	80

Concentrations in parts per million (ppm)

1 California Human Health Screening Level (CHHSL) CalEPA - September 2010

2 Total Threshold Limit Concentration, used for California regulated hazardous waste designation Title 22 California Code of Regulations

< Not detected at or above laboratory reporting limit

BOLD Concentration exceeds residential CHHSL

Concentration exceeds TTLC

On-Site Structures and other Features
4 Pump House

Legend

Approximate Site Boundary

Approximate location of soil samples near structures

Base by RBF Consulting, "Topographic Exhibit", dated 4/7/2011

Project Number 440-1-6

Figure Number Figure 8

Drawn By RRN

Date May 2013

Detail of SS-21 near Building 4

Sisters of the Holy Name of Jesus and Mary
100 Prospect Avenue
Los Gatos, CA

CORNERSTONE EARTH GROUP

CORNERSTONE EARTH GROUP

APPENDIX A – LABORATORY REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-49248-1
Client Project/Site: Prospect Ave /Los Gatos

For:
Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94085

Attn: Kurt Soenen

Authorized for release by:
4/30/2013 11:21:32 AM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-49248-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-49248-1

Comments
No additional comments.

Receipt
The samples were received on 4/19/2013 3:06 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

Except:

Did not receive sample SS-21B (0-0.5). Logged on hold. Received 1 sample not listed on coc SB-26B (0-0.5). Logged on hold.

GC Semi VOA
Method(s) 8081A: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SS-8B (0-0.5) (720-49248-11).

Method(s) 8081A: The % RPD between the primary and confirmation columns is >40%. The lower value has been reported instead of the higher value due to co-elution of a non target peak: (Heptachlor epoxide, a & gama chlordane).

Method(s) 8081A: The % RPD between the primary and confirmation columns is >40%. The lower value has been reported instead of the higher value due to co-elution of a non target peak: (DDE, a & gama-chlordane).

Method(s) 8081A: The % RPD between the primary and confirmation columns is >40%. The lower value has been reported instead of the higher value due to co-elution of a non target peak: (a-chlordane).

Method(s) 8081A: The following sample(s) was diluted due to color,: SS-21B (0-0.5) (720-49248-46), SS-24D (0-0.5) (720-49248-34), SS-26D (1-1.5) (720-49248-41). Elevated reporting limits (RL) are provided.

Method(s) 8081A: The following sample(s) was diluted due to color. SS-26C (0-0.5) (720-49248-40). Elevated reporting limits (RL) are provided.

Method(s) 8081A: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SS-26E (0-0.5) (720-49248-43).

No other analytical or quality issues were noted.

Metals
No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-12A (1-1.5) — Lab Sample ID: 720-49248-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	4.9		2.0		ug/Kg	1		8081A	Total/NA

Client Sample ID: SS-12B (0-0.5) — Lab Sample ID: 720-49248-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	15		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDT	250		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	610		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDD	54		9.9		ug/Kg	5		8081A	Total/NA

Client Sample ID: SS-11A (1-1.5) — Lab Sample ID: 720-49248-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-11B (0-0.5) — Lab Sample ID: 720-49248-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	83		1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-8A (1-1.5) — Lab Sample ID: 720-49248-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	78		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	190		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDD	35		9.9		ug/Kg	5		8081A	Total/NA

Client Sample ID: SS-8B (0-0.5) — Lab Sample ID: 720-49248-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	730		20		ug/Kg	10		8081A	Total/NA
4,4'-DDE	730		20		ug/Kg	10		8081A	Total/NA
4,4'-DDD	250		20		ug/Kg	10		8081A	Total/NA

Client Sample ID: SS-8D (1-1.5) — Lab Sample ID: 720-49248-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	22		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	42		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDD	17		9.9		ug/Kg	5		8081A	Total/NA
Lead	29		2.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-25A (1-1.5) — Lab Sample ID: 720-49248-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		4.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-25B (0-0.5) — Lab Sample ID: 720-49248-21

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-25B (0-0.5) (Continued) — Lab Sample ID: 720-49248-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Heptachlor epoxide	11	p	9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDT	70		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	200		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDD	31		9.9		ug/Kg	5		8081A	Total/NA
Chlordane (technical)	300		200		ug/Kg	5		8081A	Total/NA
alpha-Chlordane	46	p	9.9		ug/Kg	5		8081A	Total/NA
gamma-Chlordane	26	p	9.9		ug/Kg	5		8081A	Total/NA
Lead	52		2.0		mg/Kg	4		6010B	Total/NA
Arsenic	8.1		3.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-25D (0-0.5) — Lab Sample ID: 720-49248-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Heptachlor epoxide	4.5		1.9		ug/Kg	1		8081A	Total/NA
4,4'-DDT	71		1.9		ug/Kg	1		8081A	Total/NA
4,4'-DDE	100	p	1.9		ug/Kg	1		8081A	Total/NA
4,4'-DDD	28		1.9		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	90		39		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	13	p	1.9		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	6.3	p	1.9		ug/Kg	1		8081A	Total/NA
Lead	42		2.0		mg/Kg	4		6010B	Total/NA
Arsenic	18		3.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-25F (1-1.5) — Lab Sample ID: 720-49248-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		2.0		mg/Kg	4		6010B	Total/NA
Arsenic	5.9		3.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-24B (0-0.5) — Lab Sample ID: 720-49248-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	2.3		2.0		ug/Kg	1		8081A	Total/NA
Heptachlor	3.0		2.0		ug/Kg	1		8081A	Total/NA
Heptachlor epoxide	4.2		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	12		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	52		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	7.7		2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	150		39		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	26	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	26		2.0		ug/Kg	1		8081A	Total/NA
Lead	940		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	5.9		3.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-25E (1-1.5) — Lab Sample ID: 720-49248-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	3.4		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	12		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	5.3		2.0		ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-25E (1-1.5) (Continued) — Lab Sample ID: 720-49248-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlordane (technical)	180		39		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	35	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	32		2.0		ug/Kg	1		8081A	Total/NA
Lead	40		1.8		mg/Kg	4		6010B	Total/NA
Arsenic	7.6		3.7		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-24A (1-1.5) — Lab Sample ID: 720-49248-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-24F (1-1.5) — Lab Sample ID: 720-49248-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	3.5		2.0		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	2.3		2.0		ug/Kg	1		8081A	Total/NA
Lead	5.0		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	3.8		3.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-24D (0-0.5) — Lab Sample ID: 720-49248-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	20		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	55		9.9		ug/Kg	5		8081A	Total/NA
Lead	25		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	4.9		3.7		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-26A (1-1.5) — Lab Sample ID: 720-49248-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	3.1		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	6.4		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	21		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	3.8		2.0		ug/Kg	1		8081A	Total/NA
Lead	11		2.0		mg/Kg	4		6010B	Total/NA
Arsenic	7.4		3.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-26B (1-1.5) — Lab Sample ID: 720-49248-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	3.3		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	9.8		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	14		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	3.9		2.0		ug/Kg	1		8081A	Total/NA
Lead	8.2		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	6.9		3.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-26C (0-0.5) — Lab Sample ID: 720-49248-40

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-26C (0-0.5) (Continued) — Lab Sample ID: 720-49248-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	76		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	110		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDD	19		9.9		ug/Kg	5		8081A	Total/NA
Chlordane (technical)	380	p	200		ug/Kg	5		8081A	Total/NA
alpha-Chlordane	51	p	9.9		ug/Kg	5		8081A	Total/NA
gamma-Chlordane	33		9.9		ug/Kg	5		8081A	Total/NA
Lead	88		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	13		3.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-26D (1-1.5) — Lab Sample ID: 720-49248-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-Chlordane	31		9.8		ug/Kg	5		8081A	Total/NA
gamma-Chlordane	21		9.8		ug/Kg	5		8081A	Total/NA
Lead	18		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	6.3		3.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-26E (0-0.5) — Lab Sample ID: 720-49248-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	1200		1000		ug/Kg	500		8081A	Total/NA
Chlordane (technical)	150000		20000		ug/Kg	500		8081A	Total/NA
alpha-Chlordane	31000		1000		ug/Kg	500		8081A	Total/NA
gamma-Chlordane	29000		1000		ug/Kg	500		8081A	Total/NA
Lead	48		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	7.6		3.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-21A (1-1.5) — Lab Sample ID: 720-49248-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	2.6		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	17		2.0		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	2.4		2.0		ug/Kg	1		8081A	Total/NA

Client Sample ID: SS-21B (0-0.5) — Lab Sample ID: 720-49248-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	38		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	830		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDD	37		9.9		ug/Kg	5		8081A	Total/NA
Lead	22		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	4.7		3.8		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-12A (1-1.5)
Date Collected: 04/19/13 09:00
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-1
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Dieldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Endrin aldehyde	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Endrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Endrin ketone	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Heptachlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
4,4'-DDT	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
4,4'-DDE	**4.9**		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
4,4'-DDD	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Endosulfan I	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Endosulfan II	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
alpha-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
beta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
delta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Methoxychlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Toxaphene	ND		39		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
Chlordane (technical)	ND		39		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
alpha-Chlordane	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1
gamma-Chlordane	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*57 - 122*	*04/23/13 12:58*	*04/25/13 06:09*	*1*
DCB Decachlorobiphenyl	*107*		*21 - 136*	*04/23/13 12:58*	*04/25/13 06:09*	*1*

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-12B (0-0.5)
Date Collected: 04/19/13 09:10
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-3
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Dieldrin	**15**		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Endrin aldehyde	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Endrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Endrin ketone	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Heptachlor	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Heptachlor epoxide	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
4,4'-DDT	**250**		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
4,4'-DDE	**610**		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
4,4'-DDD	**54**		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Endosulfan I	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Endosulfan II	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
alpha-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
beta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
delta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Endosulfan sulfate	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Methoxychlor	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Toxaphene	ND		200		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
Chlordane (technical)	ND		200		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
alpha-Chlordane	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5
gamma-Chlordane	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*108*		*57 - 122*	*04/23/13 12:58*	*04/25/13 06:26*	*5*
DCB Decachlorobiphenyl	*105*		*21 - 136*	*04/23/13 12:58*	*04/25/13 06:26*	*5*

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-11A (1-1.5)
Date Collected: 04/19/13 09:18
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-5
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		1.9		mg/Kg		04/24/13 22:19	04/25/13 16:48	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-11B (0-0.5)
Date Collected: 04/19/13 09:25
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-7
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	83		1.9		mg/Kg		04/24/13 22:19	04/25/13 16:53	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-8A (1-1.5)
Date Collected: 04/19/13 09:45
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-9
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Dieldrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Endrin aldehyde	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Endrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Endrin ketone	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Heptachlor	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Heptachlor epoxide	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
4,4'-DDT	**78**		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
4,4'-DDE	**190**		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
4,4'-DDD	**35**		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Endosulfan I	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Endosulfan II	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
alpha-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
beta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
delta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Endosulfan sulfate	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Methoxychlor	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Toxaphene	ND		200		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
Chlordane (technical)	ND		200		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
alpha-Chlordane	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5
gamma-Chlordane	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 06:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*57 - 122*	*04/23/13 12:58*	*04/25/13 06:42*	*5*
DCB Decachlorobiphenyl	*81*		*21 - 136*	*04/23/13 12:58*	*04/25/13 06:42*	*5*

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-8B (0-0.5)
Date Collected: 04/19/13 09:54
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-11
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Dieldrin	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Endrin aldehyde	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Endrin	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Endrin ketone	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Heptachlor	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Heptachlor epoxide	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
4,4'-DDT	**730**		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
4,4'-DDE	**730**		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
4,4'-DDD	**250**		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Endosulfan I	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Endosulfan II	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
alpha-BHC	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
beta-BHC	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
gamma-BHC (Lindane)	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
delta-BHC	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Endosulfan sulfate	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Methoxychlor	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Toxaphene	ND		400		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
Chlordane (technical)	ND		400		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
alpha-Chlordane	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10
gamma-Chlordane	ND		20		ug/Kg		04/23/13 12:58	04/25/13 06:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*57 - 122*	*04/23/13 12:58*	*04/25/13 06:59*	*10*
DCB Decachlorobiphenyl	*0*	*X*	*21 - 136*	*04/23/13 12:58*	*04/25/13 06:59*	*10*

