FINAL

INITIAL STUDY & MITIGATED NEGATIVE DECLARATION

ASHLAND FAMILY HOUSING

COUNTY OF ALAMEDA

PREPARED BY:

AEM CONSULTING
310 PACIFIC HEIGHTS DRIVE
SANTA ROSA, CA 95403

FINAL, JANUARY 2013

TABLE OF CONTENTS

Chapter 1 – Executive Summary 12
Purpose of the Document 12
Project Description - Summary 12
Impacts and Mitigation Measures 12
Chapter 2 – Introduction 21
CEQA 21
Alameda County's Role under CEQA 21
Chapter 3 – Project Description 23
Project Location and Existing Site Conditions 23
Site Conditions 23
Current General Plan and Zoning Designations 23
Existing Land Uses 24
Surrounding Land Uses 24
Proposed Project 24
Green features 24
Amenities 25
Proximity 25
Project Objectives 25
Project Characteristics 25
Planning and Zoning Consistency 26
General Plan 26
Zoning 26
Requested Actions and Required Approvals 27
Alameda County Approvals 27

Project Location 29

Project Location (Continued) 30

Project Location (Continued) 31

Chapter 4 – Initial Study Checklist 36

I. AESTHETICS 36

Setting 36

Impacts 37

Shadows 38

Mitigations 39

II. AGRICULTURE AND FORESTRY RESOURCES 40

Setting 40

Impacts 40

III. AIR QUALITY 41

Setting 41

Regulatory Setting 41

Area of Influence 43

BAAQMD Significance Thresholds 43

Impacts 44

Roadway Sources – Thresholds of Significance 45

Stationary Sources – Thresholds of Significance 46

Cumulative Air Contaminant Exposure 47

Emissions Due to Construction Activity 48

Carbon Monoxide Hotspots 48

Demolition 48

Conclusions 49

Toxic Air Contaminates (TAC) 49

Operational Criteria Air Pollutant and Precursor Emissions Analysis 49
Construction Emissions 49
Carbon Monoxide Hotspots 50
Mitigations 50
IV. BIOLOGICAL RESOURCES 51
Setting 51
Study Area 51
Regulations 52
Impacts 52
Summary of Conclusions 54
Mitigations 54
V. CULTURAL RESOURCES 56
Setting 56
Introduction 56
HISTORIC CONTEXT AND SETTING 57
Northwest Information Center 60
Native American Consultation 60
Impacts 60
Mitigations 61
Cultural Resources 61
VI. GEOLOGY AND SOILS 63
Setting 63
Geotechnical Conditions 64
Impacts 64
Conclusions and Discussion 64
Recommendations 66

Mitigations..... 66

Soils and Geotechnical..... 66

VII. GREENHOUSE GAS EMISSIONS..... 68

Setting..... 68

Impacts..... 68

Thresholds of Significance..... 68

VIII. HAZARDS AND HAZARDOUS MATERIALS..... 70

Setting..... 70

Impacts..... 71

Asbestos and Lead-based paint survey..... 74

Mitigations..... 76

IX. HYDROLOGY AND WATER QUALITY..... 78

Setting..... 78

Water Supply..... 78

Impacts..... 79

Mitigations..... 81

X. LAND USE AND PLANNING..... 83

Setting..... 83

General Plan..... 84

Zoning..... 85

Impacts..... 88

XI. MINERAL RESOURCES..... 92

Setting..... 92

Impacts..... 92

XII. NOISE..... 93

Setting..... 93

Existing Noise Environment 93
Regulatory Setting 94
Impacts 94
Recommendations 95
Contribution to Community Noise Levels 95
Conclusion 96
Mitigations 97
Noise 97
XIII. POPULATION AND HOUSING 98
Setting 98
Impacts 98
Mitigations 99
XIV. PUBLIC SERVICES 100
XV. RECREATION 103
XVI. TRANSPORTATION 104
Setting 104
Planned Land Use 104
Planned Housing 105
Planned Transportation 105
Impacts 106
Significance Criteria 107
Existing Conditions 109
Existing plus project conditions 112
Cumulative (Year 2035) Plus Project Conditions Impact Analysis 114
XVII. UTILITIES AND SERVICE SYSTEMS 117
XVIII. MANDATORY FINDINGS OF SIGNIFICANCE 120

Chapter 5 – Preparer & References 122

Source Documentation: 122

Figures

Figure 1 Rendered Perspectives 32

Figure 2 Architectural Site Plan 33

Figure 3 Building "A" Northeast Elevation along E. 14th Street 34

Figure 4 Building "A" Elevations from Kent Avenue *** Note: Colors may change* 34

Figure 5 Building "B" Elevations (North) 35

Figure 6 Building "D" Elevations (South) 35

Figure 7 Fire Access Plan 116

Tables

Table 1 Summary project Impacts and Mitigation Measures 12

Table 2 Subject Parcel Information 30

Table 3 BAAQMD Thresholds of Significance 44

Table 4 Summary of Annual PM2.5 Concentrations 45

Table 5 Thresholds of Significance – Roadways – Cancer and Non-Cancer (Chronic and Acute) Hazard Indices 46

Table 6 Thresholds of Significance – Stationary Sources – Cancer and Non-Cancer (Chronic and Acute) Hazard Indices 47

Table 7 Cumulative Thresholds of Significance - Cumulative Air Contaminant Exposure – All Sources 47

Table 8 Greenhouse Gases Analysis 69

Table 9 Existing Conditions - Intersection Levels of Service 109

Table 10 Existing Conditions - Roadway Segment Levels of Service 110

Table 11 Existing Plus Project Conditions - Intersection Levels of Service 113

Table 12 Existing Conditions - Roadway Segment Levels of Service 114

Appendices

Appendix A – Air Quality

Appendix B – Biological Resources

Appendix C – Cultural Resources

Appendix D – Geology and Soils

Appendix E – Hazards and Hazardous Materials

Appendix F – Noise

Appendix G – Transportation and Circulation

Appendix H – Project Description

ALAMEDA COUNTY COMMUNITY DEVELOPMENT AGENCY
PLANNING DEPARTMENT

Chris Bazar
Agency Director

Albert Lopez
Planning Director

224
West Winton Ave.
Room 111

Hayward
California
94544

phone
510.670.5400
fax
510.785.8793

www.acgov.org/cda

Environmental Checklist Form

Prepared Pursuant to the California Environmental Quality Act (CEQA)

Project Title:

Ashland Family Housing

CEQA Lead Agency:

Alameda County Community Development Agency
Planning Department
399 Elmhurst Street, Suite 141
Hayward, CA 94544-1307

Contact: Rodrigo Orduña, Senior Planner
(510) 670-6503, rodrigo.orduna@acgov.org

Project Location:

16309-16331 Kent Avenue
San Lorenzo, CA 94580
(APNs: 080C-0479-023-02, 080C-0479-023-01, 080C-0479-022 and 080C-0479-021)

Project Sponsor:

Resources for Community Development
2220 Oxford Street
Berkeley, CA 94704

Contact: Alicia Klein, Senior Project Manager
(510) 841-4410 x336

General Plan Designation and Zoning:

GP: *Eden Area General Plan* land use designation of High Density Residential (between 43 to 86 dwelling units per acre density) with General Commercial allowed as a secondary use.

Zoning: *Ashland Cherryland Business District Specific Plan (ACBDSP),* Transit Access (TA) land use district and R-1 (Single-Family Residence) zoning district.

Description of the Project:

The project envisions demolition of existing structures and new construction of 85 affordable rental apartments for emancipated foster youth, individuals, and families who earn income of 30% to 50% of Area Median Income (AMI). In keeping with the renaissance of the Ashland and Cherryland Business Districts Specific Plan, commercial space will be placed along the East 14th Street frontage. In addition to the mixed-uses stated here, a community room, classrooms, computer room, office and garden community room will be constructed. A total of 99 parking spaces will be provided onsite. Each unit will receive one free transit pass for at least 40 years or for the life of the project.

Surrounding Land Uses:

The 2.21 acre site is an assemblage of four flat lots at the southwest corner of Kent Avenue and East 14th Street. It currently includes a mobile home park, three single family residences, and various outbuildings including an old barn. The site will add a portion of the right-of-way (if it is abandoned by the County) at the intersection of Kent Avenue and East 14th Street for use by the project. The site currently has only 5.62 feet of frontage along East 14th Street and nearly its entire frontage along Kent Avenue, but with the abandoned corner to be used by the project, would result in approximately 120 feet of frontage along East 14th Street, and the same frontage along Kent Avenue.

The site is located in the Ashland area of unincorporated Alameda County, adjacent to Edendale Park, Edendale Middle School, Hayward Area Recreation District Jack Holland Park, and the Alameda County Ashland Youth Center, currently under construction. There is a small grocery store located southeast of the site, and a single-family residential neighborhood located south of the site along Kent Avenue. A multi-family housing complex is located south of the small grocery store. A mix of commercial businesses is located along East 14th Street northwest and southeast of the site. There are several AC Transit bus lines along East 14th Street in front of the property, and Bay Fair BART station and Bayfair shopping mall located to the northwest.

Discretionary Actions for which this Initial Study may be applied without limitation:

- Rezoning to a Planned Development Zoning District
- Boundary Adjustment
- Demolition Permits
- Grading Permits
- Building Permits
- Fire Clearance
- Encroachment
- Storm Water Permit
- Caltrans Intersection Realignment Approval
- Utility Services Realignment Approval
- California State Water Resources Control Board Construction General Permit

Other Agency Permits or Discretionary Actions:

None

Environmental Factors Potentially Affected:

Environmental factors which may be affected by the project are listed alphabetically below. Marked factors (indicated by a "☑") were determined to be fully mitigated through the implementation of mitigation measures adopted as conditions of approval adopted by Alameda County and would be applicable to the project if approved, and will not be further studied in a subsequent EIR.

☑ Aesthetics	☑ Hazards and Hazardous Materials	☑ Population and Housing
+ Agriculture Resources	☑ Hydrology and Water Quality	+ Public Services
☑ Air Quality	+ Land Use and Planning	+ Recreation
☑ Biological Resources	+ Mineral Resources	+ Transportation and Circulation
☑ Cultural Resources	☑ Noise	+ Utilities and Service Systems
☑ Geology and Soils		

LEAD AGENCY DETERMINATION

On the basis of this initial evaluation:

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by, or will be agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

Rodrigo Orduña, Senior Planner — Date 01/29/13
Alameda County Community Development Agency

Chapter 1 – Executive Summary

Purpose of the Document

This CEQA Initial Study has been completed to meet applicable requirements of the California Environmental Quality Act (CEQA).

Project Description - Summary

The project envisions demolition of existing structures and new construction of 85 affordable rental apartments for emancipated foster youth, individuals, and families who earn income of 30% to 50% of Area Median Income (AMI). In keeping with the renaissance of the Ashland and Cherryland Business Districts Specific Plan, commercial space will be placed along the East 14th Street frontage. In addition to the mixed-uses stated here, a community room, classrooms, computer room, office and garden community room will be constructed. A total of 99 parking spaces will be provided onsite. Each unit will receive one free transit pass for at least 40 years or for the life of the project. The project is further described in Chapter 3.

Impacts and Mitigation Measures

The analysis in Chapters 4 and 5 of this document provides a description of the existing setting, potential impacts of project implementation, and recommended mitigations measures to reduce or avoid potentially significant that could occur as a result of project implementation. Additionally, the project is also subject to Alameda County Standard Conditions of Approval. Table 1 below lists a summary statement of each impact and corresponding mitigation measures, as well as the level of significance after mitigation.

Table 1 Summary project Impacts and Mitigation Measures

Potential Environmental Impacts	Mitigation Measures	Resulting Level of Significance
Aesthetics		
These conditions ensure that the visual character conforms to designs in area plans that apply to this project.	A1. The applicant shall obtain approval from Pacific Gas & Electric (PG&E), East Bay Municipal Utility District (EBMUD), Oro Loma, Comcast, American Telephone & Telegraph (AT&T), and others which own utility facilities presently existing in the present road configuration of Kent Avenue to a relocate (which may include undergrounding of overhead lines) of their respective utility facilities to a new configuration of Kent Avenue that is acceptable to the Alameda County Public Works Agency (ACPWA). A2. The applicant shall, at its sole expense, provide all the road improvement based on a design reviewed and approved, as well as completed construction work, acceptable to both California Department of Transportation (Caltrans) and ACPWA. A3. The applicant shall redesign the Kent Avenue and Southeast bound East 14th Street signal so that they are acceptable to both Caltrans and ACPWA. A4. The applicant shall realign Kent Avenue to adequately interface and/or	***Less than significant***

Potential Environmental Impacts	Mitigation Measures	Resulting Level of Significance
	be compatible with the overall Caltrans East 14th Street "Streetscape" plan. A5. The applicant shall design the frontage of the proposed project appropriately in accordance with the East 14th Street Master Plan by Caltrans. Applicant is required to obtain Caltrans and ACPWA approval of the building location behind the new intersection. A6. The applicant shall complete frontage improvements consistent with the Master Plan. A7. The applicant shall provide all property dedications to the County in a form and a manner acceptable to the Real Estate Division, Public Works Agency. A8. The applicant shall acquire an encroachment permit from Alameda County and/or Caltrans, as appropriate, for all work within the roadway right-of-way. A9. The applicant is required to submit a lighting plan that includes mitigation measures to ensure light and glare impacts are less than significant. A10. All exterior lights on the property shall be privately owned and maintained by the applicant or property owner. A11. All streetlights on public streets installed by the applicant shall meet County standards and shall be owned and maintained by the County. These lights shall be energized at the PG&E LS-2 rate schedule. A12. The applicant shall install streetlights at locations shown on plans approved by the County in accordance with the Streetlight Design Guidelines and Specifications. Streetlight plans shall include electrolier and foundation details, trench detail, and a circuitry plan that includes pole identification numbers, PG&E service points, underground conduit size, wires, alignment, and pull box locations.	
Air Quality		
During construction, temporary construction dust will be generated. The Best Management Practices for Air Quality impacts should be ongoing throughout site preparation and construction.	AQ1. Water all active construction areas as needed to minimize dust; AQ2. Cover all trucks hauling soil, sand, and other loose materials; AQ3. Apply water as needed, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at the construction site; AQ4. Sweep daily (using water sweepers, as necessary) all paved access roads, parking areas and staging areas at construction site as directed by the County Engineer; and AQ5. Sweep streets as necessary (with water sweepers) if visible soil material is carried onto adjacent public streets, as directed by County Engineer.	***Less than significant***
Biological Resources		
These conditions ensure that any nesting or migratory birds are not impact-	BR1. Non-breeding season (Approximately September 1 to January 31): WRA recommends that initial vegetation removal, clearing and grubbing be initiated in the nonbreeding season, defined as September 1 to January 31. During this period breeding is not occurring and surveys are not re-	***Less than significant***

Potential Environmental Impacts	Mitigation Measures	Resulting Level of Significance
ed by the project.	quired. However, if nesting birds are encountered during work activities in the non-breeding season, disturbance activities within a minimum of 50 feet of the nest should be postponed until the nest is abandoned or young birds have fledged. BR2. Breeding season (Approximately February 1 to August 31): Between February 1 and August 31, it is recommended that pre-construction breeding bird surveys be conducted by a qualified biologist prior to and within 10 days of any initial ground disturbance activities. Surveys should be conducted within all suitable nesting habitat within 250 feet of the grading activity when feasible. Active nests of Migratory Bird Treaty Act (MBTA) species identified at that time should be protected by a 50-foot radius exclusion zone. Active raptor or special-status species' nests should be protected by a buffer with a radius of 200 feet. California Department of Fish and Game[1] (CDFG) recommends a minimum 500 foot exclusion buffer be established around active white-tailed kite nests. Survey results are valid for 14 days from the survey date. Should ground disturbance commence later than 14 days from the survey date, surveys should be repeated. If no breeding birds are encountered then work may commence as planned. Exclusion zone sizes may vary depending on habitat characteristics and species, and are generally larger for raptors and colonial nesting birds. Each exclusion zone would remain in place until the nest is abandoned or all young have fledged. The assessment also determined that one special status bat species could potentially use the structures within the Study Area as roosting habitat. Additionally, California Fish and Game Code protects non-special-status roosting bats. The removal or demolition of on-site structures could potentially affect roosting bats. WRA prescribes the following measures to avoid impacts to roosting bats. BR3. Non-roosting Season (Approximately September 1 to October 31): WRA recommends that any initial demolition and removal of on-site structures be conducted during the non-roosting season. During this period, no preconstruction emergence surveys are required. If evidence of roosting is observed during work activities, consultation with a qualified bat biologist to determine an appropriate exclusion buffer is recommended. BR4. Hibernation Season (Approximately November 1 to March 31): WRA recommends internal searches of all structures slated for removal or demolition to determine presence/absence of bat hibernation roosts. All active roosts identified during surveys should be protected by a buffer to be determined by a qualified bat biologist. The buffer will be determined by the type of bat observed, sensitivity of roost, type of potential dis-	

[1] *Effective January 1, 2013, AB 2402 signed by Governor Jerry Brown changes the name of the California Department of Fish and Game to California Department of Fish and Wildlife.*

Potential Environmental Impacts	Mitigation Measures	Resulting Level of Significance
	turbance, etc. Each exclusion zone would remain in place until the end of the hibernation season or until the bats leave on their own accord. If no active roosts are identified then work may commence as planned. Survey results are valid for 30 days from the survey date. Should work commence later than 30 days from the survey date, surveys should be repeated. BR5. Maternity Roosting Season (Approximately April 1 to August 31): WRA recommends night-time evening emergence surveys and/or internal searches of all structures slated for removal or demolition to determine presence/absence of bat maternity roosts. All active roosts identified during surveys should be protected by a buffer to be determined by a qualified biologist. The buffer will be determined by the type of bat observed, sensitivity of roost, type of potential disturbance, etc. Each exclusion zone would remain in place until the end of the maternity roosting season. If no active roosts are identified then work may commence as planned. Survey results are valid for 30 days from the survey date. Should work commence later than 30 days from the survey date, surveys should be repeated. BR6. Consultation with CDFG may be warranted to determine appropriate mitigation measures if roosts are disturbed or destroyed.	
Cultural Resources		
These conditions outline procedures to be followed during demolition and in the event of accidental discovery of archeological resources, paleontological resources or human remains during construction.	*Demolition* HR1. Timbers and wood from the barn shall be salvaged and either sold on the private market or made available for re-use through non-profit organizations such as StopWaste.org at the request of the Parks, Recreation and Historic Commission. *Cultural Resource Protection Procedures.* The Applicant or the contractor shall provide for grading and trenching crews to implement the following procedures: CR1. Immediately halt or relocate excavations and contact a qualified archaeologist to inspect the site. If the archaeologist determines that potentially significant archaeological materials or human remains are encountered, the archaeologist must record, recover, retrieve, and/or remove any archaeological materials; CR2. The archaeologist must study any archaeological resources found onsite and publish data concerning these resources; CR3. If human remains are found on the site, Applicant must notify the Ohlone Most Likely Descendants, as designated by the California Native American Heritage Commission; the coroner shall be called and the archaeologist shall provide safe and secure storage of these remains while on-site, in the laboratory and otherwise, and shall consult with the Native American representatives regarding either onsite reburial of the remains or other arrangements for their disposition; CR4. The archaeologist shall provide a copy of documentation of all recov-	***Less than significant***

Potential Environmental Impacts	Mitigation Measures	Resulting Level of Significance
	ered data and materials found onsite to the regional information center of the California Archaeological Inventory (CAl) for inclusion in the permanent archives, and another copy shall accompany any recorded archaeological materials and data. CR5. If any historic artifacts are exposed, the archaeologist shall record the data and prepare a report to be submitted to the local historical society. CR6. Monitoring for these measures must be performed by Applicant on a continual basis during construction. At the completion of work, Applicant will submit a summary of findings to the Planning Director for review and for the final record.	
Geology and Soils		
These conditions relate to soil suitability of the undeveloped parcel.	G1. The geotechnical report including the liquefaction hazard assessment must be reviewed and approved by the County of Alameda prior to issuance of a building permit in conformance with the provisions of the Seismic Hazard Zones Mapping Act and the Special Publication 117A "Guidelines for evaluating and mitigating seismic hazards in California". G2. The results of the Geotechnical Study performed by Jensen-Van Lienden Associates, Inc. and dated May 18, 2012, indicate that the sandy soils encountered in several test borings are potentially liquefiable. A review of the Geotechnical Study was done by Kleinfelder on November 27, 2012 at the request of ACPWA (Project No. 130859). Kleinfelder stated that the report does not adequately address the liquefaction hazard in this area: "In order to address the liquefaction hazard at the site, additional information on ground motions, additional laboratory tests, and details of liquefaction analysis are needed. Further discussions on expansion potential of near surface soils are also needed." Project geotechnical engineer should adequately address comments provided in the Kleinfelder letter and provide to ACPWA for review and approval.	***Less than significant***
Hazards & Hazardous Materials		
These conditions concern demolition precautions for items found at the site that warrant further investigation at that time.	HZ1. Follow all recommendations outlined in the Phase I Environmental Site Assessment report prepared for the Ashland Housing Project in May 2011 by RGA Environmental. HZ2. Follow all recommendations outlined in the Phase I Environmental Site Assessment report prepared for the project in May 2012 by Belinda P. Blackie, P.E., R.E.A. HZ3. Follow the recommendations by RGA outlined in HZ4 through HZ13 for planned site development which may disturb ACM, LBP, LCP, lead in soil, and/or a variety of other potentially hazardous materials which were observed at the subject site. HZ4. The site owner should provide notification to employees, contractors, subcontractors, and tenants of the site structures as to the presence, location, and quantity of ACM, LBP, and lead in soil at the site within 15 days of receiving this information. HZ5. Prior to renovation or demolition of the 16 mobile homes and associated structures (including inaccessible bath structures) not included in this	***Less than significant***

Potential Environmental Impacts	Mitigation Measures	Resulting Level of Significance
	survey, the site owner should engage the services of a Cal-OSHA certified asbestos consultant to conduct appropriate asbestos survey/s in compliance with applicable regulations. HZ6. All ACM present in site structures should be removed prior to disturbance by construction activities by a properly licensed asbestos abatement contractor employing only properly trained and currently certified asbestos personnel who apply appropriate work practices in accordance with current local, State, and Federal asbestos regulations. HZ7. Prior to future work at the site that may disturb asbestos in "any amount", Cal-OSHA requires advanced written notification from the subject contractor of their "Intent to Conduct Asbestos Related Work." HZ8. A 10 working day advance written notification and payment of appropriate fees are required by the Bay Area Air Quality Management District (BAAQMD) for every demolition project within their jurisdiction, even when no ACM is present, and for each renovation project where the amount of friable ACM is equal to or greater than 160 lineal feet or 260 square feet. HZ9. Contractors disturbing lead-based and lead-containing paint should implement appropriate lead related work practices in accordance with applicable Cal-OSHA worker exposure regulations to include, at a minimum of lead awareness training for all site workers and provision of hand-washing stations at the work site. HZ10. Contractors disturbing lead-based paint on building components must do so in compliance with applicable regulations of California Department of Occupational Safety and Health, including the submission of an advance notification to the local Cal-OSHA office of their "Intent to Conduct Lead- Related Construction Activity." HZ11. The approximately 600 square feet (to a depth of no less than 3-inches) of lead-impacted soil present at the drip-line of the 16309 Kent Avenue Barn and in the flower bed (garden) of the 16333 Kent Avenue residence should be removed from the site by a properly licensed contractor and disposed of at an appropriate landfill in accordance with applicable regulations. Remaining soil should be capped with grass, asphalt, or concrete to minimize contact by children. HZ12. The fluorescent lights tubes, fluorescent light ballasts, and refrigeration units commonly contain small amounts of mercury, PCBs, and refrigerants. The contractor for the project should be advised to properly recycle/dispose of these items prior to building demolition and in accordance with applicable regulations. A California licensed hazardous waste hauler should transport these items from the site to an appropriate landfill. HZ13. It is the client's responsibility to assess the potential risk of each reported site condition and balance their desired end result with the projected cost of implementing some or all of RGA's recommendations. RGA is available to assist the client in securing their desired end result by insuring that all recommend work is done in accordance with current regulations and guidelines.	