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-8D (1-1.5)
Date Collected: 04/19/13 10:05
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-13
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Dieldrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Endrin aldehyde	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Endrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Endrin ketone	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Heptachlor	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Heptachlor epoxide	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
4,4'-DDT	**22**		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
4,4'-DDE	**42**		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
4,4'-DDD	**17**		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Endosulfan I	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Endosulfan II	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
alpha-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
beta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
delta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Endosulfan sulfate	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Methoxychlor	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Toxaphene	ND		200		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
Chlordane (technical)	ND		200		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
alpha-Chlordane	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5
gamma-Chlordane	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 07:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*57 - 122*	*04/23/13 12:58*	*04/25/13 07:16*	*5*
DCB Decachlorobiphenyl	*102*		*21 - 136*	*04/23/13 12:58*	*04/25/13 07:16*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**29**		2.0		mg/Kg		04/23/13 17:43	04/24/13 14:17	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-25A (1-1.5)
Date Collected: 04/19/13 11:00
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-19
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Dieldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Endrin aldehyde	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Endrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Endrin ketone	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Heptachlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
4,4'-DDT	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
4,4'-DDE	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
4,4'-DDD	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Endosulfan I	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Endosulfan II	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
alpha-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
beta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
delta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Methoxychlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Toxaphene	ND		40		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
Chlordane (technical)	ND		40		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
alpha-Chlordane	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1
gamma-Chlordane	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*57 - 122*	*04/23/13 12:58*	*04/25/13 07:33*	*1*
DCB Decachlorobiphenyl	*113*		*21 - 136*	*04/23/13 12:58*	*04/25/13 07:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.2**		4.0		mg/Kg		04/23/13 17:43	04/24/13 14:22	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-25B (0-0.5)
Date Collected: 04/19/13 11:10
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-21
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Dieldrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Endrin aldehyde	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Endrin	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Endrin ketone	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Heptachlor	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Heptachlor epoxide	**11**	**p**	9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
4,4'-DDT	**70**		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
4,4'-DDE	**200**		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
4,4'-DDD	**31**		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Endosulfan I	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Endosulfan II	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
alpha-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
beta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
delta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Endosulfan sulfate	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Methoxychlor	ND		9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Toxaphene	ND		200		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
Chlordane (technical)	**300**		200		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
alpha-Chlordane	**46**	**p**	9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5
gamma-Chlordane	**26**	**p**	9.9		ug/Kg		04/23/13 12:58	04/25/13 08:06	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*115*		*57 - 122*	*04/23/13 12:58*	*04/25/13 08:06*	*5*
DCB Decachlorobiphenyl	*95*		*21 - 136*	*04/23/13 12:58*	*04/25/13 08:06*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**52**		2.0		mg/Kg		04/23/13 17:43	04/24/13 14:26	4
Arsenic	**8.1**		3.9		mg/Kg		04/23/13 17:43	04/24/13 14:26	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-25D (0-0.5)
Date Collected: 04/19/13 11:18
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-23
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Dieldrin	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Endrin aldehyde	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Endrin	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Endrin ketone	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Heptachlor	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Heptachlor epoxide	**4.5**		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
4,4'-DDT	**71**		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
4,4'-DDE	**100**	**p**	1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
4,4'-DDD	**28**		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Endosulfan I	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Endosulfan II	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
alpha-BHC	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
beta-BHC	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
delta-BHC	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Endosulfan sulfate	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Methoxychlor	ND		1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Toxaphene	ND		39		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
Chlordane (technical)	**90**		39		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
alpha-Chlordane	**13**	**p**	1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1
gamma-Chlordane	**6.3**	**p**	1.9		ug/Kg		04/23/13 12:58	04/25/13 08:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*57 - 122*	*04/23/13 12:58*	*04/25/13 08:23*	*1*
DCB Decachlorobiphenyl	*118*		*21 - 136*	*04/23/13 12:58*	*04/25/13 08:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**42**		2.0		mg/Kg		04/23/13 17:43	04/24/13 14:31	4
Arsenic	**18**		3.9		mg/Kg		04/23/13 17:43	04/24/13 14:31	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-25F (1-1.5)
Date Collected: 04/19/13 11:28
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-24
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Dieldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Endrin aldehyde	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Endrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Endrin ketone	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Heptachlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
4,4'-DDT	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
4,4'-DDE	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
4,4'-DDD	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Endosulfan I	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Endosulfan II	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
alpha-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
beta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
delta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Methoxychlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Toxaphene	ND		39		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
Chlordane (technical)	ND		39		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
alpha-Chlordane	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1
gamma-Chlordane	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*57 - 122*	*04/23/13 12:58*	*04/25/13 08:39*	*1*
DCB Decachlorobiphenyl	*95*		*21 - 136*	*04/23/13 12:58*	*04/25/13 08:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		2.0		mg/Kg		04/23/13 17:43	04/24/13 14:35	4
Arsenic	**5.9**		3.9		mg/Kg		04/23/13 17:43	04/24/13 14:35	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-24B (0-0.5)
Date Collected: 04/19/13 11:38
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-26
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Dieldrin	**2.3**		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Endrin aldehyde	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Endrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Endrin ketone	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Heptachlor	**3.0**		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Heptachlor epoxide	**4.2**		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
4,4'-DDT	**12**		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
4,4'-DDE	**52**		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
4,4'-DDD	**7.7**		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Endosulfan I	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Endosulfan II	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
alpha-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
beta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
delta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Methoxychlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Toxaphene	ND		39		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
Chlordane (technical)	**150**		39		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
alpha-Chlordane	**26**	**p**	2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1
gamma-Chlordane	**26**		2.0		ug/Kg		04/23/13 12:58	04/25/13 08:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*57 - 122*	*04/23/13 12:58*	*04/25/13 08:55*	*1*
DCB Decachlorobiphenyl	*127*		*21 - 136*	*04/23/13 12:58*	*04/25/13 08:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**940**		1.9		mg/Kg		04/23/13 17:43	04/24/13 14:40	4
Arsenic	**5.9**		3.9		mg/Kg		04/23/13 17:43	04/24/13 14:40	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-25E (1-1.5)
Date Collected: 04/19/13 11:45
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-28
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Dieldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Endrin aldehyde	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Endrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Endrin ketone	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Heptachlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
4,4'-DDT	**3.4**		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
4,4'-DDE	**12**		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
4,4'-DDD	**5.3**		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Endosulfan I	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Endosulfan II	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
alpha-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
beta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
delta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Methoxychlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Toxaphene	ND		39		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
Chlordane (technical)	**180**		39		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
alpha-Chlordane	**35**	**p**	2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1
gamma-Chlordane	**32**		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*57 - 122*	*04/23/13 12:58*	*04/25/13 09:11*	*1*
DCB Decachlorobiphenyl	*125*		*21 - 136*	*04/23/13 12:58*	*04/25/13 09:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**40**		1.8		mg/Kg		04/23/13 17:43	04/24/13 14:53	4
Arsenic	**7.6**		3.7		mg/Kg		04/23/13 17:43	04/24/13 14:53	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-24A (1-1.5)
Date Collected: 04/19/13 11:53
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-30
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.9		mg/Kg		04/24/13 22:19	04/25/13 16:57	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-24F (1-1.5)
Date Collected: 04/19/13 12:05
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-32
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Dieldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Endrin aldehyde	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Endrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Endrin ketone	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Heptachlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
4,4'-DDT	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
4,4'-DDE	**3.5**		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
4,4'-DDD	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Endosulfan I	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Endosulfan II	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
alpha-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
beta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
delta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Methoxychlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Toxaphene	ND		39		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
Chlordane (technical)	ND		39		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
alpha-Chlordane	**2.3**		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1
gamma-Chlordane	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 09:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*57 - 122*	*04/23/13 12:58*	*04/25/13 09:28*	*1*
DCB Decachlorobiphenyl	*91*	*p*	*21 - 136*	*04/23/13 12:58*	*04/25/13 09:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**5.0**		1.9		mg/Kg		04/23/13 17:43	04/24/13 14:57	4
Arsenic	**3.8**		3.8		mg/Kg		04/23/13 17:43	04/24/13 14:57	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-24D (0-0.5)
Date Collected: 04/19/13 12:15
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-34
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Dieldrin	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Endrin aldehyde	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Endrin	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Endrin ketone	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Heptachlor	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Heptachlor epoxide	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
4,4'-DDT	**20**		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
4,4'-DDE	**55**		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
4,4'-DDD	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Endosulfan I	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Endosulfan II	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
alpha-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
beta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
delta-BHC	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Endosulfan sulfate	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Methoxychlor	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Toxaphene	ND		200		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
Chlordane (technical)	ND		200		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
alpha-Chlordane	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5
gamma-Chlordane	ND		9.9		ug/Kg		04/23/13 12:58	04/26/13 04:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*108*		*57 - 122*	*04/23/13 12:58*	*04/26/13 04:24*	*5*
DCB Decachlorobiphenyl	*124*		*21 - 136*	*04/23/13 12:58*	*04/26/13 04:24*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**25**		1.9		mg/Kg		04/23/13 17:43	04/24/13 15:02	4
Arsenic	**4.9**		3.7		mg/Kg		04/23/13 17:43	04/24/13 15:02	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-26A (1-1.5)
Date Collected: 04/19/13 12:30
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-36
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Dieldrin	**3.1**		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Endrin aldehyde	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Endrin	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Endrin ketone	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Heptachlor	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
4,4'-DDT	**6.4**		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
4,4'-DDE	**21**		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
4,4'-DDD	**3.8**		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Endosulfan I	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Endosulfan II	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
alpha-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
beta-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
delta-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Methoxychlor	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Toxaphene	ND		40		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
Chlordane (technical)	ND		40		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
alpha-Chlordane	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1
gamma-Chlordane	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*57 - 122*	*04/24/13 12:43*	*04/26/13 04:40*	*1*
DCB Decachlorobiphenyl	*117*		*21 - 136*	*04/24/13 12:43*	*04/26/13 04:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		2.0		mg/Kg		04/23/13 17:43	04/24/13 15:06	4
Arsenic	**7.4**		3.9		mg/Kg		04/23/13 17:43	04/24/13 15:06	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-26B (1-1.5)
Date Collected: 04/19/13 12:38
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-38
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Dieldrin	**3.3**		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Endrin aldehyde	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Endrin	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Endrin ketone	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Heptachlor	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
4,4'-DDT	**9.8**		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
4,4'-DDE	**14**		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
4,4'-DDD	**3.9**		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Endosulfan I	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Endosulfan II	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
alpha-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
beta-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
delta-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Methoxychlor	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Toxaphene	ND		40		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
Chlordane (technical)	ND		40		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
alpha-Chlordane	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1
gamma-Chlordane	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*57 - 122*	*04/24/13 12:43*	*04/26/13 04:57*	*1*
DCB Decachlorobiphenyl	*117*		*21 - 136*	*04/24/13 12:43*	*04/26/13 04:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.2**		1.9		mg/Kg		04/23/13 17:43	04/24/13 15:10	4
Arsenic	**6.9**		3.8		mg/Kg		04/23/13 17:43	04/24/13 15:10	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-26C (0-0.5)
Date Collected: 04/19/13 12:40
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-40
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Dieldrin	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Endrin aldehyde	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Endrin	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Endrin ketone	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Heptachlor	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Heptachlor epoxide	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
4,4'-DDT	**76**		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
4,4'-DDE	**110**		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
4,4'-DDD	**19**		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Endosulfan I	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Endosulfan II	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
alpha-BHC	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
beta-BHC	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
delta-BHC	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Endosulfan sulfate	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Methoxychlor	ND		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Toxaphene	ND		200		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
Chlordane (technical)	**380**	**p**	200		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
alpha-Chlordane	**51**	**p**	9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5
gamma-Chlordane	**33**		9.9		ug/Kg		04/24/13 12:43	04/27/13 05:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*57 - 122*	*04/24/13 12:43*	*04/27/13 05:49*	*5*
DCB Decachlorobiphenyl	*64*	*p*	*21 - 136*	*04/24/13 12:43*	*04/27/13 05:49*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**88**		1.9		mg/Kg		04/23/13 17:43	04/24/13 15:15	4
Arsenic	**13**		3.8		mg/Kg		04/23/13 17:43	04/24/13 15:15	4

Client Sample ID: SS-26D (1-1.5)
Date Collected: 04/19/13 12:44
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-41
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Dieldrin	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Endrin aldehyde	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Endrin	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Endrin ketone	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Heptachlor	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Heptachlor epoxide	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
4,4'-DDT	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
4,4'-DDE	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
4,4'-DDD	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Endosulfan I	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Endosulfan II	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
alpha-BHC	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
beta-BHC	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
gamma-BHC (Lindane)	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
delta-BHC	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Endosulfan sulfate	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Methoxychlor	ND		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Toxaphene	ND		200		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
Chlordane (technical)	ND		200		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
alpha-Chlordane	**31**		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5
gamma-Chlordane	**21**		9.8		ug/Kg		04/24/13 12:43	04/26/13 05:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*57 - 122*	*04/24/13 12:43*	*04/26/13 05:31*	*5*
DCB Decachlorobiphenyl	*129*		*21 - 136*	*04/24/13 12:43*	*04/26/13 05:31*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**18**		1.9		mg/Kg		04/24/13 22:19	04/25/13 17:01	4
Arsenic	**6.3**		3.8		mg/Kg		04/24/13 22:19	04/25/13 17:01	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-26E (0-0.5)
Date Collected: 04/19/13 12:50
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-43
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Dieldrin	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Endrin aldehyde	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Endrin	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Endrin ketone	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Heptachlor	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Heptachlor epoxide	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
4,4'-DDT	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
4,4'-DDE	**1200**		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
4,4'-DDD	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Endosulfan I	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Endosulfan II	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
alpha-BHC	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
beta-BHC	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
gamma-BHC (Lindane)	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
delta-BHC	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Endosulfan sulfate	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Methoxychlor	ND		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Toxaphene	ND		20000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
Chlordane (technical)	**150000**		20000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
alpha-Chlordane	**31000**		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500
gamma-Chlordane	**29000**		1000		ug/Kg		04/24/13 12:43	04/27/13 09:22	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*57 - 122*	*04/24/13 12:43*	*04/27/13 09:22*	*500*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*04/24/13 12:43*	*04/27/13 09:22*	*500*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**48**		1.9		mg/Kg		04/24/13 23:54	04/25/13 19:19	4
Arsenic	**7.6**		3.9		mg/Kg		04/24/13 23:54	04/25/13 19:19	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-21A (1-1.5)
Date Collected: 04/19/13 13:15
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-44
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Dieldrin	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Endrin aldehyde	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Endrin	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Endrin ketone	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Heptachlor	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
4,4'-DDT	**2.6**		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
4,4'-DDE	**17**		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
4,4'-DDD	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Endosulfan I	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Endosulfan II	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
alpha-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
beta-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
delta-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Methoxychlor	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Toxaphene	ND		40		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
Chlordane (technical)	ND		40		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
alpha-Chlordane	**2.4**		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1
gamma-Chlordane	ND		2.0		ug/Kg		04/24/13 12:43	04/27/13 09:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*57 - 122*	*04/24/13 12:43*	*04/27/13 09:05*	*1*
DCB Decachlorobiphenyl	*74*		*21 - 136*	*04/24/13 12:43*	*04/27/13 09:05*	*1*

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-21B (0-0.5)
Date Collected: 04/19/13 13:25
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-46
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Dieldrin	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Endrin aldehyde	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Endrin	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Endrin ketone	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Heptachlor	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Heptachlor epoxide	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
4,4'-DDT	**38**		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
4,4'-DDE	**830**		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
4,4'-DDD	**37**		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Endosulfan I	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Endosulfan II	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
alpha-BHC	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
beta-BHC	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
delta-BHC	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Endosulfan sulfate	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Methoxychlor	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Toxaphene	ND		200		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
Chlordane (technical)	ND		200		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
alpha-Chlordane	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5
gamma-Chlordane	ND		9.9		ug/Kg		04/24/13 12:43	04/26/13 06:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*57 - 122*	*04/24/13 12:43*	*04/26/13 06:21*	*5*
DCB Decachlorobiphenyl	*99*		*21 - 136*	*04/24/13 12:43*	*04/26/13 06:21*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**22**		1.9		mg/Kg		04/24/13 23:54	04/25/13 19:52	4
Arsenic	**4.7**		3.8		mg/Kg		04/24/13 23:54	04/25/13 19:52	4

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-135008/1-A
Matrix: Solid
Analysis Batch: 135143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135008

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Dieldrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Endrin aldehyde	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Endrin	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Endrin ketone	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Heptachlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
4,4'-DDT	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
4,4'-DDE	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
4,4'-DDD	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Endosulfan I	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Endosulfan II	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
alpha-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
beta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
delta-BHC	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Methoxychlor	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Toxaphene	ND		40		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
Chlordane (technical)	ND		40		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
alpha-Chlordane	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1
gamma-Chlordane	ND		2.0		ug/Kg		04/23/13 12:58	04/25/13 00:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*57 - 122*	*04/23/13 12:58*	*04/25/13 00:20*	*1*
DCB Decachlorobiphenyl	*114*		*21 - 136*	*04/23/13 12:58*	*04/25/13 00:20*	*1*

Lab Sample ID: LCS 720-135008/2-A
Matrix: Solid
Analysis Batch: 135143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.4	13.9		ug/Kg		85	65 - 120
Dieldrin	16.4	15.5		ug/Kg		95	72 - 120
Endrin aldehyde	16.4	15.4		ug/Kg		94	57 - 120
Endrin	16.4	15.2		ug/Kg		93	68 - 120
Endrin ketone	16.4	15.9		ug/Kg		97	67 - 120
Heptachlor	16.4	14.0		ug/Kg		86	69 - 120
Heptachlor epoxide	16.4	14.9		ug/Kg		91	68 - 120
4,4'-DDT	16.4	16.5		ug/Kg		101	51 - 120
4,4'-DDE	16.4	15.2		ug/Kg		93	70 - 120
4,4'-DDD	16.4	16.2		ug/Kg		99	69 - 120
Endosulfan I	16.4	15.0		ug/Kg		91	62 - 120
Endosulfan II	16.4	16.0		ug/Kg		98	65 - 120
alpha-BHC	16.4	14.2		ug/Kg		87	70 - 120
beta-BHC	16.4	15.2		ug/Kg		93	81 - 120
gamma-BHC (Lindane)	16.4	14.4		ug/Kg		88	72 - 120
delta-BHC	16.4	15.3		ug/Kg		93	74 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-135008/2-A
Matrix: Solid
Analysis Batch: 135143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135008

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endosulfan sulfate			16.4	16.5		ug/Kg		101	67 - 120		
Methoxychlor			16.4	16.5		ug/Kg		101	61 - 142		
alpha-Chlordane			16.4	14.9		ug/Kg		91	70 - 120		
gamma-Chlordane			16.4	14.9		ug/Kg		91	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*57 - 122*
DCB Decachlorobiphenyl	*114*		*21 - 136*

Lab Sample ID: LCSD 720-135008/3-A
Matrix: Solid
Analysis Batch: 135143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135008

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.5	14.3		ug/Kg		87	65 - 120	3	20
Dieldrin			16.5	16.2		ug/Kg		98	72 - 120	4	20
Endrin aldehyde			16.5	15.9		ug/Kg		97	57 - 120	3	20
Endrin			16.5	16.0		ug/Kg		97	68 - 120	5	20
Endrin ketone			16.5	16.7		ug/Kg		101	67 - 120	5	20
Heptachlor			16.5	14.5		ug/Kg		88	69 - 120	3	20
Heptachlor epoxide			16.5	15.6		ug/Kg		95	68 - 120	4	20
4,4'-DDT			16.5	17.2		ug/Kg		105	51 - 120	4	20
4,4'-DDE			16.5	16.0		ug/Kg		97	70 - 120	5	20
4,4'-DDD			16.5	16.9		ug/Kg		103	69 - 120	4	20
Endosulfan I			16.5	15.6		ug/Kg		95	62 - 120	4	20
Endosulfan II			16.5	16.6		ug/Kg		101	65 - 120	4	35
alpha-BHC			16.5	14.5		ug/Kg		88	70 - 120	2	20
beta-BHC			16.5	15.7		ug/Kg		95	81 - 120	3	20
gamma-BHC (Lindane)			16.5	14.8		ug/Kg		90	72 - 120	3	20
delta-BHC			16.5	15.9		ug/Kg		96	74 - 120	4	20
Endosulfan sulfate			16.5	17.0		ug/Kg		103	67 - 120	3	20
Methoxychlor			16.5	17.3		ug/Kg		105	61 - 142	5	20
alpha-Chlordane			16.5	15.6		ug/Kg		95	70 - 120	5	20
gamma-Chlordane			16.5	15.6		ug/Kg		95	68 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*57 - 122*
DCB Decachlorobiphenyl	*120*		*21 - 136*

Lab Sample ID: MB 720-135115/1-A
Matrix: Solid
Analysis Batch: 135252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Dieldrin	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Endrin aldehyde	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Endrin	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-135115/1-A
Matrix: Solid
Analysis Batch: 135252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Heptachlor	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Heptachlor epoxide	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
4,4'-DDT	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
4,4'-DDE	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
4,4'-DDD	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Endosulfan I	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Endosulfan II	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
alpha-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
beta-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
delta-BHC	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Methoxychlor	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Toxaphene	ND		39		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
Chlordane (technical)	ND		39		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
alpha-Chlordane	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1
gamma-Chlordane	ND		2.0		ug/Kg		04/24/13 12:43	04/26/13 01:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*57 - 122*	*04/24/13 12:43*	*04/26/13 01:53*	*1*
DCB Decachlorobiphenyl	*98*		*21 - 136*	*04/24/13 12:43*	*04/26/13 01:53*	*1*

Lab Sample ID: LCS 720-135115/2-A
Matrix: Solid
Analysis Batch: 135252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.2	13.0		ug/Kg		80	65 - 120
Dieldrin	16.2	15.4		ug/Kg		95	72 - 120
Endrin aldehyde	16.2	15.7		ug/Kg		97	57 - 120
Endrin	16.2	15.1		ug/Kg		93	68 - 120
Endrin ketone	16.2	16.4		ug/Kg		102	67 - 120
Heptachlor	16.2	13.5		ug/Kg		83	69 - 120
Heptachlor epoxide	16.2	15.3		ug/Kg		94	68 - 120
4,4'-DDT	16.2	17.4		ug/Kg		108	51 - 120
4,4'-DDE	16.2	15.4		ug/Kg		95	70 - 120
4,4'-DDD	16.2	16.3		ug/Kg		101	69 - 120
Endosulfan I	16.2	15.5		ug/Kg		96	62 - 120
Endosulfan II	16.2	15.7		ug/Kg		97	65 - 120
alpha-BHC	16.2	13.4		ug/Kg		83	70 - 120
beta-BHC	16.2	15.6		ug/Kg		97	81 - 120
gamma-BHC (Lindane)	16.2	13.9		ug/Kg		86	72 - 120
delta-BHC	16.2	15.4		ug/Kg		95	74 - 120
Endosulfan sulfate	16.2	16.5		ug/Kg		102	67 - 120
Methoxychlor	16.2	18.2		ug/Kg		112	61 - 142
alpha-Chlordane	16.2	15.0		ug/Kg		93	70 - 120
gamma-Chlordane	16.2	14.9		ug/Kg		92	68 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-135115/2-A
Matrix: Solid
Analysis Batch: 135252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*57 - 122*
DCB Decachlorobiphenyl	*111*		*21 - 136*

Lab Sample ID: LCSD 720-135115/3-A
Matrix: Solid
Analysis Batch: 135252

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135115

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	16.5	13.1		ug/Kg		79	65 - 120	0	20
Dieldrin	16.5	15.0		ug/Kg		91	72 - 120	3	20
Endrin aldehyde	16.5	15.3		ug/Kg		93	57 - 120	3	20
Endrin	16.5	14.7		ug/Kg		89	68 - 120	3	20
Endrin ketone	16.5	15.8		ug/Kg		96	67 - 120	4	20
Heptachlor	16.5	13.5		ug/Kg		82	69 - 120	0	20
Heptachlor epoxide	16.5	14.6		ug/Kg		88	68 - 120	5	20
4,4'-DDT	16.5	16.8		ug/Kg		102	51 - 120	4	20
4,4'-DDE	16.5	14.8		ug/Kg		90	70 - 120	4	20
4,4'-DDD	16.5	16.2		ug/Kg		98	69 - 120	1	20
Endosulfan I	16.5	14.7		ug/Kg		89	62 - 120	6	20
Endosulfan II	16.5	15.5		ug/Kg		94	65 - 120	1	35
alpha-BHC	16.5	13.5		ug/Kg		82	70 - 120	1	20
beta-BHC	16.5	15.2		ug/Kg		92	81 - 120	3	20
gamma-BHC (Lindane)	16.5	13.9		ug/Kg		84	72 - 120	0	20
delta-BHC	16.5	15.0		ug/Kg		91	74 - 120	3	20
Endosulfan sulfate	16.5	16.1		ug/Kg		98	67 - 120	3	20
Methoxychlor	16.5	17.2		ug/Kg		104	61 - 142	5	20
alpha-Chlordane	16.5	14.4		ug/Kg		87	70 - 120	4	20
gamma-Chlordane	16.5	14.3		ug/Kg		87	68 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*57 - 122*
DCB Decachlorobiphenyl	*111*		*21 - 136*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-135052/1-A
Matrix: Solid
Analysis Batch: 135133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		04/23/13 17:43	04/24/13 13:07	1
Arsenic	ND		1.0		mg/Kg		04/23/13 17:43	04/24/13 13:07	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-135052/2-A
Matrix: Solid
Analysis Batch: 135133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	52.8		mg/Kg		106	80 - 120
Arsenic	50.0	51.0		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 720-135052/3-A
Matrix: Solid
Analysis Batch: 135133