Potential Environmental Impacts	Mitigation Measures	Resulting Level of Significance
Hydrology and Water Quality		
These conditions are to prevent storm water pollution during and after construction as well as proper site drainage.	Hydrology H1. Approval of the project is conditional upon Caltrans formal acceptance of ownership and maintenance responsibility (not merely acknowledgement of Caltrans issuance of permit) of the proposed storm drainage line within the East 14th Street's road right-of-way. The development of the site must fully comply with Provision C.3 of the Municipal Regional Stormwater Permit by integrating in the on-site storm drainage design post-construction storm water measures. H2. The project will be required to implement Hydrograph Modification Management (HM). With HM, the project therefore must include in the design of its storm drainage system detention measures, using the Bay Area Hydrologic Model (BAHM) program that must be sized to control the flow and duration of the storm water runoff. H3. Any storm drain line proposed to be constructed within the Kent Avenue road right-of-way will have to be designed and constructed based on the County of Alameda guidelines. However, the storm drain line constructed will not be considered as "an extension" of the District's Zone 2, Line C-2 flood control facility. H4. The development of the site is not to augment storm runoff to the existing District's Zone 2 Line C storm drain facility downstream, located northwesterly of the project site, which cannot accommodate additional runoff that was not accounted for in its original design. A modified runoff coefficient factor, C' of 0.62 had been assigned to this site in the District's hydrology calculations prepared for the sizing of the existing storm drainage system along East 14th Street. If the proposed development warrants a higher runoff coefficient than the original C' value of 0.62, mitigation measures with adequate outlet and/or metering works will need to be included and implemented by the project developer in the design of the on-site storm drainage facility. H5. The design of mitigation measure will have to be reviewed and approved by Alameda County Public Works Agency (ACPWA) and any connection of the proposed on-site storm drain system to the District's flood control facility will be subject to a District flood encroachment permit Pre-Construction . H6. All roadway and storm drain facilities are to conform to Alameda County's Subdivision Design Guidelines and Hydrology and Hydraulics Criteria Summary. All work must be in compliance with Alameda County ordinances, guidelines, and permit requirements. Water Quality WQ1. It is the responsibility of the applicant to comply with Federal, State, and local water quality standards and regulations including the California Regional Quality Control Board, San Francisco Bay Region, Municipal Regional Stormwater National Pollutant Discharge Elimination System	***Less than significant***

Potential Environmental Impacts	Mitigation Measures	Resulting Level of Significance
	(NPDES) Permit, adopted 2009 and 2011. WQ2. The applicant must submit Notice of Intent (NOI) to submit a Storm Water Pollution Prevention Plan (SWPPP) to the project engineer and the Grading Division prior to issuance of a grading permit and prior to any land disturbance of on the site.	
Land Use and Planning		
This condition is for land use and planning.	LP1. Prior to issuance of Demolition, Grading, Site, Encroachment, or Building Permits, the project sponsor shall provide for approval by the Planning Director, landscaping plans showing permanent sitting furniture, irrigated landscaping, and partial sun shading devices, at the plaza area at the project frontage to East 14th Street and Kent Avenue. Prior to issuance of Final Occupancy, the project proponent shall install public amenity improvements to the plaza area at the project frontage to East 14th Street and Kent Avenue that includes permanent sitting furniture, irrigated landscaping, and partial sun shading devices to the satisfaction of the Planning Director. Prior to issuance of Final Occupancy, a public access easement shall be recorded with the deed to the property, and evidence of such submitted for approval by the Planning Director, allowing perpetual, public pedestrian access to this plaza area, and requiring maintenance of the plaza and amenities for the life of the project.	***Less than significant***
Noise		
These conditions are to minimize noise disturbance to residents during construction and to meet acceptable interior noise levels.	N1. Follow all recommendations for sound class ratings for building materials as found in Figure 2 and 3 of the Environmental Noise Study performed for the project by Charles M. Salter Associates, Inc. and dated October 16, 2012. N2. Follow Conditions of Approval labeled N3 through N6 to manage temporary noise during demolition and construction of the project. N3. Construction activity shall be limited to the hours of 7 AM to 6 PM, Monday through Saturday. No construction is allowed on Sundays and federal holidays. N4. All construction vehicles and equipment shall be fitted with working mufflers. N5. Machinery, including motors, shall be turned off when not in use. N6. A "disturbance coordinator" shall be designated who will be responsible for responding to any local complaints regarding construction noise. The coordinator (who may be a member of City staff or employee of the general contractor) will determine the cause of the complaint and require that reasonable measures warranted to correct the problem be implemented. A telephone number of the noise disturbance coordinator shall be conspicuously posted at the construction site fence and on the notification sent to neighbors adjacent to the site.	***Less than significant***

Potential Environmental Impacts	Mitigation Measures	Resulting Level of Significance
Population and Housing		
The project will involve relocation of residents.	P1. The project will involve relocation of residents. The project will be subject to the Uniform Relocation Act (46 U.S.C. § 4600 et seq.), passed by Congress in 1970, its implementing regulations (49 C.F.R.) Part 24); the California Relocation Assistance Law, California Government Code Section 7260 et seq (the "CRAL") and the California Relocation Assistance and Real Property Acquisition Guidelines, Title 25, California Code of Regulations, Chapter 6, Section 6000 et seq. (jointly the "Rules and Regulations"). A conforming relocation plan has been developed and is being implemented.	***Less than significant***

Project proponent, applicant, or subsequent agrees to comply and implement all mitigation measures during the time indicated hereinabove, which, should this project be approved, will be included as conditions of approval for this project. Additional conditions of approval may be added, should this project be approved, and shall have the same force and effect as these mitigation measures.

Alicia F. Klein — 12/7/2012

Signature project proponent / applicant, or subsequent — Date

Alicia F. Klein — Resources for Community Development

Printed name of project proponent / applicant, or subsequent — Affiliation

Chapter 2 – Introduction

This document is a Mitigated Negative Declaration (MND) with an Initial Study, intended to meet the requirements of the California Environmental Quality Act (CEQA). The purpose of the MND is to assess the potential environmental effects of implementing the Ashland Family Housing project (proposed action/proposed project) and to determine if approval of the requested discretionary actions and subsequent development would have a substantial adverse effect on the environment. The action is proposed by Alameda County as the lead agency under CEQA. In accordance with CEQA, this draft MND is subject to a 30-day public review period.

CEQA

The CEQA process, established by state law, requires the review of proposed projects in order to identify and address potential environmental effects. A public agency must comply with CEQA when it undertakes an activity defined as a "project." In accordance with CEQA, a project is an activity undertaken by a public agency or a private activity which must receive some discretionary approval (whereby the agency has the authority to deny the requested permit or approval) from a government agency which may cause either a direct physical change in the environment or a reasonably foreseeable indirect change in the environment. Once a public project or a project requiring discretionary approval is identified, a determination must be made regarding whether the project is exempt from CEQA.

Projects which are not exempt from CEQA require a Negative Declaration, a Mitigated Negative Declaration, or an Environmental Impact Report (EIR). When a project does not result in any significant environmental effects, or project modification and/or mitigation measures reduce these impacts to a less-than-significant level, a Negative Declaration or a Mitigated Negative Declaration is prepared. An EIR must be prepared if a project may have one or more potentially significant environmental effects that cannot be mitigated to a less-than-significant level. The appropriate level of environmental documentation required for a project can be determined through the use of an Initial Study checklist (incorporated herein).

The Mitigated Negative Declaration (MND) and Initial Study contained herein have been prepared in accordance with CEQA (Public Resources Code §21000), the State CEQA Guidelines (Title 14, California Code of Regulations, §15000).

Alameda County's Role under CEQA

Prior to approving the project, the decision-making body of the lead agency must consider this document together with any comments received during the public review process. The decision-making body will adopt the document only if it finds on the basis of the whole record before it that there is no substantial evidence that the project will have a significant effect on the environment and that the document reflects the lead agency's independent judgment and analysis.

Upon completion of the public review period, the environmental document will be evaluated via a governmental decision-making process. Initially, the County's Planning Commission will consider the environmental document along with any comments received during the public review process. Ultimately, final consideration and adoption of the environmental document and project approval will be done by Alameda County. During the decision-making process, opportunities to address the decision-makers concerning the project will be provided through public hearings, which are announced at least 72 hours in advance. Notification of hearings can be obtained from Alameda County Community Development Agency, Planning Department, 244 West Winton Avenue, Suite 111, Hayward, California 94544.

The analysis in this document assumes that, unless otherwise stated, the project will be designed, constructed and operated following all applicable laws, regulations, ordinances and formally adopted federal, State and City stand-

ards. The subsequent sections of this document contain a discussion of the proposed project, its potential environmental impacts, and recommendations regarding necessary environmental documentation.

Chapter 3 – Project Description

Project Location and Existing Site Conditions

Ashland, formerly San Leandro South, is an unincorporated census-designated place in Alameda County, California. The population was 21,925 at the 2010 census. Ashland has a total area of 1.8 square miles, all of it land. Alameda County occupies most of the East Bay region of the San Francisco Bay Area. The unincorporated communities in Alameda County are governed directly by the county. Alameda County has six major unincorporated communities that qualify as census designated places, including Ashland, Cherryland and San Lorenzo. Together, Ashland and Cherryland comprise one of the most urbanized areas of the unincorporated portion of Alameda County, with a combined total population of approximately 38,000. [(1)] The two communities are within an equal commute to many of the employment centers of the Bay Area, both by freeway and transit. The project site is located roughly three miles from the San Francisco Bay shoreline, between the city of Hayward and San Leandro. Across the bay, San Francisco lies approximately 17 miles to the west.

The Ashland/Cherryland area is the target of a specific plan for revitalization of the area. Many of the economic and development opportunities that exist for this central portion of the County have remained unfulfilled and the quality of life in the residential areas has not improved.

The subject property is comprised of four contiguous parcels at the corner of East 14th Street (State Route 185) and Kent Avenue. All four parcels are improved and fully developed. One parcel is a mobile home park; the other three are single family residences. As part of the redevelopment plan, the portion of Kent Avenue that aligns with the unsignalized intersection at East 14th Street would be vacated and relinquished by the County from the roadway system and incorporated into the proposed site. This would shift traffic using the un-signalized intersection to use the signalized intersection at 164th Avenue. Together, the five parcels total approximately 2.21 acres.

Site Conditions

Based on adjacent land-use and current conditions, the Study Area appears to have been developed no less than 50 years ago. The Study Area (approximately 2.21 acres) currently includes a mobile home park, three individual residences, and several outbuildings. Development has resulted in an impermeable layer (i.e. asphalt), likely six inches to two feet deep, which is underlain by Danville silty clay loam. Due to the impermeable layer, most surface water which falls on-site flows offsite to be collected by the San Lorenzo municipal water system. The majority of the Study Area is developed, including landscaped areas. The developed area is primarily devoted to mobile home accommodations, though it also includes three permanent homes, a covered garage area, and several non-habitable "outbuildings". The remainder of the developed area is devoted to paved roads and driveways. Remainder of the Study Area features landscaped areas are dominated by a variety of common invasive herbs and vines, as well as non-native ornamental trees and shrubs.

Current General Plan and Zoning Designations

GP: *Eden Area General Plan* land use designation of High Density Residential (between 43 to 86 dwelling units per acre density) with General Commercial allowed as a secondary use.

Zoning: *Ashland Cherryland Business District Specific Plan (ACBDSP)*, Transit Access (TA) land use district and R-1 (Single-Family Residence) zoning district.

Existing Land Uses

Currently a mobile home park and three single family residences occupy the four improved parcels. There also is a portion of land that is currently public right-of-way, which the project seeks the County to abandon for use by the project for additional frontage along East 14th Street.

Surrounding Land Uses

The 2.21 acre site is an assemblage of four flat lots at the southwest corner of Kent Avenue and East 14th Street. It currently includes a mobile home park, three single family residences, and various outbuildings including an old barn. The site will add a portion of the right-of-way (if it is abandoned by the County) at the intersection of Kent Avenue and East 14th Street for use by the project. The site currently has only 5.62 feet of frontage along East 14th Street and nearly its entire frontage along Kent Avenue, but with the abandoned corner to be used by the project, would result in approximately 120 feet of frontage along East 14th Street, and the same frontage along Kent Avenue.

The site is located in the Ashland area of unincorporated Alameda County, adjacent to Edendale Park, Edendale Middle School, Hayward Area Recreation District Jack Holland Park, and the Alameda County Ashland Youth Center, currently under construction. There is a small grocery store located southeast of the site, and a single-family residential neighborhood located south of the site along Kent Avenue. A multi-family housing complex is located south of the small grocery store. A mix of commercial businesses is located along East 14th Street northwest and southeast of the site. There are several AC Transit bus lines along East 14th Street in front of the property, and Bay Fair BART station and Bayfair shopping mall located to the northwest.

Proposed Project

Resources for Community Development (RCD) is developing the Ashland Family Housing affordable housing project located at 16309 – 16331 Kent Avenue, Ashland area of unincorporated Alameda County. The project envisions demolition of existing structures and new construction of 85 affordable rental apartments for emancipated foster youth, individuals, and families who earn income of 30% to 50% of Area Median Income (AMI). There will be 29 one-bedroom, one-bath units; 30 two-bedroom, one-bath units; and 26 three-bedroom, two-bath units comprising the total of 85 units. In keeping with the renaissance goals of the Ashland and Cherryland Business Districts Specific Plan, 2,339 square feet of commercial space will be placed along the East 14th Street frontage. In addition to the mixed-uses stated here, a community room, classrooms, computer room, office and garden community room will also be constructed. A total of 99 parking spaces will be provided onsite: three (3) will be accessible; 93 spaces will be assigned to residents; and six (6) spaces will be parking for the commercial space. In addition, twenty-four (24) secured bicycle spaces will be provided. Each unit will receive one free transit pass for at least 40 years or for the life of the project.

Green features

Green Features:

Ashland Family Homes will be designed to be a Green Point Rated community. Outside of rent, one of the largest expenses for residents is utility costs. Creating savings in that area by building “green”, RCD further promotes the financial stability of its residents. Any project also has to comply with CalGreen State Building Standards Code, with required Stormwater Treatment Measures, and with local construction and demolition recycling codes, which include many of the provisions listed below:

- ENERGY STAR appliances in all units
- Energy-efficient, low mercury lighting
- Low-flow restrictors on bathroom and kitchen faucets
- Recycled content carpet and ground concrete flooring
- Low or no-VOC paints

- Formaldehyde-free cabinet boxes, counter top substrates, and building insulation
- Implementation of indoor construction air quality management plan
- Construction waste recycling plan that diverts 75% of construction waste from landfills
- Drought tolerant landscaping, bioswale drainage and filtration, and water permeable pavement

Green Building Measures:

- The project site is in proximity to multiple modes of transit including main bus line and BART.
- The buildings are by and large oriented to take advantage of north and south exposures.
- The Garden Buildings (buildings B, C and D) are designed such that the units run from front to back. This allows for positive natural ventilation through the units.
- Green building materials /systems:
    - Recycled content cementitious siding
    - Sustainably harvested wood (trellises and accents only)
    - Low-e insulated glass windows
    - Cool roof
    - Green Roof (Building E)
    - Storm water treatment, site design, source control, and hydromodification management measures
    - Solar thermal hot water heating

Amenities

- Community center with large multi-purpose meeting/community room and computer center
- Laundry facilities
- Onsite resident support services such as youth programs, educational workshops and job readiness classes (at no cost to residents)
- Lushly landscaped patio, a courtyard garden and raised vegetable garden planting beds for residents
- Secured onsite parking
- One free AC Transit pass will be provided to each household annually for 40 years

Proximity

- Less than a ¼ mile from public transit lines
- Less than a 1 mile from the Bay Fair BART station and Bayfair Center which offers a wide range of restaurant options an assortment of retail opportunities and a certified farmers market that is open daily.
- Located adjacent to Edendale Park, Edendale Middle School, and baseball fields

Project Objectives

The project seeks to complement the youth center currently under construction adjacent to the property by providing affordable housing for emancipated youth exiting the foster care system, as well as provide affordable housing for larger families and individuals. A total of 26 of the 85 units will be three-bedroom, two-bath apartments for larger families.

Project Characteristics

Relocation

A suitable Relocation Plan that conforms to the Uniform Relocation Act will be required. Four of the parcels were occupied with residents at the time the developer acquired them. The developer has begun to relocate the occupants permanently, according to the Relocation Plan.

Demolition

The existing mobile home park, single family residences, a barn, and associated out-buildings will be demolished. The site will be cleared of the current improvements. Five (5) of seven (7) trees on the project parcels will be removed. Two mature trees will remain: a Jacaranda along Kent Avenue and a Mexican Ash at the rear of the property. The AC Transit bus stop located on the island that currently exists in the public right-of-way will be demolished. The new AC Transit bus stop will be located across Kent Avenue to the south east of the project site.

Construction

All four parcels plus a portion of the County right-of-way at the corner of Kent Avenue and East 14th Street will be developed with a total of 85 units of affordable housing and approximately 2,339 square feet of commercial uses. Street and public right-of-way improvements will also be made along the East 14th Street frontage and Kent Avenue. Please see Figures 1-6 on the pages that follow for a sample of site plans and elevations. A complete submittal of plans can be found in Appendix H.

Planning and Zoning Consistency

The *Ashland and Cherryland Business Districts Specific Plan* for the commercial districts of the Ashland and Cherryland communities seeks to revitalize commercial development in the area and conserve and restore the quality of the adjacent residential neighborhoods. Together, Ashland and Cherryland comprise one of the most urbanized areas of the unincorporated portion of Alameda County, with a combined total population of approximately thirty-eight thousand people. The two communities are within an equal commute to many of the employment centers of the Bay Area, both by freeway and transit. Yet, many of the economic and development opportunities that exist for this central portion of the County have remained unfulfilled and the quality of life in the residential areas has not improved.

General Plan

The *Eden Area General Plan* designates the four subject sites as High Density Residential (between 43 to 86 dwelling units per acre density) with General Commercial allowed as a secondary use.

The project involves demolition of the existing mobile home park on the subject property (which contains 16 units) and redevelopment of the site with increased density. The proposed project is consistent with the Eden Area General Plan.

The County's land use plan designates the two-mile East 14th Corridor southeast of Bayfair Drive as "General Commercial or Medium/High Density Residential". This is the County's equivalent to San Leandro's "Corridor Mixed Use" designation. It allows either residential, commercial, or mixed use development, with densities of up to about 40 units per acre. The Ashland Business District is also contained in a Joint City-County Redevelopment Project area that extends into San Leandro along East 14th Street.

The General Plan designation of the four subject sites is High Density Residential (between 43 to 86 dwelling units per acre density) with General Commercial allowed as a secondary use. This designation allows the proposed density of 38.4 dwelling units per acre (2.22 acre site with 85 proposed dwelling units).

Source Documentation: (1)

Zoning

The *Ashland Cherryland Business District Specific Plan (ACBDSP)* designates the largest parcel (1.2 acres, APN 080C-0479-023-02) within the Transit Access (TA) land use district. This designation encourages commercial development and allows mixed-use residential densities of up to 50 du/ac. The other three parcels are located in the R-1 (Single-Family Residence) zoning district (which allows densities of up to 9 du/ac). The proposed rezoning to a

PD (Planned Development zoning district) of all of the four parcels is in keeping with the required review through Planned Unit Development for proposed mixed-use projects per the Specific Plan, and is vertically consistent with the High Density Residential land use designation of the Eden General Plan for proposed redevelopment of the properties currently zoned R-1.

The Specific Plan for the six identified Ashland and Cherryland business districts promotes transit oriented development along East 14th Street/Mission Boulevard, as well as development that takes advantage of existing highway and freeway access. Transit stops are set in locations for higher intensity, mixed-use development in four of the six business districts. Intensive commercial development on Lewelling/East Lewelling Boulevard is concentrated near Mission Boulevard, to the east end, and near Hesperian Boulevard, to the west. Between these two areas, the Specific Plan promotes commercial development on East Lewelling Boulevard that is significantly less intensive and that is more responsive to the high school and to the predominately residential character of the identified Business District.

The Specific Plan also outlines a comprehensive set of public reinvestment projects that are designed to restore a high quality of life to neighborhoods within walking distance of shopping and public transportation. These projects include new community service facilities and programs that will serve and nurture the unusual diversity of people who live in the area. Facade and sign improvement programs and, ultimately, street landscaping and public places are planned that both will improve the appearance of the area and create a more attractive climate for promoting new private sector reinvestment.

Development of mobile home parks, in whole or in part by either private or public means and conversion to commercial or high density residential development, consistent with Plan policies, is allowed and encouraged, is the long-term objective of this policy, and is subject to providing comparable replacement housing in the community for all residents who are being displaced and who desire it according to established redevelopment law. Such housing shall be dedicated as low cost housing for the maximum time period allowed, unless otherwise provided under the Specific Plan, the Redevelopment Plan, or by County ordinance or policy.

To the extent that the mobile home parks on East 14th Street take up commercial frontage, they represent an underutilization of property, and all reasonable efforts should be pursued for redevelopment of these sites following the revitalization scenarios outlined for each business district. At present, most of the mobile home sites provide little in any physical amenities for residents. In the short term, assistance is to be provided for site landscaping of the mobile home parks appropriate to their use as residential areas.

The *Ashland Cherryland Business District Specific Plan* includes further goals, policies, and standards for how this corridor should be developed and includes an action plan to finance and build specific public improvements. The identified Revitalization Opportunities and Revitalization Strategy for the Ashland Avenues Business District of the Specific Plan, which includes the subject sites, complements the Transit Access zoning designation Development Regulations regarding mixed use development, retail commercial development on the ground floor, and physical standards of construction.