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135052

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	50.9		mg/Kg		102	80 - 120	4	20
Arsenic	50.0	49.4		mg/Kg		99	80 - 120	3	20

Lab Sample ID: LCSSRM 720-135052/13-A
Matrix: Solid
Analysis Batch: 135133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135052

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	280	271		mg/Kg		97	62 - 113
Arsenic	84.1	80.9		mg/Kg		96	69 - 119

Lab Sample ID: MB 720-135169/1-A
Matrix: Solid
Analysis Batch: 135244

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		04/24/13 22:19	04/25/13 14:58	1
Arsenic	ND		1.0		mg/Kg		04/24/13 22:19	04/25/13 14:58	1

Lab Sample ID: LCS 720-135169/2-A
Matrix: Solid
Analysis Batch: 135244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	50.4		mg/Kg		101	80 - 120
Arsenic	50.0	48.6		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 720-135169/3-A
Matrix: Solid
Analysis Batch: 135244

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135169

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	51.1		mg/Kg		102	80 - 120	1	20
Arsenic	50.0	49.4		mg/Kg		99	80 - 120	2	20

Lab Sample ID: LCSSRM 720-135169/25-A
Matrix: Solid
Analysis Batch: 135244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135169

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	280	264		mg/Kg		94	62 - 113

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 720-135169/25-A
Matrix: Solid
Analysis Batch: 135244

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135169

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			84.1	79.5		mg/Kg		95	69 - 119		

Lab Sample ID: MB 720-135172/1-A
Matrix: Solid
Analysis Batch: 135269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135172

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		04/24/13 23:54	04/25/13 18:58	1
Arsenic	ND		1.0		mg/Kg		04/24/13 23:54	04/25/13 18:58	1

Lab Sample ID: LCS 720-135172/2-A
Matrix: Solid
Analysis Batch: 135269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135172

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	48.9		mg/Kg		98	80 - 120		
Arsenic			50.0	46.4		mg/Kg		93	80 - 120		

Lab Sample ID: LCSD 720-135172/3-A
Matrix: Solid
Analysis Batch: 135269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135172

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	49.4		mg/Kg		99	80 - 120	1	20
Arsenic			50.0	46.9		mg/Kg		94	80 - 120	1	20

Lab Sample ID: LCSSRM 720-135172/25-A
Matrix: Solid
Analysis Batch: 135269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135172

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			280	249		mg/Kg		89	62 - 113		
Arsenic			84.1	73.9		mg/Kg		88	69 - 119		

Lab Sample ID: 720-49248-43 MS
Matrix: Solid
Analysis Batch: 135269

Client Sample ID: SS-26E (0-0.5)
Prep Type: Total/NA
Prep Batch: 135172

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	48		47.2	91.8		mg/Kg		93	75 - 125		
Arsenic	7.6		47.2	46.5		mg/Kg		82	75 - 125		

Lab Sample ID: 720-49248-43 MSD
Matrix: Solid
Analysis Batch: 135269

Client Sample ID: SS-26E (0-0.5)
Prep Type: Total/NA
Prep Batch: 135172

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	48		50.0	95.0		mg/Kg		94	75 - 125	3	20
Arsenic	7.6		50.0	52.4		mg/Kg		90	75 - 125	12	20

GC Semi VOA

Prep Batch: 135008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-1	SS-12A (1-1.5)	Total/NA	Solid	3546	
720-49248-3	SS-12B (0-0.5)	Total/NA	Solid	3546	
720-49248-9	SS-8A (1-1.5)	Total/NA	Solid	3546	
720-49248-11	SS-8B (0-0.5)	Total/NA	Solid	3546	
720-49248-13	SS-8D (1-1.5)	Total/NA	Solid	3546	
720-49248-19	SS-25A (1-1.5)	Total/NA	Solid	3546	
720-49248-21	SS-25B (0-0.5)	Total/NA	Solid	3546	
720-49248-23	SS-25D (0-0.5)	Total/NA	Solid	3546	
720-49248-24	SS-25F (1-1.5)	Total/NA	Solid	3546	
720-49248-26	SS-24B (0-0.5)	Total/NA	Solid	3546	
720-49248-28	SS-25E (1-1.5)	Total/NA	Solid	3546	
720-49248-32	SS-24F (1-1.5)	Total/NA	Solid	3546	
720-49248-34	SS-24D (0-0.5)	Total/NA	Solid	3546	
LCS 720-135008/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-135008/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-135008/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-36	SS-26A (1-1.5)	Total/NA	Solid	3546	
720-49248-38	SS-26B (1-1.5)	Total/NA	Solid	3546	
720-49248-40	SS-26C (0-0.5)	Total/NA	Solid	3546	
720-49248-41	SS-26D (1-1.5)	Total/NA	Solid	3546	
720-49248-43	SS-26E (0-0.5)	Total/NA	Solid	3546	
720-49248-44	SS-21A (1-1.5)	Total/NA	Solid	3546	
720-49248-46	SS-21B (0-0.5)	Total/NA	Solid	3546	
LCS 720-135115/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-135115/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-135115/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-1	SS-12A (1-1.5)	Total/NA	Solid	8081A	135008
720-49248-3	SS-12B (0-0.5)	Total/NA	Solid	8081A	135008
720-49248-9	SS-8A (1-1.5)	Total/NA	Solid	8081A	135008
720-49248-11	SS-8B (0-0.5)	Total/NA	Solid	8081A	135008
720-49248-13	SS-8D (1-1.5)	Total/NA	Solid	8081A	135008
720-49248-19	SS-25A (1-1.5)	Total/NA	Solid	8081A	135008
720-49248-21	SS-25B (0-0.5)	Total/NA	Solid	8081A	135008
720-49248-23	SS-25D (0-0.5)	Total/NA	Solid	8081A	135008
720-49248-24	SS-25F (1-1.5)	Total/NA	Solid	8081A	135008
720-49248-26	SS-24B (0-0.5)	Total/NA	Solid	8081A	135008
720-49248-28	SS-25E (1-1.5)	Total/NA	Solid	8081A	135008
720-49248-32	SS-24F (1-1.5)	Total/NA	Solid	8081A	135008
LCS 720-135008/2-A	Lab Control Sample	Total/NA	Solid	8081A	135008
LCSD 720-135008/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	135008
MB 720-135008/1-A	Method Blank	Total/NA	Solid	8081A	135008

Analysis Batch: 135252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-34	SS-24D (0-0.5)	Total/NA	Solid	8081A	135008

GC Semi VOA (Continued)

Analysis Batch: 135252 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-36	SS-26A (1-1.5)	Total/NA	Solid	8081A	135115
720-49248-38	SS-26B (1-1.5)	Total/NA	Solid	8081A	135115
720-49248-41	SS-26D (1-1.5)	Total/NA	Solid	8081A	135115
720-49248-46	SS-21B (0-0.5)	Total/NA	Solid	8081A	135115
LCS 720-135115/2-A	Lab Control Sample	Total/NA	Solid	8081A	135115
LCSD 720-135115/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	135115
MB 720-135115/1-A	Method Blank	Total/NA	Solid	8081A	135115

Analysis Batch: 135355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-40	SS-26C (0-0.5)	Total/NA	Solid	8081A	135115
720-49248-43	SS-26E (0-0.5)	Total/NA	Solid	8081A	135115
720-49248-44	SS-21A (1-1.5)	Total/NA	Solid	8081A	135115

Metals

Prep Batch: 135052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-13	SS-8D (1-1.5)	Total/NA	Solid	3050B	
720-49248-19	SS-25A (1-1.5)	Total/NA	Solid	3050B	
720-49248-21	SS-25B (0-0.5)	Total/NA	Solid	3050B	
720-49248-23	SS-25D (0-0.5)	Total/NA	Solid	3050B	
720-49248-24	SS-25F (1-1.5)	Total/NA	Solid	3050B	
720-49248-26	SS-24B (0-0.5)	Total/NA	Solid	3050B	
720-49248-28	SS-25E (1-1.5)	Total/NA	Solid	3050B	
720-49248-32	SS-24F (1-1.5)	Total/NA	Solid	3050B	
720-49248-34	SS-24D (0-0.5)	Total/NA	Solid	3050B	
720-49248-36	SS-26A (1-1.5)	Total/NA	Solid	3050B	
720-49248-38	SS-26B (1-1.5)	Total/NA	Solid	3050B	
720-49248-40	SS-26C (0-0.5)	Total/NA	Solid	3050B	
LCS 720-135052/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-135052/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-135052/13-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-135052/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 135133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-13	SS-8D (1-1.5)	Total/NA	Solid	6010B	135052
720-49248-19	SS-25A (1-1.5)	Total/NA	Solid	6010B	135052
720-49248-21	SS-25B (0-0.5)	Total/NA	Solid	6010B	135052
720-49248-23	SS-25D (0-0.5)	Total/NA	Solid	6010B	135052
720-49248-24	SS-25F (1-1.5)	Total/NA	Solid	6010B	135052
720-49248-26	SS-24B (0-0.5)	Total/NA	Solid	6010B	135052
720-49248-28	SS-25E (1-1.5)	Total/NA	Solid	6010B	135052
720-49248-32	SS-24F (1-1.5)	Total/NA	Solid	6010B	135052
720-49248-34	SS-24D (0-0.5)	Total/NA	Solid	6010B	135052
720-49248-36	SS-26A (1-1.5)	Total/NA	Solid	6010B	135052
720-49248-38	SS-26B (1-1.5)	Total/NA	Solid	6010B	135052
720-49248-40	SS-26C (0-0.5)	Total/NA	Solid	6010B	135052
LCS 720-135052/2-A	Lab Control Sample	Total/NA	Solid	6010B	135052

Metals (Continued)

Analysis Batch: 135133 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-135052/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	135052
LCSSRM 720-135052/13-A	Lab Control Sample	Total/NA	Solid	6010B	135052
MB 720-135052/1-A	Method Blank	Total/NA	Solid	6010B	135052

Prep Batch: 135169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-5	SS-11A (1-1.5)	Total/NA	Solid	3050B	
720-49248-7	SS-11B (0-0.5)	Total/NA	Solid	3050B	
720-49248-30	SS-24A (1-1.5)	Total/NA	Solid	3050B	
720-49248-41	SS-26D (1-1.5)	Total/NA	Solid	3050B	
LCS 720-135169/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-135169/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-135169/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-135169/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 135172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-43	SS-26E (0-0.5)	Total/NA	Solid	3050B	
720-49248-43 MS	SS-26E (0-0.5)	Total/NA	Solid	3050B	
720-49248-43 MSD	SS-26E (0-0.5)	Total/NA	Solid	3050B	
720-49248-46	SS-21B (0-0.5)	Total/NA	Solid	3050B	
LCS 720-135172/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-135172/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-135172/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-135172/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 135244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-5	SS-11A (1-1.5)	Total/NA	Solid	6010B	135169
720-49248-7	SS-11B (0-0.5)	Total/NA	Solid	6010B	135169
720-49248-30	SS-24A (1-1.5)	Total/NA	Solid	6010B	135169
720-49248-41	SS-26D (1-1.5)	Total/NA	Solid	6010B	135169
LCS 720-135169/2-A	Lab Control Sample	Total/NA	Solid	6010B	135169
LCSD 720-135169/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	135169
LCSSRM 720-135169/25-A	Lab Control Sample	Total/NA	Solid	6010B	135169
MB 720-135169/1-A	Method Blank	Total/NA	Solid	6010B	135169

Analysis Batch: 135269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-43	SS-26E (0-0.5)	Total/NA	Solid	6010B	135172
720-49248-43 MS	SS-26E (0-0.5)	Total/NA	Solid	6010B	135172
720-49248-43 MSD	SS-26E (0-0.5)	Total/NA	Solid	6010B	135172
720-49248-46	SS-21B (0-0.5)	Total/NA	Solid	6010B	135172
LCS 720-135172/2-A	Lab Control Sample	Total/NA	Solid	6010B	135172
LCSD 720-135172/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	135172
LCSSRM 720-135172/25-A	Lab Control Sample	Total/NA	Solid	6010B	135172
MB 720-135172/1-A	Method Blank	Total/NA	Solid	6010B	135172

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-12A (1-1.5)

Lab Sample ID: 720-49248-1

Date Collected: 04/19/13 09:00

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 06:09	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 06:09	JZ	TAL PLS

Client Sample ID: SS-12B (0-0.5)

Lab Sample ID: 720-49248-3

Date Collected: 04/19/13 09:10

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135143	04/25/13 06:26	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135143	04/25/13 06:26	JZ	TAL PLS

Client Sample ID: SS-11A (1-1.5)

Lab Sample ID: 720-49248-5

Date Collected: 04/19/13 09:18

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			135169	04/24/13 22:19	CDT	TAL PLS
Total/NA	Analysis	6010B		4	135244	04/25/13 16:48	SK	TAL PLS

Client Sample ID: SS-11B (0-0.5)

Lab Sample ID: 720-49248-7

Date Collected: 04/19/13 09:25

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			135169	04/24/13 22:19	CDT	TAL PLS
Total/NA	Analysis	6010B		4	135244	04/25/13 16:53	SK	TAL PLS

Client Sample ID: SS-8A (1-1.5)

Lab Sample ID: 720-49248-9

Date Collected: 04/19/13 09:45

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135143	04/25/13 06:42	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135143	04/25/13 06:42	JZ	TAL PLS

Client Sample ID: SS-8B (0-0.5)

Lab Sample ID: 720-49248-11

Date Collected: 04/19/13 09:54

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		10	135143	04/25/13 06:59	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		10	135143	04/25/13 06:59	JZ	TAL PLS

Client Sample ID: SS-8D (1-1.5)

Lab Sample ID: 720-49248-13

Date Collected: 04/19/13 10:05

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135143	04/25/13 07:16	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 14:17	EFH	TAL PLS

Client Sample ID: SS-25A (1-1.5)

Lab Sample ID: 720-49248-19

Date Collected: 04/19/13 11:00

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 07:33	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 07:33	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 14:22	EFH	TAL PLS

Client Sample ID: SS-25B (0-0.5)

Lab Sample ID: 720-49248-21

Date Collected: 04/19/13 11:10

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135143	04/25/13 08:06	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135143	04/25/13 08:06	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 14:26	EFH	TAL PLS

Client Sample ID: SS-25D (0-0.5)

Lab Sample ID: 720-49248-23

Date Collected: 04/19/13 11:18

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 08:23	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 08:23	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 14:31	EFH	TAL PLS

Client Sample ID: SS-25F (1-1.5)

Lab Sample ID: 720-49248-24

Date Collected: 04/19/13 11:28

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 08:39	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 08:39	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 14:35	EFH	TAL PLS

Client Sample ID: SS-24B (0-0.5)

Lab Sample ID: 720-49248-26

Date Collected: 04/19/13 11:38

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 08:55	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 08:55	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 14:40	EFH	TAL PLS

Client Sample ID: SS-25E (1-1.5)

Lab Sample ID: 720-49248-28

Date Collected: 04/19/13 11:45

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 09:11	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 09:11	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 14:53	EFH	TAL PLS

Client Sample ID: SS-24A (1-1.5)

Lab Sample ID: 720-49248-30

Date Collected: 04/19/13 11:53

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			135169	04/24/13 22:19	CDT	TAL PLS
Total/NA	Analysis	6010B		4	135244	04/25/13 16:57	SK	TAL PLS

Client Sample ID: SS-24F (1-1.5)

Lab Sample ID: 720-49248-32

Date Collected: 04/19/13 12:05

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 09:28	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135143	04/25/13 09:28	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 14:57	EFH	TAL PLS

Client Sample ID: SS-24D (0-0.5)

Lab Sample ID: 720-49248-34

Date Collected: 04/19/13 12:15

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135252	04/26/13 04:24	JZ	TAL PLS
Total/NA	Prep	3546			135008	04/23/13 12:58	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135252	04/26/13 04:24	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 15:02	EFH	TAL PLS

Client Sample ID: SS-26A (1-1.5)

Lab Sample ID: 720-49248-36

Date Collected: 04/19/13 12:30

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135252	04/26/13 04:40	JZ	TAL PLS
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135252	04/26/13 04:40	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 15:06	EFH	TAL PLS

Client Sample ID: SS-26B (1-1.5)

Lab Sample ID: 720-49248-38

Date Collected: 04/19/13 12:38

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135252	04/26/13 04:57	JZ	TAL PLS
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135252	04/26/13 04:57	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 15:10	EFH	TAL PLS

Client Sample ID: SS-26C (0-0.5)

Lab Sample ID: 720-49248-40

Date Collected: 04/19/13 12:40

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135355	04/27/13 05:49	JZ	TAL PLS
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135355	04/27/13 05:49	JZ	TAL PLS
Total/NA	Prep	3050B			135052	04/23/13 17:43	JR	TAL PLS
Total/NA	Analysis	6010B		4	135133	04/24/13 15:15	EFH	TAL PLS

Client Sample ID: SS-26D (1-1.5)

Lab Sample ID: 720-49248-41

Date Collected: 04/19/13 12:44

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135252	04/26/13 05:31	JZ	TAL PLS
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135252	04/26/13 05:31	JZ	TAL PLS
Total/NA	Prep	3050B			135169	04/24/13 22:19	CDT	TAL PLS
Total/NA	Analysis	6010B		4	135244	04/25/13 17:01	SK	TAL PLS

Client Sample ID: SS-26E (0-0.5)

Lab Sample ID: 720-49248-43

Date Collected: 04/19/13 12:50

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		500	135355	04/27/13 09:22	JZ	TAL PLS
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		500	135355	04/27/13 09:22	JZ	TAL PLS
Total/NA	Prep	3050B			135172	04/24/13 23:54	JR	TAL PLS
Total/NA	Analysis	6010B		4	135269	04/25/13 19:19	SK	TAL PLS

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Client Sample ID: SS-21A (1-1.5)

Lab Sample ID: 720-49248-44

Date Collected: 04/19/13 13:15

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135355	04/27/13 09:05	JZ	TAL PLS
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		1	135355	04/27/13 09:05	JZ	TAL PLS

Client Sample ID: SS-21B (0-0.5)

Lab Sample ID: 720-49248-46

Date Collected: 04/19/13 13:25

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135252	04/26/13 06:21	JZ	TAL PLS
Total/NA	Prep	3546			135115	04/24/13 12:43	JRM	TAL PLS
Total/NA	Analysis	8081A		5	135252	04/26/13 06:21	JZ	TAL PLS
Total/NA	Prep	3050B			135172	04/24/13 23:54	JR	TAL PLS
Total/NA	Analysis	6010B		4	135269	04/25/13 19:52	SK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-49248-1	SS-12A (1-1.5)	Solid	04/19/13 09:00	04/19/13 15:06
720-49248-3	SS-12B (0-0.5)	Solid	04/19/13 09:10	04/19/13 15:06
720-49248-5	SS-11A (1-1.5)	Solid	04/19/13 09:18	04/19/13 15:06
720-49248-7	SS-11B (0-0.5)	Solid	04/19/13 09:25	04/19/13 15:06
720-49248-9	SS-8A (1-1.5)	Solid	04/19/13 09:45	04/19/13 15:06
720-49248-11	SS-8B (0-0.5)	Solid	04/19/13 09:54	04/19/13 15:06
720-49248-13	SS-8D (1-1.5)	Solid	04/19/13 10:05	04/19/13 15:06
720-49248-19	SS-25A (1-1.5)	Solid	04/19/13 11:00	04/19/13 15:06
720-49248-21	SS-25B (0-0.5)	Solid	04/19/13 11:10	04/19/13 15:06
720-49248-23	SS-25D (0-0.5)	Solid	04/19/13 11:18	04/19/13 15:06
720-49248-24	SS-25F (1-1.5)	Solid	04/19/13 11:28	04/19/13 15:06
720-49248-26	SS-24B (0-0.5)	Solid	04/19/13 11:38	04/19/13 15:06
720-49248-28	SS-25E (1-1.5)	Solid	04/19/13 11:45	04/19/13 15:06
720-49248-30	SS-24A (1-1.5)	Solid	04/19/13 11:53	04/19/13 15:06
720-49248-32	SS-24F (1-1.5)	Solid	04/19/13 12:05	04/19/13 15:06
720-49248-34	SS-24D (0-0.5)	Solid	04/19/13 12:15	04/19/13 15:06
720-49248-36	SS-26A (1-1.5)	Solid	04/19/13 12:30	04/19/13 15:06
720-49248-38	SS-26B (1-1.5)	Solid	04/19/13 12:38	04/19/13 15:06
720-49248-40	SS-26C (0-0.5)	Solid	04/19/13 12:40	04/19/13 15:06
720-49248-41	SS-26D (1-1.5)	Solid	04/19/13 12:44	04/19/13 15:06
720-49248-43	SS-26E (0-0.5)	Solid	04/19/13 12:50	04/19/13 15:06
720-49248-44	SS-21A (1-1.5)	Solid	04/19/13 13:15	04/19/13 15:06
720-49248-46	SS-21B (0-0.5)	Solid	04/19/13 13:25	04/19/13 15:06

CORNERSTONE EARTH GROUP

Chain of Custody Record 720-49248

Randall 145515

	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date: 4/19/13	COC No:
Cornerstone Earth Group, Inc.	Tel/Fax:	Lab Contact:	Carrier:	1 of 4 COCs
1259 Oakmead Parkway	Analysis Turnaround Time			Laboratory's Job No.
Sunnyvale, California 94085				
(408) 245-4600 Phone	TAT if different from Below ____			
(408) 245-4620 FAX	☒ 1 week			
Project Name: PROSPECT AVE	☐ 3 days			
Site: LOS GATOS	☐ 2 days			
Project Number: 440-1-6	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCP	LEAD	ARSENIC	HOLD	Laboratory's Sample Specific Notes:
1	SS-12A (1-1.5)	4/19/13	9:00	GRAB	SOIL	1		X				
2	SS-12A (2-2.5)		9:05								X	
3	SS-12B (0-0.5)		9:10					X				
4	SS-12C (0-0.5)		9:12								X	HOLD
5	SS-11A (1-1.5)		9:18						X			
6	SS-11A (2-2.5)		9:23								X	
7	SS-11B (0-0.5)		9:25						X			
8	SS-11C (0-0.5)		9:28								X	HOLD
9	SS-8A (1-1.5)		945					X				
10	SS-8A (2-2.5)		950								X	
11	SS-8B (0-0.5)		954					X				
12	SS-8C (0-0.5)		957								X	

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH; 6= Other ____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

4-12

Relinquished by:	Company:	Date/Time: 1506 4/19/13	Received by:	Company:	Date/Time: 4-19-13 1506
Relinquished by:	Company:	Date/Time:	Received by:		
Relinquished by:	Company:	Date/Time:	Received by		

720-49248 Chain of Custody

4/30/2013

CORNERSTONE EARTH GROUP

Chain of Custody Record 720-49248

Randall 145515

Cornerstone Earth Group, Inc.	Project Manager: Kurt Soenen	Site Contact: ~~Noah Hornsby~~	Date: 4/19/13
1259 Oakmead Parkway	Tel/Fax:	Lab Contact:	Carrier:
Sunnyvale, California 94085	Analysis Turnaround Time		
(408) 245-4600 Phone	TAT if different from Below ____		
(408) 245-4620 FAX	☒ 1 week		
Project Name: PROSPECT AVE	☐ 3 days		
Site: @ LOS GATOS	☐ 2 days		
Project Number: 440-1-6	☐ 1 day		

COC No: 2 of 4 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCP	LEAD	ARSENIC	H2D	Laboratory's Sample Specific Notes:
13	SS-8D (1-1.5')	4/19/13	1005	LINER	SOIL	1		X	X			
14	SS-8D (2-2.5')		1009								X	
15	SS-8E (0-0.5')		1012								X	
16	SS-8F (0-0.5')		1015								X	
17	SS-4B (0-0.5')		1037								X	
18	SS-4C (0-0.5')		1041								X	
19	SS-25A (1-1.5')		1100						X			
20	SS-25A (2-2.5')		1103								X	
21	SS-25B (0-0.5')		1110					X	X		X	
22	SS-25C (0-0.5')		1115								X	
23	SS-25D (0-0.5')		1118					X	X		X	
24	SS-25F 1-1.5'		1128	↓	↓	↓		X	X		X	