Source Documentation: (1) (2)

Requested Actions and Required Approvals

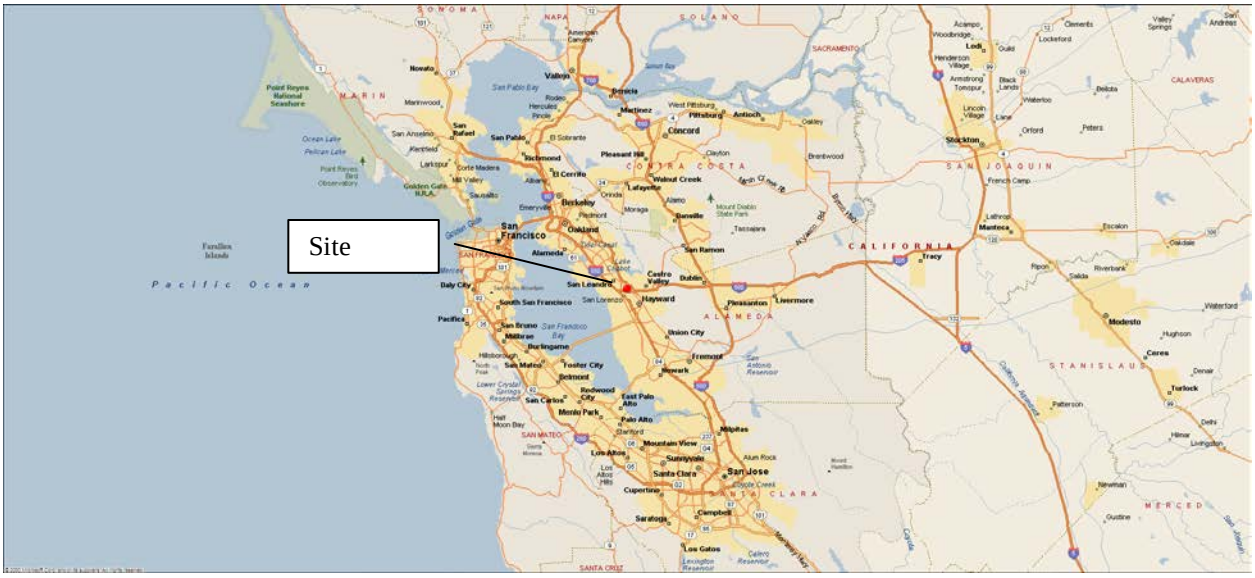
This Initial Study will be used to provide decision-makers and the general public with relevant environmental information about the project. The Initial Study will be used by the County when considering approval of the project. Approvals required for implementation of the project include, without limitations, the following.

Alameda County Approvals

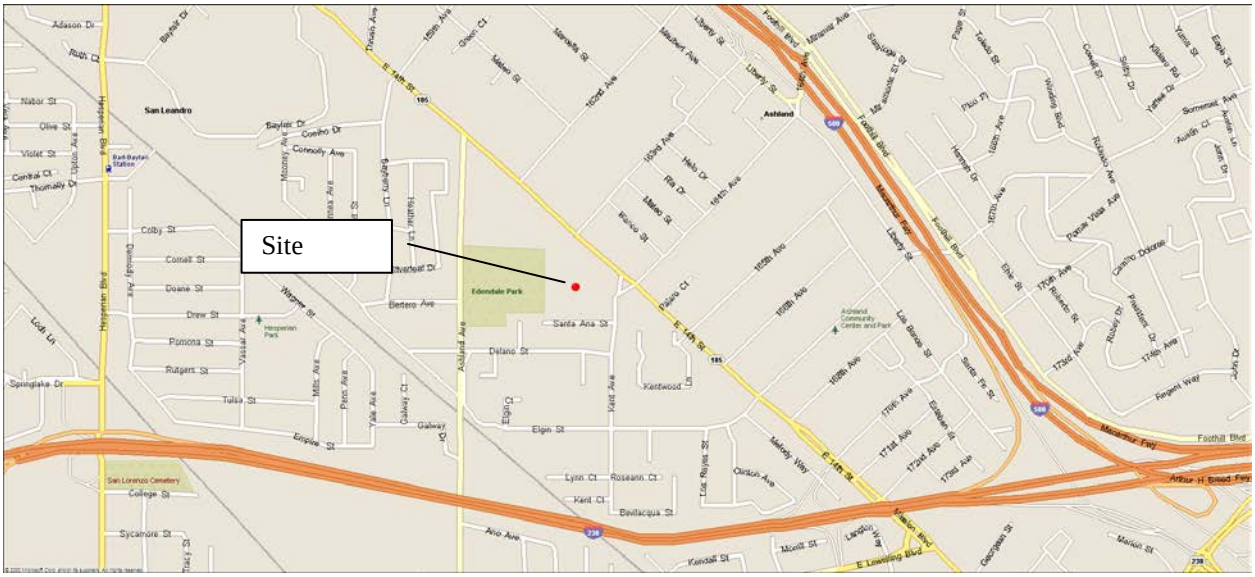
- Rezoning to a Planned Development Zoning District

- Boundary Adjustment
- Demolition Permit
- Grading Permit
- Building Permit
- Encroachment Permit
- Stormwater Permit
- Fire Clearance

Project Location

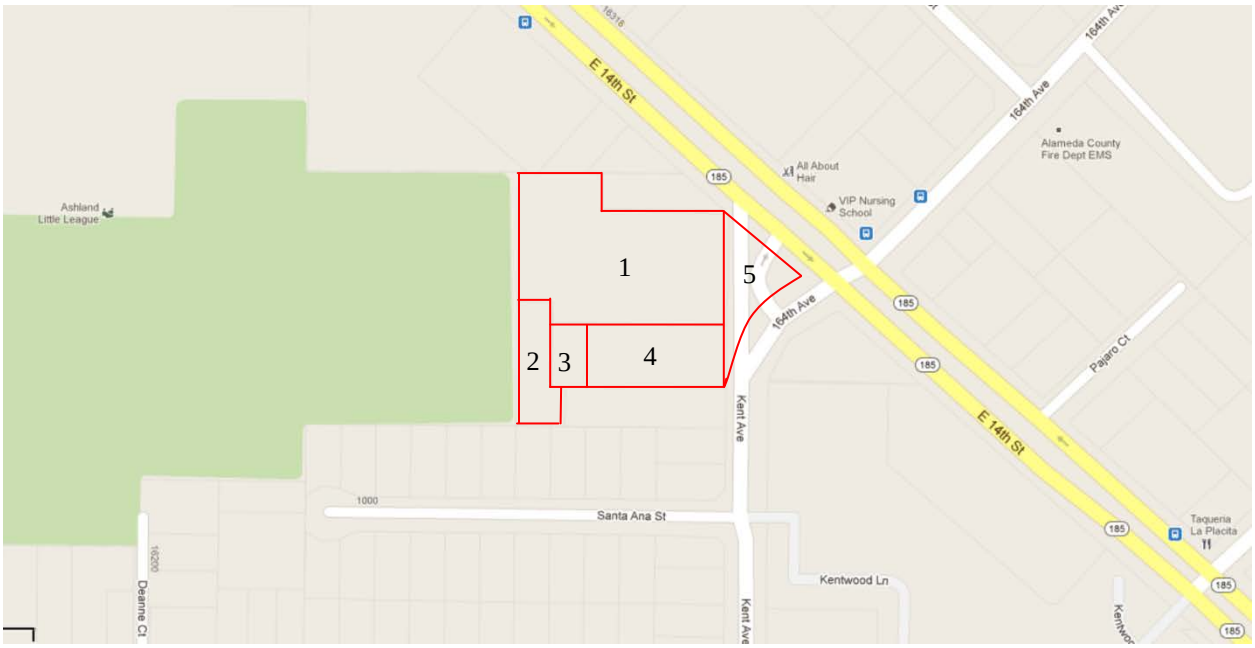


Map 1 Region



Map 2 Detail

Project Location (Continued)



Map 3 Assessor's Parcel Numbers

Table 2 Subject Parcel Information

Number	APN	Current Land Use	Size in Acres
1	080C-0479-023-02	Mobile Home Park	1.22
2	080C-0479-023-01	Single Family Residential	0.23
3	080C-0479-021-00	Single Family Residential	0.11
4	080C-0479-022-00	2, 3, or 4 Single Family Residences	0.44
5	None assigned	Public Right-of-Way Between Kent Avenue and 164th Ave.	approx. 0.21

Project Location (Continued)

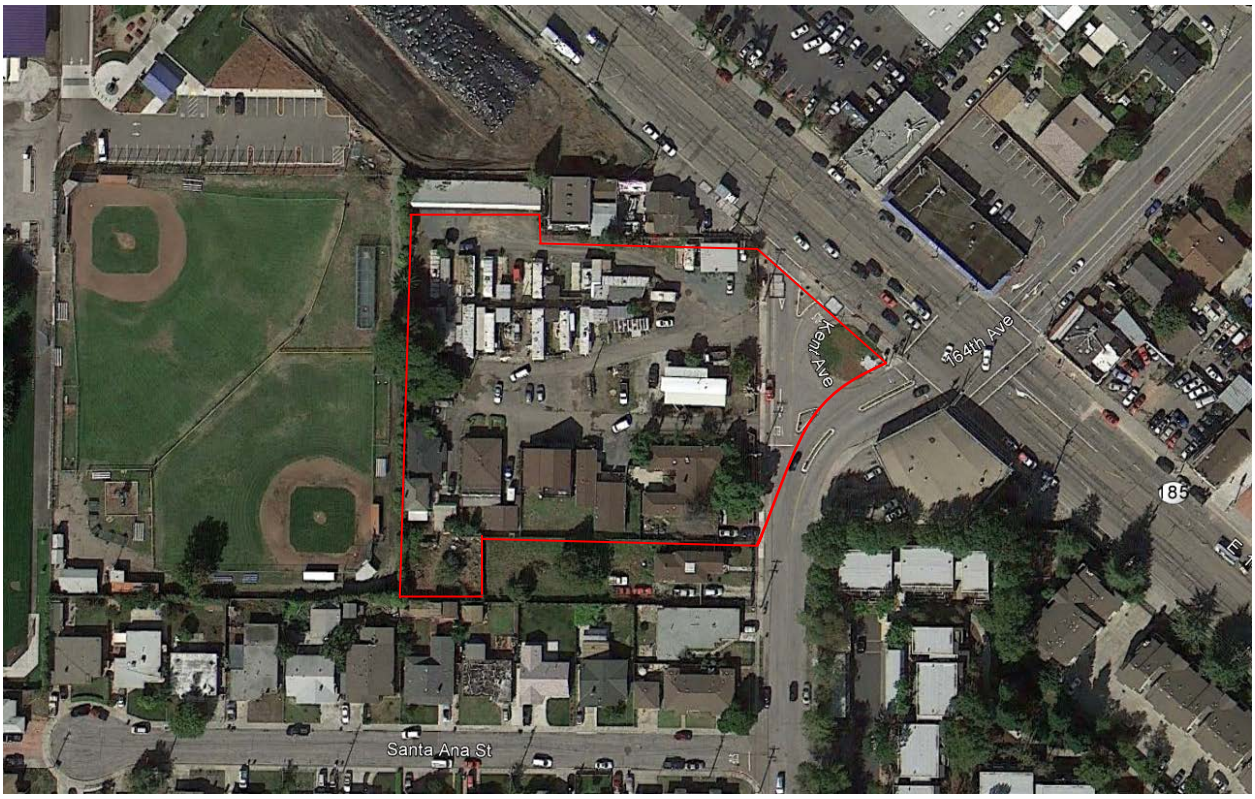


Photo 1 Existing conditions with site boundary overlain (Not to Scale)

Figure 1 Rendered Perspectives

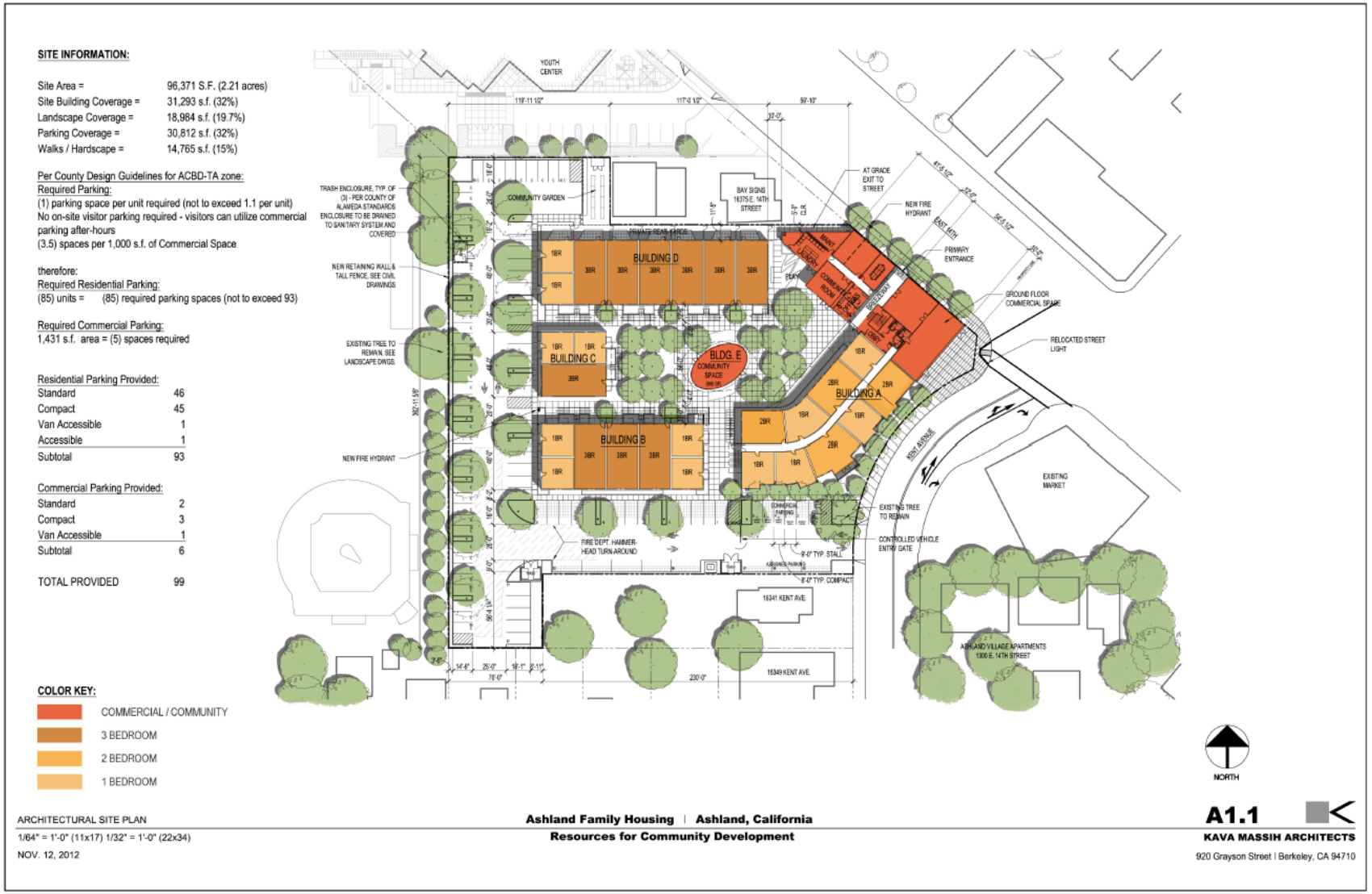


Figure 2 Architectural Site Plan

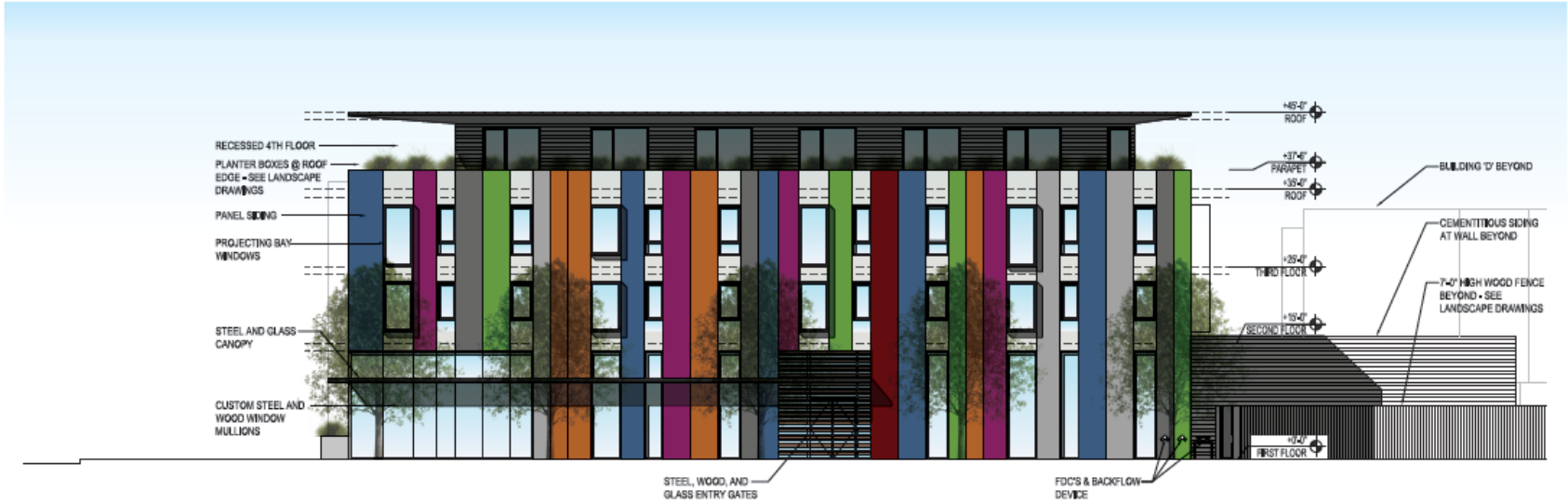


Figure 3 Building "A" Northeast Elevation along E. 14th Street

Figure 4 Building "A" Elevations from Kent Avenue ***** Note: Colors may change***

Figure 5 Building "B" Elevations (North)

Figure 6 Building "D" Elevations (South)

Chapter 4 – Initial Study Checklist

Pursuant to CEQA Guidelines Section 15063, the following sections provide an evaluation of whether the project will have any significant effects on the environment.

If an environmental issue would not be affected by the project it is identified in the following evaluation as ***"no impact".***

A "***less than significant***" response indicates that while there may be potential for an environmental impact, there are standard procedures or regulations in place, or other features of the project as proposed, which would limit the extent of this impact to a level of ***less than significant***.

If an environmental issue may cause a significant effect on the environment, but the Applicant has agreed to implement mitigation measures that would reduce this impact to a ***less than significant*** level, it is identified in the following evaluation as "***less than significant with mitigation***" and these new measures are specifically identified.

If an environmental issue may cause a significant effect on the environment, it is identified in the following evaluation as "potentially significant" and will be analyzed in a project-level EIR.

I. ***AESTHETICS*** Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Have a substantial adverse effect on a scenic vista?			x	
b) Substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?			x	
c) Substantially degrade the existing visual character or quality of the site and surroundings?		x		
d) Create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area?		x		

Setting

The project site is located along the East 14th Street/State Route 185 corridor in the unincorporated area of Alameda County known as the Ashland area. The site is surrounded by a mix of commercial and residential uses. Ashland Avenue lies approximately 1,822 feet to the north northwest of the proposed project site along East 14th Street. The area is relatively flat. There are no scenic vistas on or near the project site. East 14th Street/State Route 185 is not a designated scenic highway.

Impacts

a) and b) Scenic Resources

There are no major scenic vistas along East 14th Street, due mainly to the flat topography and the commercial development that borders the roadway. Views to the northwest along East 14th extend into infinity, while those to the southeast are marked partly by the 1-238 bridge over East 14th and in the far distance, the Hayward Hills. Both views are dominated by a concentration of overhead power and communication poles on the southwest side (bordering the subject site), ameliorated very slightly by tall trees scattered in the neighborhood. The streetscape along East 14th Street in front of the site is not enhanced with street trees or other vegetation or special features. The Chabot Ridge hills to the northeast form the most prominent and attractive visual element in the area and are visible from most locations within the project site, but only through the aforementioned overhead power and communication poles. East 14th Street is not designated as a scenic highway; the nearest scenic highway is 1-580 about half a mile northeast of the site. The open portion of the site itself contains no features of interest.

In summary, the proposed project would not block any scenic vista, because the only possible vista towards the Chabot Ridge is compromised as a vista by the existing overhead power and communication poles, and there would be no impact. There would be no impact on 1-580 scenic highway, because the buildings that will housing the dwelling units and commercial space would lie below the horizon and behind most intervening development. With regard to the visual character of the site and its surroundings, the proposed project would substantially change the visual character of the open portion of site from one of a former mobile home park and single family homes to a new use as commercial space and affordable housing. The three-story structures may contrast moderately with the low-rise commercial development on various other sites along East 14th Street, but would primarily add substantial distinctiveness to the character of the street, and complement the other buildings, especially the adjacent Ashland Youth Center project currently under construction. The proposed project would not adversely affect a scenic vista, result in a negative impact on a scenic resource, or degrade the existing character of the surrounding area. Therefore, there would be ***no impact*** in these issue areas. Source documentation: (2)

The County of Alameda has a list of landmarks and contributing buildings complied from previous historic surveys between the years 2005-2008. The list includes trees of historical importance. The subject parcels contain a total of seven (7) trees. None of the trees on the subject parcels are found on the list. There are no trees within a 300 foot radius of the project site that are listed as a historic resource. The proposed project will remove five (5) of the existing seven (7) trees. Two (2) mature trees will remain: a Jacaranda adjacent to Kent Avenue and a Mexican Ash at the rear of the property. Since none of the trees to be removed are a historic resource, there is ***no impact*** in this regard. Source documentation: (8) (9) (10)

The project site is not a historic resource[2]. There are no historic resources in the Area of Potential Effects; therefore no shadowing of historic resources will occur as a result of the project. Source documentation: (11) (12) (13) (14) (15)

c) Visual Character

The proposed project is consistent with the Ashland/Cherryland Specific Plan. The proposal involves reconfiguration of the Kent Avenue/East 14th Street intersection. The reconfiguration involves relocation and undergrounding of the existing utilities on Kent Avenue. A portion of the right-of-way to be vacated by Alameda County is dependent

[2] *Please see section V. 'Cultural Resources' for a complete evaluation of historic resources.*

upon the agreement of the project applicant to make improvements to the roadway based on a design reviewed and approved, as well as completed construction work, acceptable to both California Department of Transportation (Caltrans) and Alameda County Public Works Agency (ACPWA). Acceptance and approval of the design will ensure that the proposed project is consistent with the Caltrans East 14th Street Master Plan, the Alameda County East 14th Street/Mission Boulevard Master Plan, and Caltrans East 14th Street/Mission Boulevard Streetscape project. In addition, the existing AC Transit bus stop currently located on the island within the Kent Avenue right-of-way will be demolished and located south east of the project. The new location of the bus stop requires AC Transit approval and acceptance.

Implementation of the project will make improvements to the visual character of the area and make public improvements to sidewalks, pedestrian crossings and the streetscape that is consistent with long-term plans. The improvements made will be consistent with, and dove-tail with the adjacent project, Ashland Youth Center. The mitigation measures for the project listed below will ensure that impacts to visual character of the project site and surrounding area are ***less that significant with mitigations***.

d) Light and Glare

The project sponsor has not yet submitted a lighting plan. In order to reduce the potential light and glare impacts to less than significant levels, a lighting plan should be submitted for this project to include measures such as ensuring exterior lighting features shine in a downward manner, not shining above the horizontal plane, and having cut-off shields on outdoor or driveway lighting to direct lighting from the site away from the night sky and adjacent property, etc. The lighting plan should demonstrate that the project will not result in substantial new sources of lighting or glare, adversely affecting day or nighttime views. Streetlights shall be installed at the locations shown on plans approved by Alameda County in accordance with the Streetlight Design Guidelines and Specifications. Prior to approval of the building permits for this project, the Planning Director should review the exterior lighting plans to ensure that the above measures are followed. By following the above mitigation measures, the impacts on light and glare from this project will be reduced to ***less than significant with mitigation*** levels. Source documentation: (8)

Shadows

The project envisions three, three-story structures on the project site. The fourth structure (the mixed-use structure at the corner of Kent Avenue and East 14th Street) would be partially a four-story structure. The site will occupy the corner of East 14th Street and Kent Avenue and be surrounded by circulation and parking. To the north of the project site are located a commercial sign fabricator and store, as well as the new Ashland Youth Center. To the west of the site are located baseball fields at Edendale Park. Any potential effects from shadows would come from mid-morning through evening shadows cast by the project on existing neighboring sensitive receptors, such as residences, or outdoor commercial or civic uses such as outdoor restaurants, plazas, or parks. The proposed structures are surrounded to the south by a 60-foot wide parking lot, to the west by a 70-foot wide parking lot, to the east by a 60-foot wide right-of-way that is Kent Avenue, and partially to the north by a 100-foot wide right-of-way that is East 14th Street. The south and west side structures would cast daytime and afternoon/evening shadows on the project itself. The other buildings would cast daytime and afternoon/evening shadows on parking lots, streets, a commercial building, and the Ashland Youth Center. No sensitive receptors such as residential structures, outdoor commercial or civic uses such as outdoor restaurants, plazas, or parks would get mid-morning to mid-afternoon shadows from these buildings. Early morning and later afternoon/evening shadows are considered less than significant. The effect of shadows created onto the project itself by the buildings is considered less-than-significant. Source documentation: (8)

At present there is no evidence to suggest that any buildings surrounding the project site currently utilize passive solar heat collection systems; however, the completion of this project would not preclude the installation of such systems by any surrounding buildings in the future. Therefore, there would be no impact in this regard. Source documentation: (8) (16)

Mitigations

Aesthetics

A1. The applicant shall obtain approval from Pacific Gas & Electric (PG&E), East Bay Municipal Utility District (EBMUD), Oro Loma, Comcast, American Telephone & Telegraph (AT&T), and others which own utility facilities presently existing in the present road configuration of Kent Avenue to a relocate (which may include undergrounding of overhead lines) of their respective utility facilities to a new configuration of Kent Avenue that is acceptable to the Alameda County Public Works Agency (ACPWA).

A2. The applicant shall, at its sole expense, provide all the road improvement based on a design reviewed and approved, as well as completed construction work, acceptable to both California Department of Transportation (Caltrans) and ACPWA.

A3. The applicant shall redesign the Kent Avenue and Southeast bound East 14th Street signal so that they are acceptable to both Caltrans and ACPWA.

A4. The applicant shall realign Kent Avenue to adequately interface and/or be compatible with the overall Caltrans East 14th Street "Streetscape" plan.

A5. The applicant shall design the frontage of the proposed project appropriately in accordance with the East 14th Street Master Plan by Caltrans. Applicant is required to obtain Caltrans and ACPWA approval of the building location behind the new intersection.

A6. The applicant shall complete frontage improvements consistent with the Master Plan.

A7. The applicant shall provide all property dedications to the County in a form and a manner acceptable to the Real Estate Division, Public Works Agency.

A8. The applicant shall acquire an encroachment permit from Alameda County and/or Caltrans, as appropriate, for all work within the roadway right-of-way.

A9. The applicant is required to submit a lighting plan that includes mitigation measures to ensure light and glare impacts are less than significant.

A10. All exterior lights on the property shall be privately owned and maintained by the applicant or property owner.

A11. All streetlights on public streets installed by the applicant shall meet County standards and shall be owned and maintained by the County. These lights shall be energized at the PG&E LS-2 rate schedule.

A12. The applicant shall install streetlights at locations shown on plans approved by the County in accordance with the Streetlight Design Guidelines and Specifications. Streetlight plans shall include electrolier and foundation details, trench detail, and a circuitry plan that includes pole identification numbers, PG&E service points, underground conduit size, wires, alignment, and pull box locations.

II. *AGRICULTURE AND FORESTRY RESOURCES* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Convert prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				x
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				x
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				x
d) Result in the loss of forest land or conversion of forest land to non-forest use?				x
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of forest land to non-forest use?				x

Setting

The project site and surrounding urban area is currently improved with buildings and structures.

Impacts

a) through e) Agricultural Soils

The project site is located in an urban area. All four subject parcels are currently developed and improved with structures. The site is not used for agricultural purposes; therefore there would be ***no impact*** to agricultural resources as a result of this project. Source documentation: (17)

III. *AIR QUALITY* Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Conflict with or obstruct implementation of the applicable air quality plan?			x	
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?			x	
c) 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)?			x	
d) Expose sensitive receptors to substantial pollutant concentrations?			x	
e) Create objectionable odors affecting a substantial number of people?			x	
f) Result in a substantial increase in diesel emissions?		x		

Setting

Regulatory Setting

The Federal Clean Air Act governs air quality in the United States. In addition to being subject to federal requirements, air quality in California is also governed by more stringent regulations under the California Clean Air Act. At the Federal level, the United States Environmental Protection Agency (USEPA) administers the Clean Air Act (CAA). The California Clean Air Act is administered by the California Air Resources Board (CARB) at the State level and by the Air Quality Management District at the regional and local levels. The Bay Area Air Quality Management District (BAAQMD) regulates air quality at the regional level, which includes the nine-county Bay Area.

Community Air Contaminants and their Health Effects

*Fine Particulate Matter [PM*2.5*]*

Particulate matter pollution consists of very small particles suspended in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter also forms when industry and gaseous pollutants undergo chemical reactions in the atmosphere. Respirable particulate matter (PM10) and fine particulate matter (PM2.5) represent fractions of particulate matter. PM10 refers to particulate matter less than 10 microns in diameter and PM2.5 refers to particulate matter that is 2.5 microns or less in diameter. Major sources of PM2.5 result primarily from diesel fuel combustion (from motor vehicles, power generation, and industrial facilities), residential fireplaces, and wood stoves. PM10 include all PM2.5 sources as well as emissions from dust generated by construction, landfills, and agriculture; wildfires and brush/waste burning, industrial sources, windblown dust from open lands, and atmospher-

ic, chemical, and photochemical reactions. PM10 and PM2.5 pose a greater health risk than larger-size particles, because these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract increasing the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Whereas, larger particles tend to collect in the upper portion of the respiratory system, PM2.5 are so tiny that they can penetrate deeper into the lungs and damage lung tissues. Suspended particulates also damage and discolor surfaces on which they settle, as well as produce haze and reduce regional visibility.

Toxic Air Contaminants

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 two-thirds of the cancer risk from TACs (based on the statewide average). According to the 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 reports that recent air pollution studies have shown an association that diesel exhaust and other cancer-causing toxic air contaminants emitted from vehicles are responsible for much of the overall cancer risk from TACs in California. DPM emitted by diesel-fueled engines was found to comprise much of that risk. DPM can be distributed over large regions, thus leading to widespread public exposure. Diesel engines emit particulate matter at a rate about 20 times greater than comparable gasoline engines. The vast majority of diesel exhaust particles (over 90 percent) consist of PM2.5, which are particles that can be inhaled deep into the lung. Like other particles of this size, a portion will eventually become trapped within the lung, possibly leading to adverse health effects. While the gaseous portion of diesel exhaust also contains TACs, CARB's 1998 action was specific to DPM, which accounts for much of the cancer-causing potential from diesel exhaust. California has adopted a comprehensive diesel risk reduction program to reduce DPM emissions 85 percent by 2020. The U.S. EPA and CARB adopted low sulfur diesel fuel standards in 2006 that reduce diesel particulate matter substantially.

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 December 2008 CARB approved a new regulation to reduce emissions of DPM and nitrogen oxides from existing on-road heavy-duty diesel fueled vehicles[3]. 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

[3] *http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm*

equivalent by 2023. These requirements are phased in over the compliance period and depend on the model year of the vehicle.

Non-diesel vehicles also emit TACs, primarily in the form of organic compounds. A fraction of the total organic gas (TOG) emissions from vehicles are TACs. Organic compounds that have been identified as TACs associated with the emissions from vehicles include acetaldehyde, benzene, 1,3-butadiene, ethyl benzene, formaldehyde, hexane, naphthalene, toluene, and xylenes. These TACS are emitted from vehicle exhaust and from evaporative emissions that emanate from hoses, fittings or canisters, while the vehicle is being operated.

Common stationary source types of TAC and $PM_{2.5}$ emissions include gasoline stations, dry cleaners, and diesel backup generators, which are subject to BAAQMD permit requirements. The other, often more significant, common source type is on-road motor vehicles on freeways and roads such as trucks and cars, and off-road sources such as construction equipment, ships and trains.

Area of Influence

The BAAQMD recommends that general plans include buffer zones (Area of Influence) to separate sensitive receptors from sources of air toxic contaminants and odors. In April 2005, CARB released the final version of the Air Quality and Land Use Handbook, which is intended to encourage local land use agencies to consider the risks from air pollution prior to making decisions that approve the siting of new sensitive receptors (e.g., schools, homes, or daycare centers) near sources of air pollution.

Unlike industrial or stationary sources of air pollution, siting of new sensitive receptors does not require air quality permits, but could create air quality problems. The primary purpose of the handbook is to highlight the potential health impacts associated with proximity to common air pollution sources, so that those issues are considered in the planning process. CARB makes recommendations regarding the siting of new sensitive land uses near freeways, truck distribution centers, dry cleaners, gasoline dispensing stations, and other air pollution sources. These "advisory" recommendations include setbacks of 500 feet between new residences and freeways. The setbacks are based primarily on modeling information and are not reflective of site-specific conditions in the San Lorenzo area. Siting of new sensitive land uses within these recommended distances may be possible, but only after Air Quality screening and site-specific studies are conducted to identify the actual health risks. CARB acknowledges that land use agencies have to balance other siting considerations such as housing and transportation needs, economic development priorities and other quality of life issues.

BAAQMD Significance Thresholds

The BAAQMD adopted “Thresholds of Significance” for local community risk and hazard impacts that apply to both the siting of a new source and to the siting of a new receptor. Local community risk and hazard impacts are associated with TACs and PM2.5 because emissions of these pollutants can have significant health impacts at the local level[4].

[4] *The BAAQMD Thresholds of Significance effective May 2011.*

Table 3 BAAQMD Thresholds of Significance

Analysis	New Source	New Receptor
Individual Project	Compliance with qualified community risk reduction plan OR To the nearest receptor (resident) regardless of distance: Increased Cancer Risk > 10 in a million Increased Chronic and Acute Hazard Index > 1.0 Ambient PM2.5 concentration Increase > 0.3 ug/m^3	Compliance with qualified community risk reduction plan OR From the source with the highest cancer risk, PM2.5 concentration, or hazard in comparison to other sources within the 1,000 foot radius of the receptor: Increased Cancer Risk > 10 in a million Increased Chronic and Acute Hazard Index > 1.0 Ambient PM2.5 concentration increase > 0.3 ug/m^3
Cumulative Impacts	Compliance with qualified community risk reduction plan OR Common sources within 1,000 foot radius of the individual project modeled to the maximum likely exposed individual (resident) based on the individual source analysis: Cancer Risk > 100 in a million Chronic Hazard Index > 10.0 PM2.5 concentration > 0.8 ug/m^3	Compliance with qualified community risk reduction plan OR Major sources within 1,000 foot radius of the receptor: Cancer Risk > 100 in a million Chronic Hazard Index > 10.0 $PM_{2.5}$ concentration > 0.8 ug/m^3

If emissions of TACs or PM2.5 exceed any of the Thresholds of Significance listed in Table 2, the proposed project would result in a significant impact. Source documentation: (18)

Alameda County does not have a qualified risk reduction plan. The site, and any future project to be constructed on that site, would be located near a freeway or major arterial highway, an analysis of TAC and PM2.5 impacts upon sensitive receptors is necessary.

Impacts

a) through d) and f) Initial Air Quality Screening

A 1,000 foot radius was identified around the project site as the Area of Influence. An identification of significant sources and receptors within the Area of Influence was conducted using the BAAQMD recommended screening method. The initial screening for the project compared the screening values based on distances to the nearest major roadway and/or emissions from significant sources to the CEQA thresholds. The BAAQMD provides screening ta-

bles for California designated highways and certain existing permitted, stationary sources as an initial screen to determine if nearby sources or roadways may have a significant impact on a project. An evaluation of the cumulative impacts from all TAC and $PM_{2.5}$ sources was also considered in the initial screen. The cumulative impacts are the summation of the cancer risks, hazards, and $PM_{2.5}$ concentrations from all significant sources identified within 1,000 foot radius of the project.

Emissions Modeling[5]

This analysis involved the development of future DPM, organic TAC and PM2.5 emissions for traffic on East 14th Street using the latest version of the CARB EMFAC2007 emission factor model with the traffic mix developed from Caltrans and model defaults for Alameda County. EMFAC2007 is the most recent version of the CARB motor vehicle emission factor model. DPM emissions are predicted by the model to decrease in the future. However, the current version of EMFAC2007 does not incorporate the effects of the recent on-road diesel vehicle regulations, which will substantially reduce DPM emissions even further. The requirements for diesel trucks are phased in for future years and depend on the model year of the trucks. Since this analysis assesses the long-term risk of proposed sensitive uses to future exposures, the lower future emissions were taken into account. The diesel truck age distribution used in the EMFAC2007 model was adjusted to reflect the effects of the new regulations. These adjustments include recent action by CARB to delay some of the requirements of the regulation.

The EMFAC2007 model was also used to develop average hourly traffic distributions for Alameda County roadways, which were then applied to the average daily traffic volumes for East 14th Street to obtain hourly traffic volumes. Average travel speed of 25 mph for East 14th Street was applied.

Table 4 Summary of Annual PM2.5 Concentrations

		PM2.5 Concentration (µg/m3)	
	Receptor	Maximum*	Average**
Emission Source	Location	Annual	Annual
Highway 185	Receptor No. 5	0.07	0.06

* Highest modeled concentration over all emission years (2013) and meteorological data years (1990 - 1994).

** Average concentration for all emission years and meteorological data years.

Roadway Sources – Thresholds of Significance

Under the BAAQMD CEQA Air Quality Guidelines, an incremental risk of greater than 10 cases per million from a single source at the Maximally Exposed Individual (MEI) would result in a significant impact. Based on the air quality modeling discussed above, cancer risks would be considered ***less than significant*** for 70-year residential exposures.

[5] *Air Quality Model Runs by Illingworth & Rodkin, May 2011. Reyeff, James*

A review of traffic information reported by Caltrans indicates there is one roadway within the Area of Influence of the project with average daily traffic (ADT) in excess of 10,000 average daily trips: East 14th Street with ADT of 17,800 vehicles, 2.2% trucks and 0.3% heavy-duty trucks. According to the BAAQMD CEQA Air Quality Guidelines, modeling of East 14th Street traffic emissions to predict health risk and PM2.5 is necessary to identify the significance of long-term residential exposures.

The total cancer risk for all sources of roadway toxic air contaminants is 5.04 in a million for all compounds (DPM and organic TACs) would also be ***less than significant***.

Potential non-cancer health effects due to chronic exposure to DPM were estimated based on the BAAQMD screening tables (Link 430) at 10 feet from SR 185 and 20 feet building height. Thus, the Hazard Index (HI) would be ***less than significant*** for the criterion of a HI greater than 1.0.

Table 5 Thresholds of Significance – Roadways – Cancer and Non-Cancer (Chronic and Acute) Hazard Indices

Description	Screening Value	Thresholds	Exceeds Threshold?
PM2.5 Concentration	0.07 ug/m3	0.3 ug/m^3	No
Cancer Risk	5.04 in a million	10 in a million	No
Chronic Non-cancer Hazard Index @ 20' ht.	0.007	>1	No
Acute Non-cancer Hazard Index @ 20' ht	0.027	>1	No
Chronic Non-cancer Hazard Index @ 6' ht.	.012	>1	No
Acute Non-cancer Hazard Index @ 6' ht.	.028	>1	No

Stationary Sources – Thresholds of Significance

A review of BAAQMD records indicates that there are three permitted stationary sources in the area located along 14th Street within Area of Influence of the project site. According to the BAAQMD CEQA Air Quality Guidelines, the Windmill Cleaners located 259 feet north of the projects site on 14th Street has a Cancer Screening Risk of 28.70 in a million. Further emissions analysis to predict health risk and PM2.5 is necessary to identify the significance of long-term residential exposures.

Second tier Screen modeling of the dry cleaners near the Ashland Family Housing project had a cancer risk of 15.2 per million from Perchloroethylene. Refined modeling with the ISCST3 model and 5 years of meteorological data from Union City were used to refine the model. Perchloroethylene emissions for modeling were calculated based on the daily emission rate of 1.42 lb/day, provided by the BAAQMD, and assuming that the dry cleaning operations occurred over 12 hours per day (from 8am - 8pm). The dry cleaner emissions were modeled as coming from a roof vent (60% of the emissions) and fugitive emissions (40% of the emissions) for 12 hours per day, 365 days per year.

Since Perchloroethylene must be phased out of use by January 1, 2023, the cancer risks were calculated assuming 10 years of exposure (2013 - 2022). The maximum cancer risks were calculated for a child exposure (using age sensitivity factors) and an adult exposure (age sensitivity factor of 1). The maximum child cancer risk is 0.75 per million

and the adult cancer risk is 0.09 per million. Acute and chronic hazard indexes were also calculated and are included in a summary table. These were well below 1.0 and therefore considered ***less than significant***.

Table 6 Thresholds of Significance – Stationary Sources – Cancer and Non-Cancer (Chronic and Acute) Hazard Indices

Description	Screening Value	Thresholds	Exceeds Threshold?
PM2.5 Concentration	0.0982 ug/m3	0.3 ug/m^3	No
Cancer Risk	.75 in a million	10 in a million	No
Chronic Non-cancer Hazard Index	.077	>1	No
Acute Non-cancer Hazard Index	0.77	>1	No

Cumulative Air Contaminant Exposure

A project would have a significant cumulative impact if the total of all past, present, and foreseeable future sources within a 1,000 foot radius (or beyond where appropriate) from the fence line of a source, or from the location of a receptor, plus the contribution from the project, exceeds the following:

- Non- compliance with a qualified Community Risk Reduction Plan;
- An excess cancer risk levels of more than 100 in one million or a chronic hazard index greater than 10 for TACs; or
- 0.8 µg/m3 annual average PM2.5.

This analysis used anticipated cumulative traffic conditions and the predicted risk reflecting the cumulative risk from all sources near the site.

Table 7 Cumulative Thresholds of Significance - Cumulative Air Contaminant Exposure – All Sources

Thresholds of Significance Cumulative Air Contaminant Exposure – All Sources Cancer and Non-Cancer (Chronic and Acute) Hazard Indices			
Description	Screening Value	Thresholds	Exceeds Threshold?
PM2.5 Concentration	0.1682 ug/m3	0.8 ug/m^3	No
Cancer Risk	5.75 in a million	100 in a million	No

Table 6 shows the cumulative cancer risk and PM2.5 concentrations associated with each source affecting the project site. The sum of impacts from cumulative sources (i.e., sources within 1,000 feet of the project) is below the thresholds used by BAAQMD.

Emissions Due to Construction Activity

Construction of the project would result in the temporary generation of NOx and PM_{10} emissions. Short-term air quality impacts are mostly due to dust (PM_{10}) generated by construction and development activities, and emissions from equipment and vehicle engines (NOx) operated during these activities. Dust generation is dependent on soil type and soil moisture, as well as the amount of total acreage actually involved in clearing, grubbing and grading activities. Clearing and earthmoving activities comprise the major source of construction dust generation, but traffic and general disturbance of the soil also contribute to the problem. Sand, lime or other fine particulate materials may be used during construction, and stored on-site. If not stored properly, such materials could become airborne during periods of high winds. The effects of construction activities include increased dust fall and locally elevated levels of suspended particulates. PM_{10} is considered unhealthy because the particles are small enough to inhale and damage lung tissue, which can lead to respiratory problems. PM_{10} emissions during project construction can be reduced through compliance with institutional requirements for dust abatement and erosion control. The effect is ***less than significant with mitigation.***

Carbon Monoxide Hotspots

The BAAQMD CEQA Air Quality Guidelines indicate that project analyses should follow the University of California Davis Transportation Project-Level Carbon Monoxide Protocol (CO Protocol). According to the CO Protocol, intersections with Level of Service (LOS) E or F require detailed analysis. A project contributing to CO concentrations exceeding the California Ambient Air Quality Standard of 9 parts per million (ppm) averaged over 8 hours and 20 ppm for 1 hour would be considered to have a significant impact.

Under *Existing Conditions,* all study intersections are operating at level of service (LOS) D or better during weekday peak hours, and LOS C or better during Saturday peak hours. These existing service levels meet current County of Alameda LOS standards.

Under *Existing plus Approved Projects Conditions,* with the addition of traffic for nearby County-approved projects, all study intersections are expected to continue operating at an acceptable LOS D or better during all peak hours, with minor increases in average delay.

Under *Existing plus Approved Projects plus Proposed Project Conditions,* all study intersections are expected to continue operating acceptably at LOS D or better during all peak hours, just as under Existing plus Approved Projects Conditions, with minor changes in average vehicle delay. Therefore, no mitigations due to project traffic are necessary at the study intersections.

No CO hotspots are anticipated as a result of traffic generated emissions by the proposed project in combination with existing or cumulative traffic. Therefore, the mobile-related emissions from the project are not anticipated to contribute substantially to an existing or projected air quality violation and would not expose sensitive receptors to substantial pollutant concentrations. Impacts would be ***less than significant***.

Demolition

The existing structures on all four developed parcels will be demolished before redevelopment of the site to accommodate the Ashland Family Housing project. Please see the 'Hazards and Hazardous Materials' section for a discussion of materials that may be disturbed during demolition of the existing structures. Source documentation: (19) (20) (21) (22)

Conclusions

Toxic Air Contaminates (TAC)

Mobile Sources

Under the BAAQMD CEQA Air Quality Guidelines, an incremental risk of greater than 10 cases per million from a single source at the Maximally Exposed Individual (MEI) would result in a significant impact. Based on the air quality modeling discussed above, cancer risks would be considered less-than-significant for 70-year residential exposures.

The total cancer risk for all sources of roadway toxic air contaminants is 5.04 in a million for all compounds (DPM and organic TACs) would also be ***less than the significant***.

Potential non-cancer health effects due to chronic exposure to DPM were estimated based on the BAAQMD screening tables (Link 430) at 10 feet from SR 185 and 20 feet building height. Thus, the Hazard Index (HI) would be ***less than significant*** for the criterion of a HI greater than 1.0. Source documentation: (23)

Stationary Sources

Since Perchloroethylene must be phased out of use by January 1, 2023, the cancer risks were calculated assuming 10 years of exposure (2013 - 2022). The maximum cancer risks were calculated for a child exposure (using age sensitivity factors) and an adult exposure (age sensitivity factor of 1). The maximum child cancer risk is 0.75 per million and the adult cancer risk is 0.09 per million. Acute and chronic hazard indexes were also calculated and are included in a summary table. These HIs were well below 1.0 and therefore considered ***less than significant***. Source documentation: (23)

Operational Criteria Air Pollutant and Precursor Emissions Analysis

There would be an incremental increase in Operational Air Pollutant Precursor Emissions. However the amount does not rise to the level of significance per the BAAQD CEQA Guidelines. The effect is ***less than significant***. Source documentation: (23)

Construction Emissions

Construction of the project would result in the temporary generation of NOx and PM_{10} emissions. Short-term air quality impacts are mostly due to dust (PM_{10}) generated by construction and development activities, and emissions from equipment and vehicle engines (NOx) operated during these activities. Dust generation is dependent on soil type and soil moisture, as well as the amount of total acreage actually involved in clearing, grubbing and grading activities. Clearing and earthmoving activities comprise the major source of construction dust generation, but traffic and general disturbance of the soil also contribute to the problem. Sand, lime or other fine particulate materials may be used during construction, and stored on-site. If not stored properly, such materials could become airborne during periods of high winds.