Preservation Used: 1= Ice, 2= HCl, 3= H_2SO_4; 4=HNO_3, 5=NaOH; 6= Other ____

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

4.12

Relinquished by:	Company: LEG	Date/Time: 4/19/13 1506	Received by:	Company:	Date/Time: 4-19-13 1506
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by	Company	Date/Time

4/30/2013

CORNERSTONE EARTH GROUP

Chain of Custody Record

720-49248 148515

4/30/2013

	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date:
Cornerstone Earth Group, Inc.	Tel/Fax:	Lab Contact:	Carrier:
1259 Oakmead Parkway	Analysis Turnaround Time		COC No: 3 of 4 COCs
Sunnyvale, California 94085			Laboratory's Job No.
(408) 245-4600 Phone	TAT if different from Below ____		
(408) 245-4620 FAX	☒ 1 week		
Project Name: PROSPECT AVE	☐ 3 days		
Site: LOS GATOS	☐ 2 days		
Project Number: 440-1-6	☐ 1 day		

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OCP	LEAD	ARSENIC	HOLD	Laboratory's Sample Specific Notes
25	SS-25F (2-2.5)	4/19/13	1130	GRAB	SOIL	1					X	
26	SS-24B (0-0.5)		1138					X	X	X		
27	SS-24C (0-0.5)		1140								X	
28	SS-25E (1-1.5)		1145					X	X	X		
29	SS-25E (2-2.5)		1148								X	
30	SS-24F (1-1.5)		1153								X	
31	SS-24A (2-2.5)		1158								X	
32	SS-24F (1-1.5)		1205					X	X	X		
33	SS-24F (2-2.5)		1210								X	
34	SS-24D (0-0.5)		1215					X	X	X		
35	SS-24E (0-0.5)		1217								X	
36	SS-26A (1-1.5)		1230					X	X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

4.1°C

Relinquished by:	Company: LEG	Date/Time: 4/19/13 1506	Received by:	Company:	Date/Time: 4-19-13 1506
Relinquished by:	Company:	Date/Time	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time	Received by:	Company	Date/Time

CORNERSTONE EARTH GROUP

Chain of Custody Record 720-49248

145515

4/30/2013

	Project Manager: Kurt Soenen	Site Contact: Noah Hornsby	Date:
Cornerstone Earth Group, Inc.	Tel/Fax:	Lab Contact:	Carrier:
1259 Oakmead Parkway	Analysis Turnaround Time		
Sunnyvale, California 94085			
(408) 245-4600 Phone	☒ TAT if different from Below ____		
(408) 245-4620 FAX	☐ 1 week		
Project Name: PROSPECT AVE	☐ 3 days		
Site: LOS GATOS	☐ 2 days		
Project Number: 4404-6	☐ 1 day		

COC No: 4 of 4 COCs

Laboratory's Job No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	OLP	LEAD	ARSENIC	HOLD	Laboratory's Sample Specific Notes:
37	SS-26A 2-2.5	4/19/13	1233	GRAB	Soil	1					X	
38	SS-26B 1-1.5		1238					X	X	X		
39	SS-26B 2-2.5		1239								X	
40	SS-26C 0-0.5		1240					X	X	X		
41	SS-26D 1-1.5		1244					X	X	X		
42	SS-26D 2-2.5		1247								X	
43	SS-26E 0-0.5		1250					X	X	X		
44	SS-21A 1-1.5		1315					X				
45	SS-21A 2-2.5		1320								X	
46	SS-21B 0-0.5		1325					X	X	X		
47	SS-21C 0-0.5		1330								X	

Preservation Used 1= Ice, 2= HCl, 3= H2SO4; 4=HNO3, 5=NaOH; 6= Other ____

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

4.1°C

Relinquished by:	Company: LEC	Date/Time: 4/19/13 1506	Received by:	Company:	Date/Time: 4-19-13 1506
Relinquished by:	Company	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time.	Received by:	Company:	Date/Time

Salimpour, Afsaneh

From: Randall R. Bleichner [rbleichner@cornerstoneearth.com]
Sent: Monday, April 22, 2013 9:19 AM
To: Salimpour, Afsaneh
Subject: Change of anaylsis for samples from 4/19/13

Hi Afsaneh,

I dropped off some soil samples on Friday for a site in Los Gatos with the our project number of 440-1-6, and I wanted to change the analysis for sample 25A (1-1.5) from Lead and Arsenic to OCP and Arsenic.

Thanks,

Randall Bleichner
Staff Geologist

CORNERSTONE
EARTH GROUP
1270 Springbrook Road, Suite 101 | Walnut Creek, CA 94597
T 925-988-9500, Ext. 15 | F 925-988-9501
C 925.817.8371
E rbleichner@cornerstoneearth.com

www.cornerstoneearth.com


720-49248 Chain of Custody

720-49248-REV

Salimpour, Afsaneh

From: Randall R. Bleichner [rbleichner@cornerstoneearth.com]
Sent: Tuesday, April 23, 2013 2:50 PM
To: Salimpour, Afsaneh
Subject: RE: Sample Login Confirmation for 720-49248, Prospect Ave /Los Gatos

Ok good. Then I think it is fair to say that I mislabeled the 26B 0-0.5 and that should be in fact 21B (0-0.5), please analyze that sample for OCPs, lead and arsenic.

Did you see my note from Monday regarding sample 25A (1-1.5)? I wanted to change that the analysis from lead and arsenic to OCP and arsenic.

Thank you!

From: Salimpour, Afsaneh [mailto:Afsaneh.Salimpour@testamericainc.com]
Sent: Tuesday, April 23, 2013 2:43 PM
To: Randall R. Bleichner
Subject: RE: Sample Login Confirmation for 720-49248, Prospect Ave /Los Gatos

Sorry we do have that sample which is on Hold.

From: Randall R. Bleichner [mailto:rbleichner@cornerstoneearth.com]
Sent: Tuesday, April 23, 2013 2:39 PM
To: Salimpour, Afsaneh
Subject: RE: Sample Login Confirmation for 720-49248, Prospect Ave /Los Gatos

Do you have 26B 2-2.5?

From: Salimpour, Afsaneh [mailto:Afsaneh.Salimpour@testamericainc.com]
Sent: Tuesday, April 23, 2013 2:37 PM
To: Randall R. Bleichner
Subject: RE: Sample Login Confirmation for 720-49248, Prospect Ave /Los Gatos

We have:
26B (1-1.5)

From: Randall R. Bleichner [mailto:rbleichner@cornerstoneearth.com]
Sent: Tuesday, April 23, 2013 2:01 PM
To: Salimpour, Afsaneh
Subject: RE: Sample Login Confirmation for 720-49248, Prospect Ave /Los Gatos

Hi Afanseh,

Can you tell me what other 26B samples you have?


720-49248 Chain of Custody

Thanks,
Randall

From: Randall R. Bleichner
Sent: Monday, April 22, 2013 4:44 PM
To: Salimpour, Afsaneh

Subject: Re: Sample Login Confirmation for 720-49248, Prospect Ave /Los Gatos

Can you tell me what other 26B and 21B samples there are? There should only be a 26B for 1-1.5 and 2-2.5 I believe the 26B 0-0.5 should be the 21B 0-0.5.

-Randall.
Sent from my iPhone.

On Apr 22, 2013, at 4:38 PM, "Salimpour, Afsaneh" <Afsaneh.Salimpour@testamericainc.com> wrote:

> I did write the depth next to the samples.
> Thanks.
>
> ---
>
> **From:** Randall R. Bleichner [mailto:rbleichner@cornerstoneearth.com]
> **Sent:** Monday, April 22, 2013 4:25 PM
> **To:** Salimpour, Afsaneh
> **Subject:** Re: Sample Login Confirmation for 720-49248, Prospect Ave /Los Gatos
>
> Hi Afsaeh,
>
> I must have mislabeled one of these. Can you tell me what samples and the depths for SS-21B and SS-26B. I assuming that I wrote the wrong ID or depth on one of these.
>
> -Randall.
> Sent from my iPhone.
>
> On Apr 22, 2013, at 2:35 PM, "Kurt M. Soenen" <ksoenen@cornerstoneearth.com> wrote:
>
> > Randall, see below from the laboratory
> > Sincerely,
> > Kurt M. Soenen, P.E.
> > Principal Engineer
> > <image001.jpg>
> > 1259 Oakmead Parkway
> > Sunnyvale, California 94085
> > p 408-245-4600 x110
> > f 408-245-4620
> > c 408-605-3037
> > www.cornerstoneearth.com
> > **From:** Salimpour, Afsaneh [mailto:afsaneh.salimpour@testamericainc.com]
> > **Sent:** Monday, April 22, 2013 11:41 AM
> > **To:** Kurt M. Soenen
> > **Subject:** Sample Login Confirmation for 720-49248, Prospect Ave /Los Gatos
> >
> > Did not receive sample SS-21B (0-0.5). Logged on hold. Received 1 sample not listed on coc SB-26B (0-0.5). Logged on hold.
> >
> > **AFSANEH SALIMPOUR**
> >
> > TestAmerica Pleasanton
> > THE LEADER IN ENVIRONMENTAL TESTING

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-49248-1

Login Number: 49248

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-49248-2
Client Project/Site: Prospect Ave /Los Gatos

For:
Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94085

Attn: Kurt Soenen

Authorized for release by:
5/6/2013 4:55:19 PM

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-49248-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-49248-2

Comments
No additional comments.

Receipt
The samples were received on 4/19/2013 3:06 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

Except:

Did not receive sample SS-21B (0-0.5). Logged on hold. Received 1 sample not listed on coc SB-26B (0-0.5). Logged on hold.

GC Semi VOA

Method(s) 8081A: The following sample(s) was diluted due to color. SS-4B (0-0.5) (720-49248-17). Elevated reporting limits (RL) are provided.

Method(s) 8081A: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: SS-8C (0-0.5) (720-49248-12).

Method(s) 8081A: The following sample(s) was diluted due to color.: SS-8C (0-0.5) (720-49248-12), SS-8E (0-0.5) (720-49248-15). Elevated reporting limits (RL) are provided.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Client Sample ID: SS-11C (0-0.5) — Lab Sample ID: 720-49248-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	76		1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-8C (0-0.5) — Lab Sample ID: 720-49248-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	210		20		ug/Kg	10		8081A	Total/NA
4,4'-DDE	430		20		ug/Kg	10		8081A	Total/NA
4,4'-DDD	250		20		ug/Kg	10		8081A	Total/NA

Client Sample ID: SS-8E (0-0.5) — Lab Sample ID: 720-49248-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	250		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	1300		9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDD	320		9.9		ug/Kg	5		8081A	Total/NA

Client Sample ID: SS-4B (0-0.5) — Lab Sample ID: 720-49248-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	380		9.8		ug/Kg	5		8081A	Total/NA
4,4'-DDE	930		9.8		ug/Kg	5		8081A	Total/NA
4,4'-DDD	14		9.8		ug/Kg	5		8081A	Total/NA
Lead	85		2.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-24C (0-0.5) — Lab Sample ID: 720-49248-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	95		2.0		mg/Kg	4		6010B	Total/NA

Client Sample ID: SS-24B (0-0.5) — Lab Sample ID: 720-49248-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	30		1.9		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Client Sample ID: SS-11C (0-0.5)
Date Collected: 04/19/13 09:28
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-8
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	76		1.9		mg/Kg		05/01/13 20:31	05/02/13 13:24	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Client Sample ID: SS-8C (0-0.5)
Date Collected: 04/19/13 09:57
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-12
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Dieldrin	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Endrin aldehyde	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Endrin	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Endrin ketone	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Heptachlor	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Heptachlor epoxide	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
4,4'-DDT	**210**		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
4,4'-DDE	**430**		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
4,4'-DDD	**250**		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Endosulfan I	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Endosulfan II	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
alpha-BHC	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
beta-BHC	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
gamma-BHC (Lindane)	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
delta-BHC	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Endosulfan sulfate	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Methoxychlor	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Toxaphene	ND		390		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
Chlordane (technical)	ND		390		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
alpha-Chlordane	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10
gamma-Chlordane	ND		20		ug/Kg		05/02/13 12:08	05/04/13 08:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*57 - 122*	*05/02/13 12:08*	*05/04/13 08:07*	*10*
DCB Decachlorobiphenyl	*0*	*X D*	*21 - 136*	*05/02/13 12:08*	*05/04/13 08:07*	*10*