The effects of construction activities include increased dust fall and locally elevated levels of suspended particulates. PM_{10} is considered unhealthy because the particles are small enough to inhale and damage lung tissue, which can lead to respiratory problems. PM_{10} emissions during project construction can be reduced through compliance with institutional requirements for dust abatement and erosion control. The effect is ***less than significant with mitigation***. Source documentation: (23)

Carbon Monoxide Hotspots

No CO hotspots are anticipated as a result of traffic generated emissions by the proposed project in combination with existing or cumulative traffic. Therefore, the mobile-related emissions from the project are not anticipated to contribute substantially to an existing or projected air quality violation and would not expose sensitive receptors to substantial pollutant concentrations. Impacts would be ***less than significant***. Source documentation: (23)

e) Odors

The construction of the project would not be expected to create a source of any objectionable odors. There is ***no impact*** in this regard. Source documentation: (23)

Mitigations

The following are Conditions of Approval that will bring the temporary degradation of air quality during construction to a level of less than significant:

Air Quality

Ongoing throughout site preparation and construction:

AQ1. Water all active construction areas as needed to minimize dust;

AQ2. Cover all trucks hauling soil, sand, and other loose materials;

AQ3. Apply water as needed, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at the construction site;

AQ4. Sweep daily (using water sweepers, as necessary) all paved access roads, parking areas and staging areas at construction site as directed by the County Engineer; and

AQ5. Sweep streets as necessary (with water sweepers) if visible soil material is carried onto adjacent public streets, as directed by County Engineer.

IV. *BIOLOGICAL RESOURCES* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?		X		
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?			X	
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?			X	
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?		X		
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?			X	
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?			X	

Setting

In November 2012, a biological resources site reconnaissance was performed by WRA Environmental Consultants for the project (Study Area) to address the Study Area's potential to include both 1) sensitive vegetation and aquatic communities and 2) habitat sufficient to support special-status plant and wildlife species. The results of the study follow.

Study Area

The project is an infill development in an urban area. The project parcels are improved. The proposed project will include the development of 85 affordable rental apartments. The project includes the removal of the structures currently on-site, and the construction of mixed use residential and commercial space. Based on adjacent land-use and current conditions, the Study Area appears to have been developed no less than 50 years ago. The Study Area currently includes a mobile home park, three individual residences, and several outbuildings. Development has resulted in an impermeable layer (i.e. asphalt), likely six inches to two feet deep, which is underlain by Danville silty clay

loam. Due to the impermeable layer, most surface water which falls on-site flows offsite to be collected by the San Lorenzo municipal water system.

Regulations

Sensitive Biological Communities

Sensitive biological communities include habitats that fulfill special functions or have special values, such as wetlands, streams, or riparian habitat. These habitats are protected under federal regulations such as the Clean Water Act; state regulations such as the Porter-Cologne Act, the California Department of Fish and Game (CDFG) Streambed Alteration Program, and the California Environmental Quality Act; or local ordinances or policies such as city or county tree ordinances, Special Habitat Management Areas, and General Plan Elements.

Special-Status Plant and Wildlife Species

Special-status species include those plants and wildlife species that have been formally listed, are proposed as endangered or threatened, or are candidates for such listing under the federal Endangered Species Act (ESA) or California Endangered Species Act (CESA). These acts afford protection to both listed and proposed species. In addition, California Department of Fish and Game (CDFG) Species of Special Concern, which are species that face extirpation in California if current population and habitat trends continue, U.S. Fish and Wildlife Service (USFWS) Birds of Conservation Concern, and CDFG special-status invertebrates, are all considered special-status species. Although CDFG Species of Special Concern generally have no special legal status, they are given special consideration under the California Environmental Quality Act (CEQA). In addition to regulations for special-status species, most birds in the United States, including non-status species, are protected by the Migratory Bird Treaty Act of 1918. Under this legislation, destroying active nests, eggs, and young is illegal. Plant species on California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (Inventory) with California Rare Plant Ranks (Rank) of 1 and 2 are also considered special-status plant species and must be considered under CEQA. Rank 3 and Rank 4 species have little or no protection under CEQA.

Preservation Plans and Policies

There is no Habitat Conservation Plan or similar habitat conservation plan for the project area.

Impacts

On November 5, 2012 WRA Inc. (WRA) conducted a site visit of the Study Area. Prior to the site visit, background literature was reviewed to determine potential presence of sensitive vegetation types, aquatic communities, and special-status plant and wildlife species. The Study Area was traversed on foot by a biologist familiar with vegetation and aquatic communities and special-status species known from Alameda County. All vegetation and aquatic communities were mapped in the field.

b) and c) Biological Communities

There are no wetlands, waterways, creeks, vernal pools, coastline or riparian habitat on the subject parcels. Source documentation: (25) (29) (30)

The majority of the Study Area is developed, including landscaped areas (approximately 2.21 acres). The developed area is primarily devoted to mobile home accommodations, though it also includes three permanent homes, a covered garage area, and several non-habitable “outbuildings”. The remainder of the developed area is devoted to paved roads and driveways. Remainder of the Study Area features landscaped areas are dominated by a variety of common invasive herbs and vines, including English ivy (*Hedera helix*), bull mallow (*Malva nicaeensis*), bristly ox-tongue

(*Helminthotheca echioides)*, and prickly lettuce (*Lactuca serriola*), as well as non-native ornamental trees and shrubs.

Twelve special-status plant species have been recorded within five miles of the Study Area. No special-status plant species were observed in the Study Area during the site assessment. California seablite (*Suaeda californica*), Congdon's tarplant (*Hemizonia parryi ssp. congdonii*), Contra Costa goldfields (*Lasthenia conjugens*), Diablo helianthella (*Helianthella castanea*), Santa Cruz tarplant (*Holocarpha macradenia*), alkali milk-vetch (*Astragalus tener var. tener*), big-scale balsamroot (*Balsamorhiza macrolepis*), fragrant fritillary (*Fritillaria liliacea*), hairless popcorn-flower (*Plagiobothrys glaber*), most beautiful jewel-flower (*Streptanthus albidus ssp. peramoenus*), robust monardella (*Monardella villosa ssp. globosa*), and woodland woolly-threads (*Monolopia gracilens*) do not have the potential to occur in the Study Area due to:

- Specific edaphic conditions, such as alkali soils, are absent;
- Specific hydrologic conditions, such as brackish tidal, are absent;
- Common plant species and vegetation community are absent;
- The Study Area is below the known elevation range.
- The land use and disturbance has reduced the seed bank of most or all native species.

Therefore, the impacts to these biological communities are considered to be ***less than significant***.

a) and d) Special-Status Wildlife Species

Of the special-status wildlife species whose occurrences are tracked by the California Natural Diversity Database or CNDDB, 17 species have been recorded within five miles of the Study Area. No special-status wildlife species were observed in the Study Area during the site assessment. Most of the special-status species known from the vicinity occur in specific, native habitat types that do not occur within the Study Area (e.g., tidal wetlands, perennial ponds). Based on review of CNDDB and other literature, two special-status wildlife species have a moderate potential to occur in the Study Area. Neither species is listed under the federal or California Endangered Species Acts. The species with potential to occur are discussed in more detail below.

White-tailed kite (Elanus leucurus), CDFG Fully Protected Species

White-tailed kite occurs in low elevation grassland, agricultural, wetland, oak woodland, and savannah habitats. Riparian zones adjacent to open areas are also used. Vegetative structure and prey availability seem to be more important than specific associations with plant species or vegetative communities. Lightly grazed or ungrazed fields generally support large prey populations and are often preferred to other habitats. Kites primarily feed on small mammals, although, birds, reptiles, amphibians, and insects are also taken. Nest trees range from single isolated trees to trees within large contiguous forests.

Although this species is not known to occur within five miles, the Study Area is within the known range of this species and suitable nesting habitat is present on-site. Although the Study Area and immediate surrounds are completely developed, high quality foraging habitat is located approximately one-mile north of the Study Area – well within the daily commuting distance for this species. White-tailed kite has a moderate potential to occur within the Study Area.

Pallid Bat (Antrozous pallidus), CDFG Species of Special Concern, Western Bat Working Group (WBWG) High Priority

Pallid bats are distributed from southern British Columbia and Montana to central Mexico, and east to Texas, Oklahoma, and Kansas. This species occurs in a number of habitats ranging from rocky arid deserts to grasslands, and into higher elevation coniferous forests. They are most abundant in the arid Sonoran life zones below 6,000 feet, but have been found up to 10,000 feet in the Sierra Nevada. Pallid bats often roost in colonies of between 20 and several hundred individuals. Roosts are typically in rock crevices, tree hollows, mines, caves, and a variety of man-made

structures, including vacant and occupied buildings. Tree roosting has been documented in large conifer snags (e.g. ponderosa pine), inside basal hollows of redwoods and giant sequoias, and within bole cavities in oak trees. They have also been reported roosting in stacks of burlap sacks and stone piles. Pallid bats are primarily insectivorous, feeding on large prey that is taken on the ground, or sometimes in flight. Prey items include arthropods such as scorpions, ground crickets, and cicadas.

The structures located within the Study Area that are slated for demolition could potentially host roosting bats. Thermal conditions, egress and access to resources would influence the number of bats and type of roost that could potentially be present. Because of the extent of urbanization surrounding the Study Area, access to prey and water in the immediate vicinity of the Study Area is limited, however, high quality foraging habitat and open water for drinking is present approximately one-mile to the north. This species has a moderate potential to occur.

In addition to the special-status species discussed above, a variety of non-special-status native birds protected under the federal Migratory Bird Treaty Act have the potential to nest within the Study Area. Suitable bird nesting substrates include trees and other vegetation, as well as buildings. The legal protection of these species includes their eggs and/or chicks during the nesting period. The mitigations listed at the end of this section bring impacts to a level of ***less than significant with mitigation.***

e) and f) Preservation Plans and Policies

There is no Habitat Conservation Plan or similar habitat conservation plan for the project area. The nearest channel of water is the Estudillo Canal, an engineered drainage channel located about a quarter mile northwest of the project site. The Canal flows westerly to the Bay and is almost entirely concrete lined with very limited habitat value. The watershed upstream from the Canal nearest the project site extends over more than a square mile, and is characterized by highly urban and commercial land uses. Runoff from the site during and after construction would have a very limited effect on habitat downstream on Estudillo Canal, and standard requirements for protection of storm-water quality and runoff reduction (see Section VIII, Hydrology and Water Quality) are expected to minimize such effects to a ***less than significant*** level. Source Documentation: (24) (25) (26) (27) (28)

Summary of Conclusions

The Study Area is composed entirely of developed habitat. No sensitive plant communities or jurisdictional waters were identified within the Study Area. Twelve special-status plant species have been documented within five miles of the Study Area; however, none have any potential to occur within the Study Area.

Two special-status wildlife species and non-special-status bird species have the potential to occur within the Study Area. The developed/landscaped communities are not considered sensitive communities; therefore, there are no further recommendations and the project will have no impacts to sensitive biological communities.

The Study Area does not have the potential to support special-status plant species; therefore, there are no further recommendations, and the project will have no impacts to special-status plant species.

Two special-status wildlife species have the potential to occur within the Study Area on a nonincidental basis. The assessment determined that one special-status bird species, white-tailed kite, is unlikely to use the Study Area for foraging but may use it for nesting. Additionally, other non-special-status bird species nesting within the Study Area are protected by the Migratory Bird Treaty Act (MBTA); therefore, the mitigations recommended are prescribed to avoid impacts to nesting birds. Source documentation: (30)

Mitigations

Following the mitigation measures below will bring the potential impacts to special-status wildlife species to ***less than significant with mitigation***.

BR1. Non-breeding season (Approximately September 1 to January 31): WRA recommends that initial vegetation removal, clearing and grubbing be initiated in the nonbreeding season, defined as September 1 to January 31. During this period breeding is not occurring and surveys are not required. However, if nesting birds are encountered during work activities in the non-breeding season, disturbance activities within a minimum of 50 feet of the nest should be postponed until the nest is abandoned or young birds have fledged.

BR2. Breeding season (Approximately February 1 to August 31): Between February 1 and August 31, it is recommended that pre-construction breeding bird surveys be conducted by a qualified biologist prior to and within 10 days of any initial ground disturbance activities. Surveys should be conducted within all suitable nesting habitat within 250 feet of the grading activity when feasible. Active nests of Migratory Bird Treaty Act (MBTA) species identified at that time should be protected by a 50-foot radius exclusion zone. Active raptor or special-status species' nests should be protected by a buffer with a radius of 200 feet. California Department of Fish and Game (CDFG) recommends a minimum 500 foot exclusion buffer be established around active white-tailed kite nests. Survey results are valid for 14 days from the survey date. Should ground disturbance commence later than 14 days from the survey date, surveys should be repeated. If no breeding birds are encountered then work may commence as planned. Exclusion zone sizes may vary depending on habitat characteristics and species, and are generally larger for raptors and colonial nesting birds. Each exclusion zone would remain in place until the nest is abandoned or all young have fledged. The assessment also determined that one special status bat species could potentially use the structures within the Study Area as roosting habitat. Additionally, California Fish and Game Code protects non-special-status roosting bats. The removal or demolition of on-site structures could potentially affect roosting bats. WRA prescribes the following measures to avoid impacts to roosting bats.

BR3. Non-roosting Season (Approximately September 1 to October 31): WRA recommends that any initial demolition and removal of on-site structures be conducted during the non-roosting season. During this period, no preconstruction emergence surveys are required. If evidence of roosting is observed during work activities, consultation with a qualified bat biologist to determine an appropriate exclusion buffer is recommended.

BR4. Hibernation Season (Approximately November 1 to March 31): WRA recommends internal searches of all structures slated for removal or demolition to determine presence/absence of bat hibernation roosts. All active roosts identified during surveys should be protected by a buffer to be determined by a qualified bat biologist. The buffer will be determined by the type of bat observed, sensitivity of roost, type of potential disturbance, etc. Each exclusion zone would remain in place until the end of the hibernation season or until the bats leave on their own accord. If no active roosts are identified then work may commence as planned. Survey results are valid for 30 days from the survey date. Should work commence later than 30 days from the survey date, surveys should be repeated.

BR5. Maternity Roosting Season (Approximately April 1 to August 31): WRA recommends night-time evening emergence surveys and/or internal searches of all structures slated for removal or demolition to determine presence/absence of bat maternity roosts. All active roosts identified during surveys should be protected by a buffer to be determined by a qualified biologist. The buffer will be determined by the type of bat observed, sensitivity of roost, type of potential disturbance, etc. Each exclusion zone would remain in place until the end of the maternity roosting season. If no active roosts are identified then work may commence as planned. Survey results are valid for 30 days from the survey date. Should work commence later than 30 days from the survey date, surveys should be repeated.

BR6. Consultation with CDFG may be warranted to determine appropriate mitigation measures if roosts are disturbed or destroyed.

V. *CULTURAL RESOURCES* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?		x		
b) Cause a substantial adverse change in the significance of an archeological resource pursuant to §15064.5?		x		
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		x		
d) Disturb any human remains, including those interred outside of formal cemeteries?		x		

Setting

Introduction

The analysis presented in this chapter focuses on historic resources, primarily on the architectural history of the site and prehistoric cultural resources (archaeology) of the site. The Historic Resources Analysis contained in this chapter is based upon the evaluation of the project site conducted by AEM Consulting, the Northwest Information Center and Tom Origer & Associates, which addresses the impacts of the proposed project (see Appendix C).

Regulatory Setting

Federal: National Historic Preservation Act of 1966 (As Amended)

The National Historic Preservation Act (NHPA) of 1966 establishes a program to preserve historic properties throughout the U.S. and, among other things, authorizes the Secretary of the Interior to expand and maintain a National Register of Historic Places composed of districts, sites, buildings, structures, and objects significant in American history, architecture, archaeology, engineering, and culture. The National Register is administered by the National Park Service, which is part of the U.S. Department of the Interior.

In general, properties listed in the Register include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture, and that:

a. Are associated with events that have made a significant contribution to the broad patterns of U.S. history; or

b. Are associated with the lives of persons significant in the past; or

c. Embody distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

d. Have yielded, or may be likely to yield, information important in prehistory or history.

In general, cemeteries, birthplaces, or graves of historical figures, properties owned by religious institutions or used for religious purposes, structures that have been moved from their original locations, reconstructed historic buildings, properties primarily commemorative in nature, and properties that have achieved significance within the past 50 years shall not be considered eligible for the National Register.

California Register of Historic Places

In order for a resource to meet the criteria for listing in the California Register of Historical Resources, it must satisfy all of the following three provisions:

1. It meets one or more of the following four criteria of significance:

    - The resource is associated with events or patterns of events that have made a significant contribution to the broad patterns of local and regional history;

    - The resource is associated with the lives of persons important to the nation or to California's past;

    - The resource embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master, or possesses high artistic values; or

    - The resource has the potential to yield information important to the prehistory or history of the State or the nation (this criterion applies primarily to archaeological sites).

2. The resource retains historic integrity (defined below); and

3. It is fifty years old or older (except for rare cases where it can be demonstrated that sufficient time has passed to understand the historical importance of the resource).

The California Register regulations are similar to the criteria used by the National Park Service for the National Register of Historic Places. Any resource listed on or formally determined to be eligible for listing on the National Register is automatically listed on the California Register.

The California Register defines "integrity" as "the authenticity of a property's physical identity, evidenced by the survival of characteristics that existed during the property's period of significance." A property must, therefore, retain enough of its historic character or appearance to be recognizable as an historical resource. California Register regulations specify that integrity is a quality that applies to historic resources in seven ways: location, design, setting, materials, workmanship, feeling, and association. A property must retain most of these qualities to possess integrity.

HISTORIC CONTEXT AND SETTING

Project Parcels

The subject parcel located at 16309 Kent Avenue, San Lorenzo, CA (APN 080C-0479-023-02) is the largest of the three project parcels and contains a mobile home park. Buildings on this parcel included two flat-roofed utility sheds and a small, flat roofed residence. All are wood framed and clad with stucco. These buildings appear to have been constructed in the 1950s. 16 mobile homes are located on the site. The parcel located at 16331 Kent Avenue, San Lorenzo, CA (APN 080C-0479-022-00) contains a one story, H-shaped residence that fronts on Kent Avenue. The house was constructed in 1958. It has a hipped roof and is a frame structure clad in stucco. The front of the house has a slightly recessed stoop that runs between the two side wings and is sheltered by the principal roof. Windows

are primarily one-over-one, double-hung, wood sashes. There is one porthole-style window at the front. At the rear of the house are a garage/shed, a manufactured home, and a late 19th century barn.

The barn sits on a large parcel surrounded by residential development, including mobile homes and multi-family dwellings. The two-story structure has rectangular plan with a saltbox roof formed by a one-story addition on the west elevation that continues the pitch of the barn's main gable roof. Wood horizontal boards clad the barn, and the eaves overhang. The façade faces north and has two entrances at the first story, three smaller rectangular openings at the second story, and an arched opening in the gable, each with diagonal wood doors. Similar openings are located throughout the building. (The description is based on a photograph taken in 1997 as part of the "Preliminary Cultural Resources Survey: Ashland & Cherryland Districts, San Lorenzo, Alameda County, California" conducted by Stiegel & Strain, Architects.

In May 2011 the barn was re-evaluated by Origer & Associates. Origer notes the two-story barn has been converted to a residence on the second floor and a utility/storage room on the first floor. The conversion resulted in significant alterations, including installation of modern windows and doors, walling off of barn doors and other openings, and installation of an overhead door. Origer concludes, the barn lacks sufficient integrity of design, materials, workmanship, setting, or feeling to be considered eligible for inclusion on the National Register or the California Register. None of the other buildings on the subject parcels appear eligible for the National Register or the California Register.

On December 6, 2012, the Parks, Recreation and Historic Commission met to discuss the disposition of the barn and its historic status. The architectural historian from Origer & Associates was present to discuss the barn in great detail, along with members of the commission. At the hearing, the Commission concurred with Origer's historic evaluation, but requested that the building materials from the barn be salvaged for reuse. Source documentation: (15)

Subject parcel located at 16325 Kent Avenue San Lorenzo, CA (APN 080C-0479-023-01) is a land-locked, L-shaped parcel that contains a 1940s dwelling. This house is a one-story, hipped-roof frame structure clad in stucco. Windows appear to be original, aluminum sashes in a variety of configurations.

Subject parcel located at 16327 Kent Avenue San Lorenzo, CA (APN 080C-0479-021) is a single family residence built in 1949. This parcel is part of a 1950 housing development west of the project area that fronts on Santa Ana Street. These are modest, post-war homes that, as individual properties, are unlikely to meet National Register eligibility criteria. There is potential for a historic district to be established along Santa Ana Street. Source Documentation: (11) (31)

Adjacent Parcels

The project area is adjacent to 12 parcels. A park and a vacant parcel are north and northeast of the project area, respectively. Parcels along the west side are single-family dwellings built during the early to mid-20th century. South of the project area, is a large apartment complex constructed in 1984, and a retail market built in 1955. Buildings along the west side of the project area face East 14th Street, away from the project area, and were built between 1910 and 1964. Two are commercial properties and one is a house that has been converted to an office. Buildings older than 50 years are addressed below.

The 1950 housing development west of the project area fronts on Santa Ana Street. These are modest, post-war homes that, as individual properties, are unlikely to meet National Register eligibility criteria. There is potential for a historic district to be established along Santa Ana Street.

Parcel 080C-0479-020 contains a one-story, Queen Anne house constructed at the turn of the 20th century. This house has a hipped roof with a front-facing, gabled wing that features a cutaway bay. The porch has turned posts for support and spindle decoration along the top. The roof/wall junction is marked by decorative dentils. This house has excellent integrity of design, materials, and workmanship. Development in this area has impacted the historical setting.

Parcel 080C-0479-007 has a 1930s vernacular house that has been converted to an office. The house is a one-story, cross-gabled, frame building clad with stucco. This is a common house type with no architectural distinction and it is unlikely that this house would meet National Register eligibility criteria.

Parcel 080C-0479-006-09 contains a 1910 commercial building used by a glass tinting company. This building has a shed roof and the facade is a parapetted false front. The building is of frame construction and is clad primarily with corrugated metal panels. Changes over the years have been piecemeal and leave the building with an awkward appearance. It is unlikely that this building would meet National Register eligibility criteria.