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Client Sample ID: SS-8E (0-0.5)
Date Collected: 04/19/13 10:12
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-15
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Dieldrin	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Endrin aldehyde	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Endrin	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Endrin ketone	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Heptachlor	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Heptachlor epoxide	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
4,4'-DDT	**250**		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
4,4'-DDE	**1300**		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
4,4'-DDD	**320**		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Endosulfan I	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Endosulfan II	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
alpha-BHC	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
beta-BHC	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
delta-BHC	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Endosulfan sulfate	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Methoxychlor	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Toxaphene	ND		200		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
Chlordane (technical)	ND		200		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
alpha-Chlordane	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5
gamma-Chlordane	ND		9.9		ug/Kg		05/02/13 12:08	05/04/13 09:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*57 - 122*	*05/02/13 12:08*	*05/04/13 09:44*	*5*
DCB Decachlorobiphenyl	*119*		*21 - 136*	*05/02/13 12:08*	*05/04/13 09:44*	*5*

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Client Sample ID: SS-4B (0-0.5)
Date Collected: 04/19/13 10:37
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-17
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Dieldrin	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Endrin aldehyde	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Endrin	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Endrin ketone	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Heptachlor	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Heptachlor epoxide	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
4,4'-DDT	**380**		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
4,4'-DDE	**930**		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
4,4'-DDD	**14**		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Endosulfan I	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Endosulfan II	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
alpha-BHC	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
beta-BHC	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
gamma-BHC (Lindane)	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
delta-BHC	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Endosulfan sulfate	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Methoxychlor	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Toxaphene	ND		200		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
Chlordane (technical)	ND		200		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
alpha-Chlordane	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5
gamma-Chlordane	ND		9.8		ug/Kg		05/02/13 12:08	05/04/13 18:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*108*		*57 - 122*	*05/02/13 12:08*	*05/04/13 18:23*	*5*
DCB Decachlorobiphenyl	*115*		*21 - 136*	*05/02/13 12:08*	*05/04/13 18:23*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**85**		2.0		mg/Kg		05/01/13 20:31	05/02/13 13:29	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Client Sample ID: SS-24C (0-0.5)
Date Collected: 04/19/13 11:40
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-27
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	95		2.0		mg/Kg		05/01/13 20:31	05/02/13 13:33	4

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Client Sample ID: SS-24B (0-0.5)
Date Collected: 04/19/13 11:38
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-49
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	30		1.9		mg/Kg		05/01/13 20:31	05/02/13 13:37	4

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-135699/1-A
Matrix: Solid
Analysis Batch: 135838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Dieldrin	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Endrin aldehyde	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Endrin	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Endrin ketone	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Heptachlor	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
4,4'-DDT	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
4,4'-DDE	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
4,4'-DDD	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Endosulfan I	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Endosulfan II	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
alpha-BHC	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
beta-BHC	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
delta-BHC	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Methoxychlor	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Toxaphene	ND		40		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
Chlordane (technical)	ND		40		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
alpha-Chlordane	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1
gamma-Chlordane	ND		2.0		ug/Kg		05/02/13 12:08	05/04/13 00:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*57 - 122*	*05/02/13 12:08*	*05/04/13 00:14*	*1*
DCB Decachlorobiphenyl	*91*		*21 - 136*	*05/02/13 12:08*	*05/04/13 00:14*	*1*

Lab Sample ID: LCS 720-135699/2-A
Matrix: Solid
Analysis Batch: 135838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.5	12.9		ug/Kg		78	65 - 120
Dieldrin	16.5	14.5		ug/Kg		88	72 - 120
Endrin aldehyde	16.5	13.9		ug/Kg		84	57 - 120
Endrin	16.5	14.5		ug/Kg		88	68 - 120
Endrin ketone	16.5	14.1		ug/Kg		86	67 - 120
Heptachlor	16.5	13.9		ug/Kg		84	69 - 120
Heptachlor epoxide	16.5	14.2		ug/Kg		86	68 - 120
4,4'-DDT	16.5	14.9		ug/Kg		90	51 - 120
4,4'-DDE	16.5	14.5		ug/Kg		88	70 - 120
4,4'-DDD	16.5	14.4		ug/Kg		87	69 - 120
Endosulfan I	16.5	14.4		ug/Kg		87	62 - 120
Endosulfan II	16.5	14.5		ug/Kg		88	65 - 120
alpha-BHC	16.5	14.0		ug/Kg		85	70 - 120
beta-BHC	16.5	15.1		ug/Kg		91	81 - 120
gamma-BHC (Lindane)	16.5	14.2		ug/Kg		86	72 - 120
delta-BHC	16.5	14.8		ug/Kg		90	74 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-135699/2-A
Matrix: Solid
Analysis Batch: 135838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135699

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endosulfan sulfate			16.5	14.8		ug/Kg		90	67 - 120		
Methoxychlor			16.5	14.6		ug/Kg		89	61 - 142		
alpha-Chlordane			16.5	14.4		ug/Kg		87	70 - 120		
gamma-Chlordane			16.5	14.4		ug/Kg		87	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*85*		*57 - 122*
DCB Decachlorobiphenyl	*93*		*21 - 136*

Lab Sample ID: LCSD 720-135699/3-A
Matrix: Solid
Analysis Batch: 135838

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135699

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.3	13.7		ug/Kg		84	65 - 120	6	20
Dieldrin			16.3	15.2		ug/Kg		93	72 - 120	5	20
Endrin aldehyde			16.3	14.4		ug/Kg		88	57 - 120	3	20
Endrin			16.3	15.2		ug/Kg		93	68 - 120	4	20
Endrin ketone			16.3	14.8		ug/Kg		91	67 - 120	5	20
Heptachlor			16.3	14.7		ug/Kg		90	69 - 120	6	20
Heptachlor epoxide			16.3	14.9		ug/Kg		91	68 - 120	5	20
4,4'-DDT			16.3	15.6		ug/Kg		96	51 - 120	5	20
4,4'-DDE			16.3	15.2		ug/Kg		93	70 - 120	5	20
4,4'-DDD			16.3	14.9		ug/Kg		92	69 - 120	5	20
Endosulfan I			16.3	14.9		ug/Kg		91	62 - 120	4	20
Endosulfan II			16.3	15.0		ug/Kg		92	65 - 120	4	35
alpha-BHC			16.3	14.9		ug/Kg		91	70 - 120	6	20
beta-BHC			16.3	15.9		ug/Kg		97	81 - 120	5	20
gamma-BHC (Lindane)			16.3	15.1		ug/Kg		93	72 - 120	6	20
delta-BHC			16.3	15.5		ug/Kg		95	74 - 120	5	20
Endosulfan sulfate			16.3	15.3		ug/Kg		94	67 - 120	4	20
Methoxychlor			16.3	15.7		ug/Kg		96	61 - 142	7	20
alpha-Chlordane			16.3	15.1		ug/Kg		93	70 - 120	5	20
gamma-Chlordane			16.3	15.1		ug/Kg		93	68 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*57 - 122*
DCB Decachlorobiphenyl	*98*		*21 - 136*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-135657/1-A
Matrix: Solid
Analysis Batch: 135711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		05/01/13 20:31	05/02/13 11:43	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-135657/2-A
Matrix: Solid
Analysis Batch: 135711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	48.9		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 720-135657/3-A
Matrix: Solid
Analysis Batch: 135711

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 135657

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	48.6		mg/Kg		97	80 - 120	1	20

Lab Sample ID: LCSSRM 720-135657/25-A
Matrix: Solid
Analysis Batch: 135711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135657

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	294	261		mg/Kg		89	62 - 113

GC Semi VOA

Prep Batch: 135699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-12	SS-8C (0-0.5)	Total/NA	Solid	3546	
720-49248-15	SS-8E (0-0.5)	Total/NA	Solid	3546	
720-49248-17	SS-4B (0-0.5)	Total/NA	Solid	3546	
LCS 720-135699/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-135699/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-135699/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-12	SS-8C (0-0.5)	Total/NA	Solid	8081A	135699
720-49248-15	SS-8E (0-0.5)	Total/NA	Solid	8081A	135699
LCS 720-135699/2-A	Lab Control Sample	Total/NA	Solid	8081A	135699
LCSD 720-135699/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	135699
MB 720-135699/1-A	Method Blank	Total/NA	Solid	8081A	135699

Analysis Batch: 135867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-17	SS-4B (0-0.5)	Total/NA	Solid	8081A	135699

Metals

Prep Batch: 135657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-8	SS-11C (0-0.5)	Total/NA	Solid	3050B	
720-49248-17	SS-4B (0-0.5)	Total/NA	Solid	3050B	
720-49248-27	SS-24C (0-0.5)	Total/NA	Solid	3050B	
720-49248-49	SS-24B (0-0.5)	Total/NA	Solid	3050B	
LCS 720-135657/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-135657/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-135657/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-135657/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 135711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-8	SS-11C (0-0.5)	Total/NA	Solid	6010B	135657
720-49248-17	SS-4B (0-0.5)	Total/NA	Solid	6010B	135657
720-49248-27	SS-24C (0-0.5)	Total/NA	Solid	6010B	135657
720-49248-49	SS-24B (0-0.5)	Total/NA	Solid	6010B	135657
LCS 720-135657/2-A	Lab Control Sample	Total/NA	Solid	6010B	135657
LCSD 720-135657/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	135657
LCSSRM 720-135657/25-A	Lab Control Sample	Total/NA	Solid	6010B	135657
MB 720-135657/1-A	Method Blank	Total/NA	Solid	6010B	135657

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Client Sample ID: SS-11C (0-0.5)

Lab Sample ID: 720-49248-8

Date Collected: 04/19/13 09:28

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			135657	05/01/13 20:31	CDT	TAL PLS
Total/NA	Analysis	6010B		4	135711	05/02/13 13:24	CAM	TAL PLS

Client Sample ID: SS-8C (0-0.5)

Lab Sample ID: 720-49248-12

Date Collected: 04/19/13 09:57

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135699	05/02/13 12:08	DFR	TAL PLS
Total/NA	Analysis	8081A		10	135838	05/04/13 08:07	JZ	TAL PLS

Client Sample ID: SS-8E (0-0.5)

Lab Sample ID: 720-49248-15

Date Collected: 04/19/13 10:12

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135699	05/02/13 12:08	DFR	TAL PLS
Total/NA	Analysis	8081A		5	135838	05/04/13 09:44	JZ	TAL PLS
Total/NA	Prep	3546			135699	05/02/13 12:08	DFR	TAL PLS
Total/NA	Analysis	8081A		5	135838	05/04/13 09:44	JZ	TAL PLS

Client Sample ID: SS-4B (0-0.5)

Lab Sample ID: 720-49248-17

Date Collected: 04/19/13 10:37

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135699	05/02/13 12:08	DFR	TAL PLS
Total/NA	Analysis	8081A		5	135867	05/04/13 18:23	JZ	TAL PLS
Total/NA	Prep	3546			135699	05/02/13 12:08	DFR	TAL PLS
Total/NA	Analysis	8081A		5	135867	05/04/13 18:23	JZ	TAL PLS
Total/NA	Prep	3050B			135657	05/01/13 20:31	CDT	TAL PLS
Total/NA	Analysis	6010B		4	135711	05/02/13 13:29	CAM	TAL PLS

Client Sample ID: SS-24C (0-0.5)

Lab Sample ID: 720-49248-27

Date Collected: 04/19/13 11:40

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			135657	05/01/13 20:31	CDT	TAL PLS
Total/NA	Analysis	6010B		4	135711	05/02/13 13:33	CAM	TAL PLS

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Client Sample ID: SS-24B (0-0.5)
Date Collected: 04/19/13 11:38
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			135657	05/01/13 20:31	CDT	TAL PLS
Total/NA	Analysis	6010B		4	135711	05/02/13 13:37	CAM	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-49248-8	SS-11C (0-0.5)	Solid	04/19/13 09:28	04/19/13 15:06
720-49248-12	SS-8C (0-0.5)	Solid	04/19/13 09:57	04/19/13 15:06
720-49248-15	SS-8E (0-0.5)	Solid	04/19/13 10:12	04/19/13 15:06
720-49248-17	SS-4B (0-0.5)	Solid	04/19/13 10:37	04/19/13 15:06
720-49248-27	SS-24C (0-0.5)	Solid	04/19/13 11:40	04/19/13 15:06
720-49248-49	SS-24B (0-0.5)	Solid	04/19/13 11:38	04/19/13 15:06

Salimpour, Afsaneh 720-49248 Job #2

From: Randall R. Bleichner [rbleichner@cornerstoneearth.com]
Sent: Wednesday, May 01, 2013 10:05 AM
To: Salimpour, Afsaneh
Subject: RE: Files from 720-49248-1 Prospect Ave /Los Gatos

Hi Afsaneh,

We would like to request some additional analysis for the samples we have on hold.