Project Area Description

Ashland, formerly San Leandro South, is a census designated place in Alameda County, California. The population was 20,793 at the 2000 census. Ashland has a total area of 1.8 square miles, all of it land. Alameda County occupies most of the East Bay region of the San Francisco Bay Area. The unincorporated communities in Alameda County are governed directly by the county. Alameda County has six major unincorporated communities that qualify as census designated places, including Ashland, Cherryland and San Lorenzo. Together, Ashland and Cherryland comprise one of the most urbanized areas of the unincorporated portion of Alameda County, with a combined total population of approximately 38,000. (Alameda County Planning Department, Adopted by the Alameda County Board of Supervisors June 1, 1995) The two communities are within an equal commute to many of the employment centers of the bay area, both by freeway and transit. The project site is located roughly three miles from the San Francisco Bay shoreline, the city of Hayward and San Leandro. Across the bay, San Francisco lies approximately 17 miles to the west.

The unincorporated community of Ashland occupies the triangular-shaped area bounded by Hesperian Blvd/ Bayfair Drive on the west, San Lorenzo Creek on the south, and I-580 on the east. Ashland was once a major truck farm and greenhouse area, although little of its agricultural past is evident today. The community is mostly residential, with homes ranging from century-old cottages to recent subdivisions. Some of the housing consists of 1950s-era tracts similar to those in San Lorenzo and Washington Manor. However, other parts of the area were developed to County standards, with large lots, narrow streets, and no sidewalks or curbs.

The area appears to be a patchwork of older and newer development, sometimes with little continuity from one block to the next. Some of the older housing is in poor condition and is in need of rehabilitation. Ashland also has several large pockets of higher density housing. Two and three-story apartment blocks, many dating from the 1960s, are located east of East 14th Street between 159th and 165th Avenues. Pockets of higher density housing also exist along Ashland Avenue and San Lorenzo Creek. The quality of this housing is extremely variable. The City of San Leandro is particularly interested in County programs that improve blighted residential properties in Ashland and address the safety and security issues that have arisen at some of these properties.

The County's land use plan designates the two-mile East 14th Corridor southeast of Bayfair Drive as "General Commercial or Medium/High Density Residential". This is the County's equivalent to San Leandro's "Corridor Mixed Use" designation. It allows either residential, commercial, or mixed use development, with densities of up to about 40 units per acre. The Ashland-Cherryland Business District Specific Plan includes further standards for how this corridor should be developed and includes an action plan to finance and build specific public improvements. The Ashland Business District is also contained in a Joint City-County Redevelopment Project area that extends into San Leandro along East 14th Street.

Early History

The study area is located within the territory of the Chochenyo tribelet of the Costanoan Indians (also known as the Ohlone). Their settlement was located south of San Lorenzo Creek, possibly within the study area. The exact location is not known, but it may be linked to CA-Ala-6, a Native American village site known to be within the study area along San Lorenzo Creek near the Southern Pacific Railroad (formerly Central · Pacific Railroad) tracks. Source documentation: (13)

Northwest Information Center

A California Historic Resource Information System (CHRIS) records search was performed for the site by the Northwest Information Center. Archival research found that there had been no previous archaeological survey of the project area. There are several known resources within a one-mile radius. One resource is recorded within the project area. This resource is a late-19th century barn recorded by Carey & Company in 2008. At that time, the barn was considered significant at the local level. The barn was heavily modified over the years and used as common laundry room and maintenance storage shed for the mobile home park.

There are no reported ethnographic sites within or near the project area (Kroeber 1925; Levy 1985:485). Review of historical maps found no evidence of buildings or structures on the project parcels (Higley 1857; Thompson & West 1878; USGS 1896, 1914, 1915, 1950). Based on the results of the prefield research, it was anticipated that prehistoric and, to a lesser degree, historical resources could be found within the study area. Prehistoric archaeological site indicators expected to be found in the region include but are not limited to: obsidian and chert flakes and chipped stone tools; grinding and mashing implements such as slabs and hand stones, and mortars and pestles; and locally darkened midden soils containing some of the previously listed items plus fragments of bone, shellfish, and fire affected stones. Historical site indicators generally include buildings and structures, fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, and dumps).

Native American Consultation

The Native American Heritage Commission was contacted regarding sacred lands on or near the project vicinity. The Native American Heritage Commission replied on May 5, 2011 that a records search failed to indicate the presence of Native American cultural resources in the immediate project area. A list of tribal contacts was provided by the Commission and subsequently, a letter was sent to each contact regarding the project and requesting information from their respective communities regarding sacred lands or other cultural sites within the study area that might be impacted by project activities.

To date, one response has been received. Ms. Ann Marie Sayers of the Indian Canyon Mutsun Band of Coastanoan expressed concern about the general archaeological sensitivity of the area, since the project is located within the vicinity of San Lorenzo Creek. In the event that cultural resources including human remains are encountered during Construction, Ms. Sayers asked to be notified. She is considered an interested party to this action. Source documentation: (11) (32)

Impacts

a) Built Environment

One resource is recorded within the project area. This resource is a late-19th century barn recorded by Carey & Company in 2008. At that time, the barn was considered significant at the local level. In May 2011 the barn was reevaluated by Origer & Associates. Origer notes the two-story barn has been converted to a residence on the second floor and a utility/storage room on the first floor. The conversion resulted in significant alterations, including installation of modern windows and doors, walling off of barn doors and other openings, and installation of an overhead door. Origer concludes the barn lacks sufficient integrity of design, materials, workmanship, setting, or feeling to be considered eligible for inclusion on the National Register or the California Register. The Parks, Recreation and Historic Commission concurred with this finding on December 6, 2012. However, the Commission requested that the timbers from the barn be salvaged and either sold on the private market or made available for re-use through non-profit organizations such as StopWaste.org. None of the other buildings on the subject parcels appears eligible for the National Register or the California Register.

None of the adjacent properties are historic buildings, or designated as landmarks nor are they listed on the National Register of Historic Places. None of the structures in the Area of Potential Effects appear to be eligible for listing in the national Register of Historic Places. No prehistoric or historical archaeological sites were identified within the study area and no resource-specific recommendations are warranted.

The project area is adjacent to 15 parcels. A park and a vacant parcel are north and northeast of the project area, respectively. Parcels along the west side are single-family dwellings built during the early to mid-20th century. South of the project area, is a large apartment complex constructed in 1984, and a retail market built in 1955. Buildings along the west side of the project area face East 14th Street, away from the project area, and were built between 1910 and 1964. Two are commercial properties and one is a house that has been converted to an office. Buildings older than 50 years are addressed below. Addresses 1084, 1098 and 1116 Santa Ana Street were all built in 1950. The 1950 housing development, which lies west of the project area, fronts on Santa Ana Street. These are modest, post-war homes that, as individual properties, are unlikely to meet National Register eligibility criteria Impacts to historic resources are considered ***less than significant with mitigation.*** Source Documentation: (2) (11) (13) (31) (33) (34)

b) through d) Archeology

Archival research included an examination of historical maps to gain insight into the nature and extent of historical development in the general vicinity, and especially within the study area. Archival research found that there had been no previous archaeological survey of the project area. There are several known resources within a one-mile radius. The study conducted by Tom Origer & Associates found that there are no archaeological resources that will be affected by the project. There is a slight possibility that buried archaeological deposits could be encountered during construction and recommendations for such an occurrence are included as conditions of approval of the project. Given that the possibility exists that undiscovered archeological resources or buried remains may be uncovered, but that not until project construction would such resources be discovered, implementation of the conditions of approval adequately mitigate the impact of the project to ***less than significant with mitigation***. Source Documentation: (2) (11) (13) (31) (33) (34)

Mitigations

Cultural Resources

Demolition

HR2. Timbers and wood from the barn shall be salvaged and either sold on the private market or made available for re-use through non-profit organizations such as StopWaste.org at the request of the Parks, Recreation and Historic Commission.

Cultural Resource Protection Procedures. The Applicant or the contractor shall provide for grading and trenching crews to implement the following procedures:

CR1. Immediately halt or relocate excavations and contact a qualified archaeologist to inspect the site. If the archaeologist determines that potentially significant archaeological materials or human remains are encountered, the archaeologist must record, recover, retrieve, and/or remove any archaeological materials;

CR2. The archaeologist must study any archaeological resources found onsite and publish data concerning these resources;

CR3. If human remains are found on the site, Applicant must notify the Ohlone Most Likely Descendants, as designated by the California Native American Heritage Commission; the coroner shall be called and the archaeologist shall provide safe and secure storage of these remains while on-site, in the laboratory and otherwise, and shall consult with the Native American representatives regarding either onsite reburial of the remains or other arrangements for their disposition;

CR4. The archaeologist shall provide a copy of documentation of all recovered data and materials found onsite to the regional information center of the California Archaeological Inventory (CAl) for inclusion in the permanent archives, and another copy shall accompany any recorded archaeological materials and data.

CR5. If any historic artifacts are exposed, the archaeologist shall record the data and prepare a report to be submitted to the local historical society.

CR6. Monitoring for these measures must be performed by Applicant on a continual basis during construction. At the completion of work, Applicant will submit a summary of findings to the Planning Director for review and for the final record.

VI. *GEOLOGY AND SOILS* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving:				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.		×		
ii. Strong seismic ground shaking?		×		
iii. Seismic-related ground failure, including liquefaction?		×		
iv. Landslides?			×	
b) Result in substantial soil erosion or the loss of topsoil, creating substantial risks to life, property, or creek/waterways?			×	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?		×		
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?			×	
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				×

Setting

A geotechnical investigation was prepared in May 2011 by Jensen-Van Lienden Associates, Inc. a geotechnical engineering consulting firm. The report presents results of a study of the engineering properties and stratigraphy of soils underlying property at the Kent Avenue Ashland Housing project site in San Lorenzo California. T11e purpose of the study was to characterize the engineering properties and stratigraphy of the soils underlying tl1e site to the extent that we could formulate conclusions concerning the site conditions and recommendations for foundations and for other details oftl1e proposed project relating to geotechnical engineering. To achieve this purpose, the study scope included the following elements.

1. Research
2. Subsurface exploration with test borings and cone penetration tests
3. Soil sampling

4. Laboratory testing
5. Engineering analyses
6. Production of the report

The study was comprised of research for published information about the site geology and seismicity, exploration of the site subsurface conditions, laboratory testing of samples of site subsoils and analyses. Exploration of the site subsurface conditions was conducted with test borings. Five test borings were drilled on May 10, 2011 with 6-inch diameter, truck-mounted, hollow stem and solid stem auger equipment.

Geotechnical Conditions

Jensen-Van Lienden Associates borings indicate that the near surface soil consists of a thin layer of fill, made up of brown very sandy and gravelly sandy clay/clayey sand. The fill rests on stiff to medium stiff, dark gray silty clay. Jensen-Van Lienden Associates test borings indicate that this layer is continuous throughout the site, and ranges in thickness from about I 1/2/feet to perhaps as much as 3 feet. In test borings I and 2, the dark gray silty clay rests on stiff brown silty clay, and tl1en, in turn, by stiff olive gray sil1y clay and stiff mottled, olive gray, orange brown and light gray silty clay. In test borings 3, 4 and 5 tl1e brown silty clay was absent, and the near surface dark gray silty clay rests on interbedded silty and clayey sands with occasional gravel and some sandy clay (in test boring 3). These sandy soils overlie stiff clays similar to those observed in test borings 1 and 2. Groundwater migrated into the open test borings as they were being drilled, and the level to which the accumulated groundwater rose in the borings was measured in some borings after they were completed.

Impacts

Conclusions and Discussion

c) and d) Foundation Support

Aside from the surface dark gray silty clay, the clayey soils underlying the site would be suitable for supporting the project improvements on spread footings. In contrast the sandy soils observed underlying the dark gray clays in test borings 3, 4 and 5 are believed to be potentially liquefiable and are not considered suited for footing support. However, provided that the potential for liquefaction is mitigated, in Jensen-Van Lienden Associates' opinion, footings would be satisfactory foundations throughout the entire site. The liquefaction potential and proposed mitigation are discussed in more detail below.

Estimated static total and differential settlements of footings designed in accordance with the recommendations of the report will be 1 inch or less and ¾ inches or less respectively. Impacts are considered ***less than significant with mitigation.*** Possible seismic settlements are discussed below.

a) i. through iii) Liquefaction

Research indicates that the subject site lies within a seismic hazard (liquefaction) zone as determined in accordance with the Seismic Hazard Mapping Act. As noted above, lenses and layers of granular soils, generally silty and clayey sands with occasional gravels underlie the site.

It is known that sandy soils are susceptible to liquefaction under the right conditions. Liquefaction is the transformation of an initially stable soil that possesses substantial strength and bearing capacity to one resembling a viscous fluid having little or no shear strength and bearing capacity. It occurs when ground vibrations associated with strong earthquake ground motions are transmitted through a site containing susceptible soils.

From a practical standpoint, only granular (sandy) soils that are saturated (i.e. lie below the groundwater table) and having a loose consistency are susceptible to liquefaction. Dense, saturated granular soils, cohesive silts and clays

and all unsaturated soils (those that lie above the groundwater table) are not liquefiable. The clayey soils that underlie the site will not liquefy.

Jensen-Van Lienden Associates evaluated the liquefiability of the sandy layers and lenses that underlie the subject site using the data derived from study and prescriptive procedures. These analyses indicate that, by and large, the granular layers that underlie the site could liquefy if the site is subjected to strong seismic ground motions.

Unless the liquefaction potential of the sandy soils is mitigated, foundation and/or ground failures could follow the onset of liquefaction. Shallow foundations (footings) could experience partial or total loss of load carrying capacity. Other ground failures involving site lateral displacements (lateral spreading) or settlements associated with drainage can follow the onset of liquefaction.

Potential foundation failures associated with liquefaction are possible at the subject site. Judging from borings the lenses or zones of sandy soils that may liquefy during an extreme seismic event are limited to the center and rear of the site, and between depths of 4 feet and 11 feet. Lateral spreading is unlikely, partly because of the limited extent of the liquefied zones and partly because of the flat topography in the vicinity, and partly because the mitigation recommended below would create a non-liquefiable layer above the liquefied zone that would restrain lateral spreading.

Drainage from the liquefied zones would theoretically decrease the volume of the zone of the liquefied soil below the mitigation level slightly, leading to settlements apparent at the ground surface. Using data derived from study, estimated that the post-earthquake settlements from this source would amount to about 1 inch or less. Because nearby areas would not liquefy, this estimate of total settlement would also be a reasonable estimate of the differential settlement. These total and differential settlements are judged to be within a range that is tolerable for the structures that are planned for the site.

In summary, while liquefaction of soils underlying the site is possible, liquefaction would not present a hazard for structures supported on spread footings, provided that the mitigation measure recommended below is implemented. Impacts are considered ***less than significant with mitigation.***

California Building Code Geotechnical Seismic Design Parameters

The site latitude is 37.395 degrees north and longitude 122.115 degrees west. Judging from test borings and laboratory data, and assuming that the site liquefaction susceptibility will be mitigated as recommended, we estimate that the Site Class is D. The short period spectral acceleration is estimated to be 1.959 g and that the one-second period spectral acceleration is 0.758 g.

a) iv.) and b) Landslides and Erosion

The site is flat and not susceptible to landslides or erosion. The risk of landsliding or erosion is considered ***less than significant.*** Source documentation: (35)

e) Septic tanks

The project does not involve septic systems or alternative sewer waste systems; therefore there is ***no impact*** to soils incapable of supporting the use of septic tanks.

Recommendations

Liquefaction

As discussed above, the results of the Geotechnical Engineering Study indicate that the sandy soils encountered in test borings 3, 4 and 5 are potentially liquefiable. The recommendation for mitigating this hazard is by densifying the sands before constructing the project improvements.

One method for densification by compacting the sandy soils is described below. The recommended compaction should be sufficient to increase the sandy soil density to a level where it would not be susceptible to liquefaction related strength loss and would therefore be adequate for foundation support.

There are a variety of other densification procedures that have also proven effective, including vibration based methods, construction of stone columns and others. These procedures are commonly carried out by specialty contractors. If these other procedures are considered, it is suggested that such contractors be consulted for specific proposals for improvement of the sandy soils.

The recommended densification method involves subexcavating the upper portion of the sandy soils, temporarily stockpiling them, and backfilling the excavations with engineered fill. Engineered fill is defined in the Site Preparation and Grading section of the Geotechnical Engineering Study (see Appendix D). The excavated soils should be suitable for the backfill, i.e. they do not require removal from the site and replacement with imported fill. This judgment assumes that the excavated dark gray silty clay soils are thoroughly mixed with the other excavated soils.

Based upon borings, the tentative subexcavation and backfilling depth is estimated to be to be a minimum of 7 feet below existing grade, or to the surface of the underlying silty clay, whichever is less. For preliminary planning purposes, it may be assumed that the entire site will warrant subexcavation and backfilling. Performing additional subsurface exploration of the site with borings and/or cone penetration tests to refine the depth and location of required densification (whether densification is done by conversion of the sandy soils to engineered fill or by other methods) is recommended.

A review of the Geotechnical Study was done by Kleinfelder on November 27, 2012 at the request of Alameda County Public Works Agency (ACPWA). Kleinfelder stated that the report does not adequately address the liquefaction hazard and soil expansion potential of near surface soils in this area and additional information would be required in order to satisfy the State and County requirements. The project geotechnical engineer should adequately address comments provided in the Kleinfelder letter (Project No. 130859) and provide the necessary documents to ACPWA for review and approval. The Mitigation measures for this section are subject to further review and some revisions might be necessary.

For additional recommendations for *Foundations, Slab on Grade Construction, Site Preparation and Grading,* as well as *Site Drainage* and *Construction Observation and Further Services,* please see the attached Geotechnical Engineering Study in its entirety and found in Appendix D.

Source documentation: (35)

Mitigations

The following are Mitigation Measures and Conditions of Approval that apply to this section of the checklist.

Soils and Geotechnical

G3. The geotechnical report including the liquefaction hazard assessment must be reviewed and approved by the County of Alameda prior to issuance of a building permit in conformance with the provisions of the Seismic

Hazard Zones Mapping Act and the Special Publication 117A "Guidelines for evaluating and mitigating seismic hazards in California".

G4. The results of the Geotechnical Study performed by Jensen-Van Lienden Associates, Inc. and dated May 18, 2012, indicate that the sandy soils encountered in several test borings are potentially liquefiable. A review of the Geotechnical Study was done by Kleinfelder on November 27, 2012 at the request of ACPWA (Project No. 130859). Kleinfelder stated that the report does not adequately address the liquefaction hazard in this area: "In order to address the liquefaction hazard at the site, additional information on ground motions, additional laboratory tests, and details of liquefaction analysis are needed. Further discussions on expansion potential of near surface soils are also needed." Project geotechnical engineer should adequately address comments provided in the Kleinfelder letter and provide to ACPWA for review and approval.

VII. *GREENHOUSE GAS EMISSIONS* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			x	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			x	

Setting

Similar to regulated air pollutants, Greenhouse Gas (GHG) emissions and global climate change also represent cumulative impacts. GHG emissions contribute, on a cumulative basis, to the significant adverse environmental impacts of global climate change. Climate change impacts may include an increase in extreme heat days, higher concentrations of air pollutants, sea level rise, impacts to water supply and water quality, public health impacts, impacts to ecosystems, impacts to agriculture, and other environmental impacts. No single project could generate enough GHG emissions to noticeably change the global average temperature. The combination of GHG emissions from past, present, and future projects contribute substantially to the phenomenon of global climate change and its associated environmental impacts.

Impacts

Thresholds of Significance

The Thresholds of Significance for operational-related GHG emissions are: For land use development projects, the threshold is compliance with a qualified GHG Reduction Strategy; or annual emissions less than 1,100 metric tons per year (MT/yr) of CO2e; or 4.6 MT CO2e/SP/yr (residents + employees). Land use development projects include residential, commercial, industrial, and public land uses and facilities. For stationary-source projects, the threshold is 10,000 metric tons per year (MT/yr) of CO2e. Stationary-source projects include land uses that would accommodate processes and equipment that emit GHG emissions and would require an Air District permit to operate. If annual emissions of operational-related GHGs exceed these levels, the proposed project would result in a cumulatively considerable contribution of GHG emissions and a cumulatively significant impact to global climate change. Source documentation: (36)

Table 8 Greenhouse Gases Analysis

Mitigated	CO2 (metric tpy)	CH4 (metric tpy)	N2O (metric tpy)	CO2e (metric tpy)	% of Total
Area Source:	0.27	0.00	0.00	0.28	06.3%
Energy:	35.05	0.00	0.00	35.27	40.98%
Mobile	45.44	0.00	0.00	45.49	52.99%
Water & Wastewater:	1.03	0.06	0.00	2.30	1.98%
Solid Waste:	2.68	0.04	0.00	03.70	3.74%
Total:	84.47	0.10	0.00	87.04	100.00%
BAAQMD Threshold				1,100 (MT CO_2e per year)	
Significance				No	

a) and b) Conclusion

The project would incrementally generate greenhouse gas emissions; however, these emissions would not have a significant impact on the environment. The project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. Impacts would be ***less than significant.*** Source documentation: (23) (37)

VIII. ***HAZARDS AND HAZARDOUS MATERIALS*** Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				x
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?		x		
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			x	
d) Be located on a site which is included on a list of hazardous materials sites complied pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?		x		
e) 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 result in a safety hazard for people residing or working in the project area?				x
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				x
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				x
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				x

Setting

The proposed project entails the construction of affordable housing. According to Google Earth aerial photography of the Site, dated 2010, the Site is situated at an elevation of approximately 40 to 43 feet above mean sea level. The local terrain is relatively flat, sloping very gently towards the east. The property is situated east of San Francisco Bay within the Coast Range geomorphic province. The Coast Range geomorphic province is comprised of a series of northwest-trending mountain ranges and valleys, extending sub-parallel to the San Andreas Fault. The eastern border of the Coast Ranges, in the vicinity of the subject property, is characterized by strike-ridges and valleys comprised of Upper Mesozoic strata (California Geological Survey 2002). Site soils have been characterized by the U.S. Department of Agriculture's Soil Conservation Service as Danville soils; consisting of fine-grained silty clay loam to depths of at least 7 feet The Site is located within the East Bay Plain aquifer system. Based on depth to ground water information for an adjoining property located north/northwest of the Site, ground water occurs at depths of

approximately 6 to 8 feet beneath ground surface. The ground water flow direction was indicated as generally towards the northwest.

Impacts

a) through c) Hazardous Materials Use

The proposed project entails the demolition and new construction of 85 units of affordable housing. Project operations are not anticipated to create a significant hazard to the public or environment through the routine transport, use or disposal of hazardous materials; or create a situation whereby an upset or accident would occur involving the release of hazardous materials; therefore, ***no impact.***

It is possible that equipment used at the site during construction activities could utilize substances considered by regulatory bodies as hazardous, such as diesel fuel and gasoline. However, all construction activities would be required by the County's Standard Conditions of Approval to adhere to recognized Best Management Practices, which provide guidelines for the safe transport, use and disposal of materials and equipment. Impacts are considered ***less than significant with mitigation.***

The project site is adjacent to Edendale Middle School. However, as discussed above, the project is not anticipated to emit or handle hazardous materials. Therefore, with respect to the potential of the project to impact the public or the environment through the routine transport, use or disposal of hazardous materials; or through reasonably foreseeable upset and accident conditions causing the release of hazardous materials; or through the emission or handling of hazardous materials within one-quarter mile of an existing or proposed school, there would be a ***less than significant*** impact. Source documentation: (16) (26) (19)

d) Presence of Hazardous Materials

Phase I Environmental Site Assessment (All parcels except 16327 Kent Avenue)

A Phase I Environmental Site Assessment (ESA) was prepared for the site by RGA Environmental, Inc. on May 13, 2011 for all parcels except address 16327 Kent Avenue (APN 080C-0479-021). The Phase I was conducted according to the guidelines of the U.S. Environmental Protection Agency (EPA)'s All Appropriate Inquiry rule and the American Society for Testing and Materials (ASTM) E1527-05 guidelines.

The 1.92-acre property, situated on the western side of Kent Avenue south of East 14th Street, was improved with five single-family residences, a converted barn, and multiple mobile homes. Associated asphalt and gravel driveways and parking areas, as well as a carport, several storage sheds, individual restroom structures, and other yard and undeveloped areas were also present on the three parcels comprising the site. The residences and mobile homes were occupied by private parties at the time of the reconnaissance, and only residential use of the property was observed. Several 1- to 5-gallon containers of assorted paint were observed in the barn as well as outside a storage shed on the western portion of the site. At least one old, rusted 55-gallon drum appearing to contain/have contained oil and several rusted 1-gallon cans of thinner were observed in an overgrown yard area behind the 16325 Kent Avenue residence. An additional old, leaking drum of what appeared to be tar or oil and multiple containers of assorted sizes, both open and closed and appearing to contain oil, were observed in the western portion of the carport at the northwestern corner of the site. Stains on the ground surface and overlying carpet were observed in this portion of the carport as well. The wooden cover of a cistern, which reportedly had been filled with soil, was observed near the center of the site.

As early as the late 1930s, the Site was cultivated with field crops and orchards, with the current barn and several other structures also present. By the mid-1950s to mid-1960s, the majority of the current development was present on the Site. The carport structure was constructed in the late-1940s/early-1950s, the 16325 Kent Avenue residence in 1958, and the 16331 Kent Avenue residence in 1948. The Ashland DeLux Trailer Park was first reported on the

Site in 1954. The remainder of the current Site structures appeared present by the late-1980s/early 1990s. A tank house historically present reportedly was demolished in 1953. The area immediately surrounding the Site was similarly cultivated until the late-1940s/early-1950s, when residential development occurred south and east of the site and commercial development was constructed along East 14th Street. The adjoining Holland Oil facility appeared present by 1965, with the fueling portion of the facility not appearing on the portion of the property adjoining the Site. The current ball fields west of the site were present by the mid-1960s.

One 350-gallon gasoline underground storage tank (UST) was removed from the property in 1993. The location of the UST was difficult to interpret from the site plan in the documentation, but was depicted at the southwestern corner of the barn. Soil samples collected from beneath the UST and from the stockpiled soil demonstrated non-detectable concentrations of total organic lead, oil and grease, gasoline, benzene, and halogenated volatile organic compounds (VOCs). Up to 0.048 parts per million (ppm) toluene, 0.004 ppm ethylbenzene, and 0.017 ppm xylenes were detected. Based on the analytical results, the Alameda County Department of Environmental Health (ACDEH) issued a letter in May 1993 stating there was no contaminant problem associated with the former UST at the time of removal. The letter stated that the case could be reopened if evidence of a release was suspected at a future time.

Visual inspection of the subject property did not reveal the presence of stressed vegetation, unusual or noxious odors, or monitoring wells. At the time of the survey, there were no known pending environmental regulatory actions concerning the subject property. No indications of significant spills or releases of hazardous materials were documented in available regulatory agency files. With the exception of several containers of paint and the materials discussed below, hazardous materials and/or wastes were not observed during the site reconnaissance. Documented prior usage of hazardous materials by Site tenants was not found in the sources available for this study.

Due to the age of construction and the historically rural location of the on-site residences, heating oil USTs may be present. If a UST is encountered during site development activities, it must be appropriately removed in accordance with applicable ACDEH requirements, and verification soil sampling and possibly limited excavation and removal of impacted soil could be required.

At least one old, rusted 55-gallon drum appearing to contain/have contained oil and several rusted 1-gallon cans of thinner were observed in the overgrown yard area behind the 16325 Kent Avenue residence. In addition, a second 55-gallon drum leaking a thick tar- or oil-like substance and multiple containers of oily material were observed within the carport at the northwestern corner of the Site. Jensen-Van Lienden Associates recommend that these materials, as well as the abandoned vehicle in the overgrown yard area, be appropriately disposed prior to the property transaction as they currently are inappropriately stored and spills/releases from the containers have impacted underlying soil.

In addition, the overgrown yard area behind the 16325 Kent Avenue residence should be cleared of brush and inspected, to ascertain whether additional hazardous materials containers that require disposal may be present, and whether such containers may have leaked and impacted underlying soil. Visually-impacted soil present at several areas within the carport structure should be excavated and removed from the site for appropriate disposal. Consideration should be given to collection of verification soil samples from the bottoms of the excavations, to confirm the impacted materials has been adequately removed.

Development of the site with what appeared to be the existing barn, as well as a dwelling, tank house, and additional structures, was documented from at least the late 1930s through the mid- 1950s. Many areas with historic structures are found to have residual metals and/or pesticides/herbicides present in soil around the location of the perimeter of the historic structures, attributable to the application of pesticides/herbicides and the flaking of lead-based paint. Since residential development of the Site is planned, consideration should be given to evaluating soil quality in the locations of historic structures. If pesticides and/or metals are found to be present at significant concentrations, appropriate handling and possibly removal or remediation could be required.

In addition to the possible presence of residual metals and/or pesticides/herbicides present in soil, other sub-grade structures including USTs, pipelines, septic tanks, fill materials, buried debris, building materials, and impacted soil

also may be present from previous site development in those areas. If objects such as these are encountered during future development of the site, special measures for their removal may be required, possibly including soil characterization and/or remediation.

Agricultural cultivation of the site with field crops and orchards was documented from at least the late-1930s through the late 1940s/early 1950s. Standard agricultural practices also may have included application of agricultural chemicals, possibly including DDT and lead arsenate.

Pesticides may have been stored in the current barn or other historic on-Site structures and also may have been mixed in the vicinity of reported historic on-Site well. Since residential development of the site is planned, consideration should be given to evaluating soil quality in the historically agricultural areas, as well as around the well if located and in the vicinity of the historic structures and barn. If pesticides and/or metals are found to be present at significant concentrations, appropriate handling and possibly removal or remediation could be required.

The historic presence of a tank house on the Site indicates that a water supply well likely was present. A well at the 16331 Kent Avenue property was reported in the disclosure documentation provided by the historic property owner. If, during future construction activities at the Site, a well is encountered, it must be appropriately abandoned in accordance with applicable regulatory agency requirements.

A cistern reportedly is present near the center the site, for which the former access cover remains visible but access was not available. The cistern reportedly was filled with soil prior to purchase of the property by the current Site owner. During site demolition activities, removal of the cistern should be conducted and the structure should be evaluated to confirm its use as a cistern. If a use other than water storage is suspected, further evaluation should be conducted.

In the disclosure report prepared by the previous Site owner, the 16331 Kent Avenue property was reported in the proximity of a former or current waste disposal site, and the 16325 and 16331 Kent Avenue properties were indicated as having pipelines carrying oil, gas, or chemicals beneath or adjacent.

Of the environmental databases that were searched, one adjoining, hydraulically down-gradient facility was identified by RGA as having a release of petroleum hydrocarbons to ground water. The off-site former Holland Oil facility currently is an open fuel leak case. Based on ground water monitoring data available for the property, groundwater at the Holland Oil property is flowing away from the subject property. In addition, monitoring data from the closest Holland Oil property ground water monitoring well to the subject property indicated no contaminants present in ground water during monitoring events in 2008 and 2009. Based on the available data, the former Holland Oil property is not considered to be an environmental risk to the site. Source documentation: (19)

Phase I Environmental Site Assessment (16327 Kent Avenue Only)

Ashland Family Housing retained Belinda P. Blackie, P.E., R.E.A. to perform a Phase I environmental site assessment (ESA) of the approximately 0.11-acre "Joe Parcel", located at 16327 Kent Avenue in San Lorenzo, California (site). The purpose of the assessment was to identify recognized environmental conditions (RECs) associated with the site, as defined by ASTM E 1527-05, Standard Practice for Environmental Site Assessments and 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries; Final Rule.

A small structure was present on the subject property by the late-1930s. The site currently is developed with a single-family residence and detached garage, constructed in 1949 and 1951. A small storage shed also is present. The property, unoccupied, is owned by May L. Joe, who has owned the property since at least 2002.

Significant quantities of hazardous materials or evidence of hazardous materials spills or releases were not observed at the site. Evidence of significant historic storage and/or use of hazardous materials at the site were not found.

This ESA has revealed evidence of the following potential REC in connection with this site: the potential presence of residual metals and/or pesticides present in soil around the locations of historic and current structures. In addition, although not considered RECs, other sub-grade structures may be present from previous site development and asbestos-containing building materials and lead-based paint also may be present. Source documentation: (21)

Asbestos and Lead-based paint survey

On May 4, 2011, a Limited Asbestos and Lead Survey Report was prepared for all the parcels that comprise the site by RGA Environmental, Inc. A summary of their results and findings are summarized below.

Asbestos Survey Results

On April 26, 2011, RGA conducted a visual survey and collected bulk samples of suspected asbestos containing material (ACM) at the subject site. The surveys were completed in general accordance with AHERA methods (40 CFR, Part 763) as a guideline. Survey procedures included the visual observation and identification of building materials suspected of containing asbestos, collection of representative bulk samples, and physical assessment/quantification of the suspect materials. The physical assessment of suspected asbestos-containing materials was conducted to determine if the material is friable and to assess if the material is damaged. According to AHERA, a "friable" material can be reduced to dust or powder with hand pressure. Examples of friable materials may include but are not limited to fire- proofing, sprayed-on acoustical ceiling material, paper backing on sheet vinyl flooring and some thermal system insulation. Concern related to exposure to airborne asbestos fibers from ACMs in buildings has primarily been focused on friable asbestos products.

Materials that contain tightly bound asbestos fibers are reported as “non-friable”. A "non-friable" material contains asbestos fibers which have been locked-in by a bonding agent, coating, binder, or other material, so that fibers are not released during appropriate use or handling. Vinyl floor tile and flooring mastics are two examples of non-friable materials. Fiber release is less likely to occur with a non-friable material. Non-friable materials that are not damaged and are left undisturbed are not expected to represent an asbestos exposure risk. Both friable and non-friable materials can present a health hazard should they become disturbed or damaged (e.g., during renovation or demolition activities).

Bulk samples were collected in general accordance with Asbestos Hazard Emergency Response Act (AHERA) guidelines. A total of fifty-one (51) bulk samples were collected of thirty-one (31) homogeneous areas of suspect asbestos containing material (ACM). Each accessible structure was surveyed separately with their results summarized in this summarized in this single report. All suspect ACM was observed to be in good condition. The 15 mobile homes and their associated structures were not generally accessible at the time of the survey and subsequently have been excluded from this summary report with the exception of the 14-car metal shed, four of the bath structures, and the washroom portion of the west bath structure-washroom combined building. Prior to future renovation or demolition, each of the structures excluded from this survey may be required by the Bay Area Air Quality District (BAAQMD) to be inspected for the presence of ACM.

Based on the visual observations by RGA’s certified inspectors and an evaluation of the laboratory analysis results, RGA concludes that no ACM is present in the surveyed site structures with the exception of the following approximate quantity of assumed and confirmed ACM:

<u>16309 Kent Avenue, Bath Structure #5 (one of seven)</u>

- 20 square feet of 9-inch vinyl floor tile with associated black mastic on the floor of the west half of Bath Structure #5 reported by the analytical laboratory as containing 2% chrysotile asbestos in both tile and mastic. Removal of this non-friable asbestos containing material (ACM) would be considered Class II asbestos work expected to generate non-hazardous, Category I ACM waste.

- 200 square feet of 9-inch vinyl floor tile with associated black mastic is "assumed" to be present on the floors of the following portions of Bath Structures 1E, 2W, 3E, 3W, 6E, 6W, 7NE, 7NW, 7SE, 7SW that were not accessible during the survey due to their enclosure by adjacent mobile home residents who use them as part of their residential dwelling. The Bath Structures were reported by the owner as having been constructed prior to 1978. In the absence of sampling data, the structures must be assumed by RGA to contain ACM flooring and associated mastic similar to Bath Structure #5. Removal of this non-friable asbestos containing material (ACM) would be considered Class II asbestos work expected to generate non-hazardous, Category I ACM waste.

16309 Kent Avenue (15 Mobile Homes and Associated Structures)

- Until appropriately surveyed, these structures are assumed to contain asbestos in roofing material, roof mastic, window putty, joint compound on interior drywall, adhesive associated with glued on interior wall panels, floor tiles and associated mastic, and acoustic ceiling tiles.

16325 Kent Avenue (Residence 3B/2B – 1,800 sf)

- 3000 square feet of textured surfacing material on interior walls throughout the structure reported by the analytical laboratory as containing 2% chrysotile asbestos. Removal of this friable Regulated Asbestos Containing Material (RACM) would be considered Class I asbestos work expected to generate friable, hazardous RACM waste.

Lead Containing Paint Survey

On April 26, 2011, RGA conducted a visual survey and collected paint chip of predominant paints and coatings on building components of site structures and representative composite surface soil samples for bare soil areas at or near structure drip lines for analysis of lead content.

Based on visual observations and an evaluation of the laboratory analysis report for paint chip samples collected and analyzed, RGA concludes that substantially intact "lead-based paint" (>5000 ppm lead) is present on the following surfaces at the site:

16309 Kent Avenue (Bath Structures)

- 8,500 ppm lead in white paint on exterior concrete walls
- 17,000 ppm lead in white paint on window frames

Lead in Soil Survey

On April 26, 2011, RGA conducted a visual survey and collected composite surface soil samples of bare soil from accessible drip-lines and child play areas adjacent to major site structures. Based on visual observations and an evaluation of the laboratory analysis report for lead in soil samples collected and analyzed, RGA concludes that lead impacted soil is present in surface soil at the following site locations:

16309 Kent Avenue (Barn)

- 400 ppm lead in surface soil at drip line

16333 Kent Avenue (Residence-Modular)

- 1,300 ppm lead in north flower bed

The U.S. Department of Housing and Urban Development (HUD) classifies soil containing lead levels greater than 400 ppm as "hazardous" in high-contact areas (i.e., sandboxes and gardens). The California Department of Health Services (DHS) defines lead-contaminated soil in children's play areas as soil containing greater than or equal to 400 ppm lead.

Conclusions and Recommendations

RGA understands that the subject site is under consideration for development a residential housing project referred to as the Ashland Housing Project. Based on RGA's visual observations and review of the laboratory analysis reports for samples of suspected ACM, suspected lead containing paint, and suspected lead containing bare soil, RGA concludes that asbestos containing material (ACM) in good condition, substantially intact lead-based paint (LBP) and lead-containing paint (LCP), lead containing soil, an underground storage tank, and a variety of potentially hazardous petroleum-impacted soil, containers, and equipment are present at the subject sites. Prior to the renovation or demolition of site structures, the aforementioned ACM, lead containing soil, and potentially hazardous materials should be properly removed, recycled, and/or disposed of by properly certified contractors using approved methods in accordance with all applicable federal, state, and local regulations. Impacts are therefore ***less than significant with mitigation.*** Source documentation: (20)

e) and f) Airport Hazards

The project site is not near a public airport or private airstrip nor is it located within an airport plan area. There would be no impact in this regard. The nearest airport is Hayward Executive Airport approximately 2.51 miles south of the project site. The nearest major airport is Oakland International Airport approximately 5.85 miles north of the project site. No impact zones from either airport extend to the site; therefore there is ***no impact*** in this regard. Source documentation: (38) (39) (40) (41)

g) Emergency Response

The project would not impair implementation of or physically interfere with an adopted emergency response plan. Project review by the Fire Department will ensure that there will be ***no impact*** to any adopted emergency response plan. Source documentation: (42)

h) Wildland Fires

There are no wildlands on site or adjacent that could pose a risk of wildland fires. The project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Therefore, there would be ***no impact*** in this regard. Source documentation: (42)

Mitigations

Toxic and Hazardous Materials

HZ1. Follow all recommendations outlined in the Phase I Environmental Site Assessment report prepared for the Ashland Housing Project in May 2011 by RGA Environmental.

HZ2. Follow all recommendations outlined in the Phase I Environmental Site Assessment report prepared for the project in May 2012 by Belinda P. Blackie, P.E., R.E.A.

HZ3. Follow the recommendations by RGA outlined in HZ4 through HZ13 for planned site development which may disturb ACM, LBP, LCP, lead in soil, and/or a variety of other potentially hazardous materials which were observed at the subject site.

HZ4. The site owner should provide notification to employees, contractors, subcontractors, and tenants of the site structures as to the presence, location, and quantity of ACM, LBP, and lead in soil at the site within 15 days of receiving this information.

HZ5. Prior to renovation or demolition of the 15 mobile homes and associated structures (including inaccessible bath structures) not included in this survey, the site owner should engage the services of a Cal-OSHA certified asbestos consultant to conduct appropriate asbestos survey/s in compliance with applicable regulations.

HZ6. All ACM present in site structures should be removed prior to disturbance by construction activities by a properly licensed asbestos abatement contractor employing only properly trained and currently certified asbestos personnel who apply appropriate work practices in accordance with current local, State, and Federal asbestos regulations.

HZ7. Prior to future work at the site that may disturb asbestos in "any amount", Cal-OSHA requires advanced written notification from the subject contractor of their "Intent to Conduct Asbestos Related Work."

HZ8. A 10 working day advance written notification and payment of appropriate fees are required by the Bay Area Air Quality Management District (BAAQMD) for every demolition project within their jurisdiction, even when no ACM is present, and for each renovation project where the amount of friable ACM is equal to or greater than 160 lineal feet or 260 square feet.

HZ9. Contractors disturbing lead-based and lead-containing paint should implement appropriate lead related work practices in accordance with applicable Cal-OSHA worker exposure regulations to include, at a minimum of lead awareness training for all site workers and provision of hand-washing stations at the work site.

HZ10. Contractors disturbing lead-based paint on building components must do so in compliance with applicable regulations of California Department of Occupational Safety and Health, including the submission of an advance notification to the local Cal-OSHA office of their "Intent to Conduct Lead- Related Construction Activity."

HZ11. The approximately 600 square feet (to a depth of no less than 3-inches) of lead-impacted soil present at the drip-line of the 16309 Kent Avenue Barn and in the flower bed (garden) of the 16333 Kent Avenue residence should be removed from the site by a properly licensed contractor and disposed of at an appropriate landfill in accordance with applicable regulations. Remaining soil should be capped with grass, asphalt, or concrete to minimize contact by children.

HZ12. The fluorescent lights tubes, fluorescent light ballasts, and refrigeration units commonly contain small amounts of mercury, PCBs, and refrigerants. The contractor for the project should be advised to properly recycle/dispose of these items prior to building demolition and in accordance with applicable regulations. A California licensed hazardous waste hauler should transport these items from the site to an appropriate landfill.

HZ13. It is the client's responsibility to assess the potential risk of each reported site condition and balance their desired end result with the projected cost of implementing some or all of RGA's recommendations. RGA is available to assist the client in securing their desired end result by insuring that all recommend work is done in accordance with current regulations and guidelines.

IX. *HYDROLOGY AND WATER QUALITY* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Violate any water quality standards or waste discharge requirements?		X		
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g. the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?			X	
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?		X		
d) Substantially alter the existing drainage pattern of the site or area, in including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?		X		
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?		X		
f) Otherwise substantially degrade water quality?		X		
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				X
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				X
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				X
j) Inundation by seiche, tsunami, or mudflow?				X

Setting

Water Supply

The East Bay Municipal Utility District (EBMUD) supplies water to approximately 1.3 million people in Alameda and Contra Costa Counties. Most of EBMUD's water comes from the 577-square-mile Mokelumne River water-

shed. Water is collected at the Pardee Reservoir in Amador County and distributed to the nearby Camanche Reservoir, and the Mokelumne Aqueducts, which carry water to the East Bay. EBMUD maintains reservoirs within its East Bay service area that include the Briones, Chabot, Lafayette, San Pablo, and Upper San Leandro reservoirs. EBMUD has rights to divert approximately 325 million gallons of water per day from the Mokelumne River.

According to the EBMUD's Urban Water Management Plan 2000, customer demand was approximately 230 million gallons of water per day in 2000. EBMUD forecasts that customers within the supply area would demand about 277 million gallons per day by 2020. With implementation of conservation techniques and use of recycled water, water demand could be reduced to 229 mgd. However, if the District experiences a series of dry years, there would be a shortage of as much as 154 mgd.

EBMUD has undertaken several efforts to boost its dry-year water supply, including:

- obtaining a license for Mokelumne entitlements that maximizes benefits to District customers,
- Diversifying water supply through regional partnerships and completing the Water Supply Management Program (WSMP) 2040 to prioritize conjunctive use, desalination, and other water supply opportunities and cost-effectively improve reliability.
- Constructing the Freeport Regional Water Project to take water from the Sacramento River during dry years.
- Maintaining updated plans which document supply and demand conditions,
- Analyzing future needs, anticipate obstacles, and prescribing strategies and actions for meeting future requirements consistent with District policy.
- Integrating the District's water supply and infrastructure planning efforts into the Statewide Bay Delta Vision process.

EBMUD currently provides water service to the project site.

Impacts

b) Water Supply

Total project demand would be a maximum 30,240 gallons of water per day (using EBMUD's estimated daily demand of 70 gallons per person per day and a maximum of 432 tenants). The project represents a net increase over what has been provided to the existing mobile home park and single family residences. According to EBMUD, it has an "obligation to serve" all customers within their jurisdiction as long as the water use is not considered to be wasteful.

The project's impact on the supply of water would be ***less than significant***. Source documentation: (43) (44) (45)

g) through i) Floodplains

Review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency (FEMA) dated August 3, 2009, indicates the proposed project is located in Zone X meaning that it is:

- an area outside the 1-percent annual chance floodplain,
- an area of 1% annual chance sheet flow flooding where average depths are less than 1 foot,
- an area of 1% annual chance stream flooding where the contributing drainage area is less than 1 square mile, or
- in areas protected from the 1% annual chance flood by levees.

No Base Flood Elevations or depths are shown within this zone, and insurance purchase is not required in these zones.

The project does not involve property acquisition, land management, construction or improvement within a 100 year floodplain (Zones A or V) or 500 year floodplain (Zone B) identified on a Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM). Flood Insurance requirements are not invoked. There is ***no impact*** in this regard. Source documentation: (29)

j) Seiche, Tsunami and Mudflow

The project site topology is flat. The project site is located over three (3) miles from the California coast-line. ***No impact*** is expected as a result of the project. Source documentation: (35)

a) and c) through f) Storm Water and Water Quality

The California State Water Resources Control Board (SWRCB) is responsible for establishing water quality standards in California, and the San Francisco Regional Water Quality Control Board (RWQCB) is responsible for regulating discharges of wastes and stormwater runoff to San Francisco Bay. The RWQCB completed the most recent review and update of the Water Quality Control Plan (Basin Plan) for the San Francisco Bay region in 2007. Consistent with state law, the Basin Plan includes a statement of beneficial water uses to be protected, water quality objectives (or standards), strategies and schedules for achieving those objectives, and waste discharge requirements.