Samples on hold:
#12 SS-8C (0-0.5) – Test for OCPs
#15 SS-8E (0-0.5) – OCPs
#27 SS-24C (0-0.5) – Test for Lead
#8 SS-11C (0-0.5) – Lead
#17 SS-4B (0-0.5) – OCPs, Lead

Additional testing: New #49
#26 For sample SS-24B (0-0.5) We would like you to homogenize the sample and retest it for lead. We got an anomalous hit on the lead and want to confirm that this result is indicative of the soil at this location.

Please run this on a 3-Day turn-around. RUSH

Thank you,

Randall.

From: Kurt M. Soenen
Sent: Tuesday, April 30, 2013 2:17 PM
To: Randall R. Bleichner
Subject: FW: Files from 720-49248-1 Prospect Ave /Los Gatos

Sincerely,

Kurt M. Soenen, P.E.
Principal Engineer

720-49248 Chain of Custody

CORNERSTONE EARTH GROUP

1259 Oakmead Parkway
Sunnyvale, California 94085
p 408-245-4600 x110
f 408-245-4620
c 408-605-3037
www.cornerstoneearth.com

From: Salimpour, Afsaneh [mailto:afsaneh.salimpour@testamericainc.com]
Sent: Tuesday, April 30, 2013 11:31 AM

To: Kurt M. Soenen
Subject: Files from 720-49248-1 Prospect Ave /Los Gatos

AFSANEH SALIMPOUR

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel. 925.484,1919
www.testamericainc.com

Reference: [128878]
Attachments: 2

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-49248-2

Login Number: 49248

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-49248-3
Client Project/Site: Prospect Ave /Los Gatos

For:
Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94085

Attn: Kurt Soenen

Authorized for release by:
5/9/2013 11:09:22 AM

Afsaneh Salimpour, Project Manager I
afsaneh.salimpour@testamericainc.com

Table of Contents

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

Job ID: 720-49248-3

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-49248-3

Comments
No additional comments.

Receipt
The samples were received on 4/19/2013 3:06 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 4.1° C.

Except:

Did not receive sample SS-21B (0-0.5). Logged on hold. Received 1 sample not listed on coc SB-26B (0-0.5). Logged on hold.

GC Semi VOA

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

Client Sample ID: SS-8F (0-0.5) — Lab Sample ID: 720-49248-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	180	H	9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDE	1200	H	9.9		ug/Kg	5		8081A	Total/NA
4,4'-DDD	210	H	9.9		ug/Kg	5		8081A	Total/NA

Client Sample ID: SS-24C (0-0.5) — Lab Sample ID: 720-49248-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		1.9		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

Client Sample ID: SS-8F (0-0.5)
Date Collected: 04/19/13 10:15
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-16
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Dieldrin	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Endrin aldehyde	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Endrin	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Endrin ketone	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Heptachlor	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Heptachlor epoxide	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
4,4'-DDT	**180**	**H**	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
4,4'-DDE	**1200**	**H**	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
4,4'-DDD	**210**	**H**	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Endosulfan I	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Endosulfan II	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
alpha-BHC	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
beta-BHC	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
gamma-BHC (Lindane)	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
delta-BHC	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Endosulfan sulfate	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Methoxychlor	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Toxaphene	ND	H	200		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
Chlordane (technical)	ND	H	200		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
alpha-Chlordane	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5
gamma-Chlordane	ND	H	9.9		ug/Kg		05/07/13 19:40	05/08/13 05:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*	*p*	*57 - 122*	*05/07/13 19:40*	*05/08/13 05:17*	*5*
DCB Decachlorobiphenyl	*73*	*p*	*21 - 136*	*05/07/13 19:40*	*05/08/13 05:17*	*5*

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

Client Sample ID: SS-24C (0-0.5)
Date Collected: 04/19/13 11:40
Date Received: 04/19/13 15:06

Lab Sample ID: 720-49248-27
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		1.9		mg/Kg		05/07/13 20:25	05/08/13 17:50	4

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-135955/1-A
Matrix: Solid
Analysis Batch: 136003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Dieldrin	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Endrin aldehyde	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Endrin	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Endrin ketone	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Heptachlor	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
4,4'-DDT	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
4,4'-DDE	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
4,4'-DDD	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Endosulfan I	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Endosulfan II	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
alpha-BHC	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
beta-BHC	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
delta-BHC	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Methoxychlor	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Toxaphene	ND		40		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
Chlordane (technical)	ND		40		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
alpha-Chlordane	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1
gamma-Chlordane	ND		2.0		ug/Kg		05/07/13 08:14	05/07/13 21:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*57 - 122*	*05/07/13 08:14*	*05/07/13 21:27*	*1*
DCB Decachlorobiphenyl	*100*		*21 - 136*	*05/07/13 08:14*	*05/07/13 21:27*	*1*

Lab Sample ID: LCS 720-135955/2-A
Matrix: Solid
Analysis Batch: 136003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135955

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.5	12.7		ug/Kg		77	65 - 120
Dieldrin	16.5	14.8		ug/Kg		90	72 - 120
Endrin aldehyde	16.5	14.8		ug/Kg		90	57 - 120
Endrin	16.5	14.8		ug/Kg		90	68 - 120
Endrin ketone	16.5	15.8		ug/Kg		96	67 - 120
Heptachlor	16.5	12.9		ug/Kg		78	69 - 120
Heptachlor epoxide	16.5	14.4		ug/Kg		87	68 - 120
4,4'-DDT	16.5	16.4		ug/Kg		100	51 - 120
4,4'-DDE	16.5	14.9		ug/Kg		90	70 - 120
4,4'-DDD	16.5	15.5		ug/Kg		94	69 - 120
Endosulfan I	16.5	14.3		ug/Kg		87	62 - 120
Endosulfan II	16.5	15.3		ug/Kg		92	65 - 120
alpha-BHC	16.5	12.9		ug/Kg		78	70 - 120
beta-BHC	16.5	15.0		ug/Kg		91	81 - 120
gamma-BHC (Lindane)	16.5	13.3		ug/Kg		81	72 - 120
delta-BHC	16.5	14.8		ug/Kg		90	74 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-135955/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136003 — **Prep Batch: 135955**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endosulfan sulfate			16.5	15.9		ug/Kg		96	67 - 120		
Methoxychlor			16.5	16.9		ug/Kg		102	61 - 142		
alpha-Chlordane			16.5	14.4		ug/Kg		87	70 - 120		
gamma-Chlordane			16.5	14.4		ug/Kg		87	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*82*		*57 - 122*
DCB Decachlorobiphenyl	*121*		*21 - 136*

Lab Sample ID: LCSD 720-135955/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136003 — **Prep Batch: 135955**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.6	13.1		ug/Kg		79	65 - 120	3	20
Dieldrin			16.6	15.2		ug/Kg		92	72 - 120	2	20
Endrin aldehyde			16.6	15.1		ug/Kg		91	57 - 120	2	20
Endrin			16.6	15.1		ug/Kg		91	68 - 120	2	20
Endrin ketone			16.6	15.5		ug/Kg		94	67 - 120	2	20
Heptachlor			16.6	13.3		ug/Kg		80	69 - 120	3	20
Heptachlor epoxide			16.6	14.8		ug/Kg		89	68 - 120	3	20
4,4'-DDT			16.6	16.8		ug/Kg		102	51 - 120	2	20
4,4'-DDE			16.6	15.4		ug/Kg		93	70 - 120	4	20
4,4'-DDD			16.6	15.8		ug/Kg		95	69 - 120	2	20
Endosulfan I			16.6	14.7		ug/Kg		88	62 - 120	3	20
Endosulfan II			16.6	15.6		ug/Kg		94	65 - 120	2	35
alpha-BHC			16.6	13.1		ug/Kg		79	70 - 120	2	20
beta-BHC			16.6	15.4		ug/Kg		93	81 - 120	3	20
gamma-BHC (Lindane)			16.6	13.7		ug/Kg		82	72 - 120	2	20
delta-BHC			16.6	15.2		ug/Kg		92	74 - 120	3	20
Endosulfan sulfate			16.6	15.9		ug/Kg		96	67 - 120	0	20
Methoxychlor			16.6	16.5		ug/Kg		100	61 - 142	2	20
alpha-Chlordane			16.6	15.0		ug/Kg		91	70 - 120	4	20
gamma-Chlordane			16.6	15.0		ug/Kg		91	68 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*57 - 122*
DCB Decachlorobiphenyl	*99*		*21 - 136*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-136034/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 136107 — **Prep Batch: 136034**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		05/07/13 20:25	05/08/13 16:26	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-136034/2-A
Matrix: Solid
Analysis Batch: 136107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136034

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			50.0	51.2		mg/Kg		102	80 - 120		

Lab Sample ID: LCSD 720-136034/3-A
Matrix: Solid
Analysis Batch: 136107

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 136034

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			50.0	51.6		mg/Kg		103	80 - 120	1	20

QC Association Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

GC Semi VOA

Prep Batch: 135955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-16	SS-8F (0-0.5)	Total/NA	Solid	3546	
LCS 720-135955/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-135955/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-135955/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-16	SS-8F (0-0.5)	Total/NA	Solid	8081A	135955
LCS 720-135955/2-A	Lab Control Sample	Total/NA	Solid	8081A	135955
LCSD 720-135955/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	135955
MB 720-135955/1-A	Method Blank	Total/NA	Solid	8081A	135955

Metals

Prep Batch: 136034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-27	SS-24C (0-0.5)	Total/NA	Solid	3050B	
LCS 720-136034/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-136034/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-136034/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 136107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-49248-27	SS-24C (0-0.5)	Total/NA	Solid	6010B	136034
LCS 720-136034/2-A	Lab Control Sample	Total/NA	Solid	6010B	136034
LCSD 720-136034/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	136034
MB 720-136034/1-A	Method Blank	Total/NA	Solid	6010B	136034

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

Client Sample ID: SS-8F (0-0.5)

Lab Sample ID: 720-49248-16

Date Collected: 04/19/13 10:15

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135955	05/07/13 19:40	AM	TAL PLS
Total/NA	Analysis	8081A		5	136003	05/08/13 05:17	JZ	TAL PLS
Total/NA	Prep	3546			135955	05/07/13 19:40	AM	TAL PLS
Total/NA	Analysis	8081A		5	136003	05/08/13 05:17	JZ	TAL PLS

Client Sample ID: SS-24C (0-0.5)

Lab Sample ID: 720-49248-27

Date Collected: 04/19/13 11:40

Matrix: Solid

Date Received: 04/19/13 15:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			136034	05/07/13 20:25	ASB	TAL PLS
Total/NA	Analysis	6010B		4	136107	05/08/13 17:50	SK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Cornerstone Earth Group
Project/Site: Prospect Ave /Los Gatos

TestAmerica Job ID: 720-49248-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-49248-16	SS-8F (0-0.5)	Solid	04/19/13 10:15	04/19/13 15:06
720-49248-27	SS-24C (0-0.5)	Solid	04/19/13 11:40	04/19/13 15:06

Salimpour, Afsaneh 720-49248-3

From: Randall R. Bleichner [rbleichner@cornerstoneearth.com]
Sent: Tuesday, May 07, 2013 8:55 AM
To: Salimpour, Afsaneh
Subject: RE: Files from 720-49248-2 Prospect Ave /Los Gatos

Afsaneh,

Please analyze sample SS-8F (0-0.5) for OCPs and homogenize and reanalyze sample SS-24C for lead. 24 hour turn around please.

Thank you,

Randall.

From: Salimpour, Afsaneh [mailto:afsaneh.salimpour@testamericainc.com]
Sent: Monday, May 06, 2013 4:56 PM
To: Kurt M. Soenen; Noah D. Hornsby
Subject: Files from 720-49248-2 Prospect Ave /Los Gatos

AFSANEH SALIMPOUR

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484,1919
www.testamericainc.com

RUSH

Reference: [129341]
Attachments: 2

720-49248 Chain of Custody

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-49248-3

Login Number: 49248

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	