The United States Environmental Protection Agency (EPA) is also responsible for setting standards and regulating activities that affect water quality, under the federal Clean Water Act (Federal Water Pollution Control Act Amendments of 1972, as amended, and commonly known as the Clean Water Act). The Clean Water Act established the National Pollution Discharge Elimination System (NPDES), which is used by the state, regional and local agencies (such as Alameda County) to regulate discharges from both point sources (such as industrial sources) and non-point sources (such as urban runoff). Section 303(d) of the federal Clean Water Act requires states to identify water bodies that are not attaining water quality standards, and to establish total maximum daily loads (TMDLs) for pollutants causing the impairment. As such, TMDLs establish a special kind of water quality standard applicable where the EPA has recognized a given water body as failing to meet water quality standards or objectives. The Estudillo Canal is not by itself listed as an impaired water body, but lower San Francisco Bay into which it drains is listed for a wide range of contaminants, such as DDT, dioxin compounds, mercury, and polychlorinated biphenyls (PCBs).

The RWQCB primarily regulates non-point discharges by issuing permits for stormwater runoff to municipalities and counties, contingent on the implementation of controls and practices (Best Management Practices, or BMPs) to protect water quality. The RWQCB's Basin Plan requires that new development of one acre or more provide permanent, post-construction measures to protect water quality to reduce pollution and the rate of runoff which typically results from new impervious surfaces such as roads and roof tops.

Construction of the project would require a substantial degree of excavation, stockpiling and grading activities. During construction, discharges of stockpiled fill materials or erosion of exposed soil into local storm drains and culverts during rainstorms could have adverse water quality impacts on neighboring properties, local roadways, storm drainage facilities such as Estudillo Canal, and San Francisco Bay. The RWQCB requires the developer of any proposal to disturb one or more acres of land to apply for a "General Permit for Stormwater Discharges Associated with Construction". The General Permit requires that the applicant submit a Notice of Intent (NOI) and a Storm Water Pollution Prevention Plan (SWPPP) to the RWQCB and Alameda County Public Works Agency's Grading Department and Clean Water Program, the latter of which is responsible for implementing the NPDES requirements. Without proper measures in the SWPPP to control stormwater flows during construction, the project would have a *potentially significant* impact due to violation of standards, conflict with objectives, failure to meet discharge requirements or degradation of the beneficial uses of surface waters in the Bay Area. Source documentation: (46)

In addition, the proposed project site is located in an area that has been identified by the County of Alameda as one that requires Hydrograph Modification Management. Hydrograph Modification Management, also called Hydromodification Management (HM) is an NPDES requirement to control increases in peak runoff flow and vol-

ume when these increases would likely have negative impacts on creeks and other waterways. Negative impacts include erosion of creek banks and siltation. Flow duration control is a structural approach to provide HM. For certain projects flow duration facilities are required to detain excess stormwater and release it at rates which match predevelopment conditions. Applicability of HM controls depends largely on the location of the project. In certain applicable areas, projects must provide stormwater HM control for any increase in flow or volume of stormwater runoff. HM controls apply to projects whose drainage could adversely affect natural creek channels, such as this one.

Applicable projects creating or replacing one acre or more of impervious surface will be required to comply with the Alameda Countywide Hydromodification Management Plan.

HM requirements are separate from post-construction treatment. Whereas stormwater treatment is intended to improve the quality of stormwater by removing pollutants, HM controls the volume and/or duration of runoff to minimize the erosion of creeks. However, where both treatment controls and HM controls are required, one facility may be designed to meet the needs for both requirements. The project will be required to implement HM. With HM, the project therefore must include in the design of its storm drainage system detention measures, using the Bay Area Hydrologic Model (BAHM) program that must be sized to control the flow and duration of the stormwater runoff. Source documentation: (47)

Project impacts in the above areas are considered ***less than significant with mitigation.***

Mitigations

The following are conditions of approval for the project that apply to this section of the checklist.

Hydrology

H1. Approval of the project is conditional upon Caltrans formal acceptance of ownership and maintenance responsibility (not merely acknowledgement of Caltrans issuance of permit) of the proposed storm drainage line within the East 14th Street's road right-of-way. The development of the site must fully comply with Provision C.3 of the Municipal Regional Stormwater Permit by integrating in the on-site storm drainage design post-construction storm water measures.

H2. The project will be required to implement Hydrograph Modification Management (HM). With HM, the project therefore must include in the design of its storm drainage system detention measures, using the Bay Area Hydrologic Model (BAHM) program that must be sized to control the flow and duration of the storm water runoff.

H3. Any storm drain line proposed to be constructed within the Kent Avenue road right-of-way will have to be designed and constructed based on the County of Alameda guidelines. However, the storm drain line constructed will not be considered as "an extension" of the District's Zone 2, Line C-2 flood control facility.

H4. The development of the site is not to augment storm runoff to the existing District's Zone 2 Line C storm drain facility downstream, located northwesterly of the project site, which cannot accommodate additional runoff that was not accounted for in its original design. A modified runoff coefficient factor, C' of 0.62 had been assigned to this site in the District's hydrology calculations prepared for the sizing of the existing storm drainage system along East 14th Street. If the proposed development warrants a higher runoff coefficient than the original C' value of 0.62, mitigation measures with adequate outlet and/or metering works will need to be included and implemented by the project developer in the design of the on-site storm drainage facility.

H5. The design of mitigation measure will have to be reviewed and approved by Alameda County Public Works Agency (ACPWA) and any connection of the proposed on-site storm drain system to the District's flood control facility will be subject to a District flood encroachment permit Pre-Construction .

H6. All roadway and storm drain facilities are to conform to Alameda County's Subdivision Design Guidelines and Hydrology and Hydraulics Criteria Summary. All work must be in compliance with Alameda County ordinances, guidelines, and permit requirements.

Water Quality

WQ1. It is the responsibility of the applicant to comply with Federal, State, and local water quality standards and regulations including the California Regional Quality Control Board, San Francisco Bay Region, Municipal Regional Stormwater National Pollutant Discharge Elimination System (NPDES) Permit, adopted 2009 and 2011.

WQ2. The applicant must submit Notice of Intent (NOI) to submit a Storm Water Pollution Prevention Plan (SWPPP) to the project engineer and the Grading Division prior to issuance of a grading permit and prior to any land disturbance of on the site.

X. *LAND USE AND PLANNING* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Physically divide an established community?				x
b) Fundamentally conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including but not limited to the general plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect and actually result in a physical change in the environment?		x		
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?				x

Setting

The proposal is for mixed-use affordable housing with 2,339 sq. ft. of commercial space. The development will contain 85 units (twenty nine (29) one-bedroom, thirty (30) two-bedroom and twenty five (25) three-bedroom units along with a three-bedroom manager's unit) in a cluster of three-story buildings around a central green space, at a density of 38.4 du/ac. Fifteen of the one bedroom units will house emancipated foster youth. A mixed-use building on East 14th Street will include apartments above commercial space, offices for property management and resident services, a community room serving the residents, and laundry facilities. Affordability levels range from 30% to 50% of area median income.

The entire project, including residential and commercial uses, would have a floor area ratio (FAR) of 0.95. The development of the Ashland Youth Center adjacent to the site creates an opportunity for services linkages with transition aged foster youth residing at the property.

- 85 dwelling units (25 three-bedroom, 30 two-bedroom, and 29 one-bedroom, plus 1 three-bedroom manager's unit);
- 2,339 sq. ft. of commercial space;
- 93 on-site residential parking spaces and 6 on-site commercial parking spaces;
- four buildings, from one to four stories (up to 45 feet) tall, but most of massing is 3 stories;
- Community center with large multi-purpose meeting/community room and exercise room for residents of the development;
- Laundry facilities;
- Onsite resident support services such as children's programs, educational workshops and job readiness classes, including programming tailored to the needs of transition age youth (at no cost to residents);

- Community open spaces: a large central plaza, a community gardening area for residents, and tot lot;
- Secured entry through keyed lobby or gated driveway;
- Full-time resident property manager and maintenance staff and part-time resident services manager;
- One building, the enclosed community space, will be one story and will have a "green roof"; the building facing East 14th Street will have four stories along East 14th Street (fourth story will be 2,414 sq. ft.) and have a partial green roof, and will drop to three stories along Kent Avenue. All other buildings will be three stories.
- An outdoor plaza area for public use at the corner of East 14th Street and Kent Avenue.

The project proposes to add a roughly triangular-shaped portion of the right-of-way at the intersection of East 14th Street and Kent Avenue for additional frontage along East 14th Street, and the creation of a small pedestrian plaza at the intersection, next to the proposed un-programmed commercial space.

The project involves demolition of the existing houses and the mobile home park on the subject property (which contains 16 units). The previous residents of the mobile home park have been relocated and compensated for their relocation as required per State law.

General Plan

The *Eden Area General Plan* designates the four subject sites as High Density Residential (between 43 to 86 dwelling units per acre density) with General Commercial allowed as a secondary use.

The General Plan designation of the four subject sites is High Density Residential (between 43 to 86 dwelling units per acre density) with General Commercial allowed as a secondary use. This designation allows the proposed density of 38.4 dwelling units per acre (2.22 acre site with 85 proposed dwelling units).

In the Eden Area, there are certain parcels that are allowed to have both residential and commercial uses. On these parcels, the primary and secondary uses are identified. Unless it is otherwise stated, the primary use must occur on the parcel and the secondary use is optional. On these parcels, new development may occur at the maximum density allowed in the residential designation and to the maximum FAR for commercial development. Neighborhood-serving commercial uses, such as grocery and convenience stores, salons, professional offices, restaurants, drug stores, dry cleaners, day care centers and banks, are desired in these areas. The secondary use designation allows property owners to develop a vertically "mixed use" project, such as residential or office uses over retail, or to develop a horizontal mix of uses on their parcel with separate buildings for different uses. The secondary use designations primarily occur on major arterial roadways and are intended to provide flexibility for property owners to develop their property in ways that meet changing economic conditions and to encourage vibrant Corridors and Districts with a mix of uses.

The *Eden Area General Plan* Land Use Designation Map is implemented through the Zoning Ordinance, which provides more specific classifications than this General Plan. Thus, the specific density ultimately allowed on each parcel may be lower than the maximum density identified in the applicable land use designation due to site constraints or other County regulations. In some cases, more than one zoning district may be consistent with a single land use designation. Other parts of the Alameda County General Ordinance Code, particularly the Subdivision Ordinance, provide additional development standards. Under State law, all County ordinances and regulations must be consistent with the General Plan.

The General Commercial designation allows for a wide range of commercial uses that encompass small offices, local and regional retail establishments and automobile-oriented uses to meet the needs of Eden Area residents, em-

ployees and pass-through travelers. Offices are particularly encouraged in commercially designated areas to enhance the employment base of the area. Commercial parcels have a maximum FAR of 1.0. Allowed uses include the following:

- Neighborhood commercial uses include grocery and convenience stores, salons, professional offices, restaurants, fast-food establishments, auto service stations, drug stores, dry cleaners, day care centers, shoe stores, tool and appliance repair shops, contractors' shops, hardware stores and banks. Neighborhood commercial uses are best located in centralized areas capable of serving the greatest number of households with the least travel distance and best access to alternate modes of transportation and freeways.

- Regional commercial uses include factory outlets, discount stores, regional shopping malls, automobile sales, office uses, medical facilities and home improvement centers. These uses are best located in areas with the highest level of automobile access but should also contain a safe pedestrian environment.

- Highway commercial uses include hotels and motels, restaurants, and motor vehicle and gasoline service stations that provide services to the traveling public and allow for convenient freeway access. These uses should be located in close proximity to freeway ramps. Source documentation: (1) (48)

This proposal would meet the density, FAR, and land uses allowed by the General Plan. The proposed project is consistent with the *Eden Area General Plan.*

Source documentation: (1) (48)

Zoning

The *Ashland Cherryland Business District Specific Plan (ACBDSP)* designates the largest parcel (1.2 acres, APN 080C-0479-023-02) within the Transit Access (TA) land use district. This designation encourages commercial development and allows mixed-use residential densities of up to 50 du/ac. The other three parcels are located in the R-1 (Single-Family Residence) zoning district (which allows densities of up to 9 du/ac). The proposed rezoning to a PD (Planned Development zoning district) of all of the four parcels is in keeping with the required review through Planned Unit Development for proposed mixed-use projects per the Specific Plan, and is vertically consistent with the High Density Residential land use designation of the Eden General Plan for proposed redevelopment of the properties currently zoned R-1.

The Specific Plan for the six identified Ashland and Cherryland business districts promotes transit oriented development along East 14th Street/Mission Boulevard, as well as development that takes advantage of existing highway and freeway access. Transit stops are set in locations for higher intensity, mixed-use development in four of the six business districts. Intensive commercial development on Lewelling/East Lewelling Boulevard is concentrated near Mission Boulevard, to the east end, and near Hesperian Boulevard, to the west. Between these two areas, the Specific Plan promotes commercial development on East Lewelling Boulevard that is significantly less intensive and that is more responsive to the high school and to the predominately residential character of the identified Business District.

The Specific Plan also outlines a comprehensive set of public reinvestment projects that are designed to restore a high quality of life to neighborhoods within walking distance of shopping and public transportation. These projects include new community service facilities and programs that will serve and nurture the unusual diversity of people who live in the area. Facade and sign improvement programs and, ultimately, street landscaping and public places are planned that both will improve the appearance of the area and create a more attractive climate for promoting new private sector reinvestment.

Development of mobile home parks, in whole or in part by either private or public means and conversion to commercial or high density residential development, consistent with Plan policies, is allowed and encouraged, is the

long-term objective of this policy, and is subject to providing comparable replacement housing in the community for all residents who are being displaced and who desire it according to established redevelopment law. Such housing shall be dedicated as low cost housing for the maximum time period allowed, unless otherwise provided under the Specific Plan, the Redevelopment Plan, or by County ordinance or policy.

To the extent that the mobile home parks on East 14th Street take up commercial frontage, they represent an underutilization of property, and all reasonable efforts should be pursued for redevelopment of these sites following the revitalization scenarios outlined for each business district. At present, most of the mobile home sites provide little in any physical amenities for residents. In the short term, assistance is to be provided for site landscaping of the mobile home parks appropriate to their use as residential areas.

The *Ashland Cherryland Business District Specific Plan* includes further goals, policies, and standards for how this corridor should be developed and includes an action plan to finance and build specific public improvements. The identified Revitalization Opportunities and Revitalization Strategy for the Ashland Avenues Business District of the Specific Plan, which includes the subject sites, complements the Transit Access zoning designation Development Regulations regarding mixed use development, retail commercial development on the ground floor, and physical standards of construction.

The entitlement procedure for this project is for a rezoning to a Planned Development (PD) District, since the Specific Plan states that "special consideration, as PUD [planned unit development], when development includes underground or parking structure, special pedestrian amenities such as plazas or access pathways, transit facilities, or a mix of residential and commercial uses" (pages 3-28 and 3-29).

The front of the site (parcel with address 16309 Kent Avenue and County assessor's parcel number 080C-0479-023-02) is located within the *Ashland and Cherryland Business District Specific Plan (ACBDSP)*, which has the force and effect of zoning ordinance, with a zoning designation of Transit Access (TA); see *ACBDSP*, page 1-14:

1.4 RELATIONSHIP TO THE ALAMEDA COUNTY ZONING ORDINANCE

According to State law, a specific plan may be administered as, and thus have the force of, zoning. Policies and regulations developed by the Ashland and Cherryland Business Districts Specific Plan take precedent over and replace standard zoning and the provisions of the Alameda County Zoning Ordinance for the Plan Area. Where the Specific Plan is silent, or perceived to be silent, provisions of the Zoning Ordinance will apply. The County's Site Development Review process may impose more, but not less, restrictive requirements where appropriate. Violation of the provisions of the Ashland and Cherryland Business Districts Specific Plan shall constitute a violation of the Zoning Ordinance, and enforcement of the provisions of the Specific Plan shall be done in the same manner as enforcement of the provisions of the Zoning Ordinance. Amendment to the land use policies of the Specific Plan shall be made in the same manner and according to the procedures established for amendments to the Zoning Ordinance.

The three other parcels, 16325, 16327, and 16331 Kent Avenue, unincorporated Ashland area, with County assessor's parcel numbers: 080C-0479-023-01, -021-00, and -022-00, respectively, are located in the R-1 (Single Family Residence) zoning district, per the Alameda County Zoning Ordinance.

The proposal would rezone all four parcels, plus the right-of-way to be abandoned by the County and acquired by the project, to a Planned Development (PD) zoning district, per the entitlement process described on page 3-28 of

the Specific Plan. The following findings would have to be made in order to allow for the rezoning of the entire project to a PD District:

17.18.115 - Land use and development plan—Required findings.

The planning commission and the board of supervisors shall not approve any reclassification of property to a planned development district unless they can make all the following findings in the affirmative:

A. The resulting development implements the applicable policies, objectives, principles, and goals of the county general plan, area plans, and applicable specific plans;

B. The parcel size, shape, property lines, and terrain are suitable for the proposed development;

C. The resulting development is integrated and harmonious with and/or beneficial to the character and infrastructure of the surrounding area in terms of physical development and use;

D. The development results in a higher quality design or site plan than would otherwise result from development of the property if subject to the existing zoning development and use standards; and

E. Any increase in density over that permitted by existing zoning standards shall either:

1. Provide a positive relationship to adjacent land uses and densities;

2. Provide affordable housing; or

3. Provide a tangible public benefit, such as:

a. Substantial improvement to public infrastructure in the immediate area;

b. Public uses such as community centers, public parks, or open spaces; or

c. Additional impact fees (which may be achieved through development agreements) for which there might not otherwise be nexus on project impacts.

In addition to the above findings, the planning commission and board of supervisors shall not approve any reclassification of property to a planned development district for residential developments greater than fifty (50) units unless they can make all the following additional findings in the affirmative:

F. The streets and thoroughfares proposed are suitable and adequate to carry anticipated traffic, and the density will not generate traffic in such amounts as to overload the street network outside the PD district;

G. There will be no adverse fiscal impact to the county, specifically, but not limited to provision of services; and

H. Each phase, if applicable, of the development, as well as the development as a whole, can exist as an independent unit capable of creating an environment of sustained desirability and stability.

(Ord. 2006-36 § 1 (part))

(Ord. No. 2010-17, § 35, 12-21-10)

Impacts

To the extent that the mobile home parks on East 14th Street take up commercial frontage, they represent an underutilization of property, and all reasonable efforts should be pursued for redevelopment of these sites following the revitalization scenarios outlined for each business district. At present, most of the mobile home sites provide little in any physical amenities for residents. The physical improvement of a permanent building complex instead of mobile homes is considered a benefit to the site and the area. The additional commercial space would also be of benefit to the area, and the new building would provide a catalyst for further private investment in the area.

b) Conformance with any applicable land use plan, policy, or regulation

Existing Conditions: A major goal of the *Ashland Cherryland Business District Specific Plan (ACBDSP)* and an important revitalization strategy for each of the business districts is to create high quality public spaces that function as centers or nodes of activity (page 5-1). A major objective of the streetscape project for East 14th Street / Mission Boulevard is to create public spaces that serve as nodes of neighborhood activity. Certain locations (including the intersection of Kent Avenue and East 14th Street) are identified by the program statement for the streetscape project for a system of public plazas and parks that should be designed in conjunction with eth streetscape project (page 5-16).

An *ACBDSP* program statement, on pages 5-16 and 5-17, 5.1.8.2 Kent Avenue / East 14th Street Intersections, requires that:

> "The small, triangular public right-of-way area, exclusive of the roadway, at the intersection of Kent Avenue and East 14th Street shall be developed as a neighborhood park adjacent to East 14th Street…. In addition, a public access easement shall be created and a public pathway designed and constructed between the Kent Avenue park and Edendale Park."

Analysis: The project proposes to use the northwest corner of Kent Avenue and East 14th Street as part of the project, and will include a privately-installed and privately-owned outdoor plaza area to be physically similar to the public sidewalk improvements currently being designed as part of the East 14th Street right-of-way improvements master plan. The *Ashland Cherryland Business District Specific Plan* requires installation of a public park at this corner "such as a low wall, where people could sit between the street sidewalk and the park is one positive way to create a distinction between the two areas… designed as a community node… identifiable as a separate place to be claimed and used primarily by the surrounding residential blocks" [(2)] as part of its revitalization strategy for each of the business districts along East 14th Street to create high quality public spaces that function as centers or nodes of activity.

However, since the adoption of the *ACBDSP* in 1995, there has been a shift in the neighborhood outdoor space node from the corner of Kent Avenue and East 14th Street to the corner of East 14th Street and 163rd Avenue (one intersection to the northwest). This new outdoor node is much more grand and useable than the Kent / East 14th Street node could have ever been, because there have been improvements made to Edendale Park with a skate park, toddler and child play structures, an urban plaza, and new landscaping. The Ashland Youth Center, located between Edendale Park and the Ashland Family Housing site, will include an indoor/outdoor café, outdoor seating areas, and indoor activities. The Edendale Park front plaza area, together with the Ashland Youth Center, once operational, will be the new public space that serves this neighborhood node of activity along East 14th Street.

Impact: Even though the updates to Edendale Park and the new outdoor paces at the Ashland Youth Center meet the goal and objective of the *ACBDSP* for public spaces that serve as nodes of neighborhood activity, and as a cog in the system of public plazas and parks in the business districts along East 14th Street, the *ACBDSP* still requires a neighborhood park at the small, triangular public right-of-way area, exclusive of the roadway, at the intersection of Kent Avenue and East 14th Street. The proposed privately-installed and privately-maintained outdoor plaza area would be

contrary to the intent of the goals of the *ACBDSP* if physical configuration and public access is not provided to create this neighborhood park.

Proposed Mitigation to reduce the impact to Less Than Significant levels: The project proponent should be required to install public amenity improvements to the plaza area at the project frontage to East 14th Street and Kent Avenue that includes permanent sitting furniture, irrigated landscaping, and partial sun shading. A public access easement should be recorded with the deed to the property allowing perpetual, public pedestrian access to this plaza area, and requiring maintenance of the plaza and amenities for the life of the project.

Source documentation: (1) (2)

The project is consistent with the Zoning Ordinance in that the rezoning findings will be made in the affirmative:

The planning commission and the board of supervisors shall not approve any reclassification of property to a planned development district unless they can make all the following findings in the affirmative:

A. The resulting development implements the applicable policies, objectives, principles, and goals of the county general plan, area plans, and applicable specific plans;

This project implements the goals of the Eden Area General Plan to improve the East 14th Street corridor with permanent buildings, to provide for affordable housing, to reduce vehicle miles traveled with the development of a mixed-use project along a transit corridor and within walking distance of a regional transit station.

B. The parcel size, shape, property lines, and terrain are suitable for the proposed development;

The site is a flat site that will use abandoned right-of-way to increase frontage along the East 14th Street for 2,339 sq. ft. of commercial space. The corner location among commercial services, and its location near the new Ashland Youth Center and Edendale Park, make it a valuable location for multi-family housing and commercial mixed use.

C. The resulting development is integrated and harmonious with and/or beneficial to the character and infrastructure of the surrounding area in terms of physical development and use;

The mixed-use commercial and multi-family residential development will be well integrated with the mixed-use urban setting along the East 14th Street corridor. It will be provided with adequate utility and public services such as public transit, parks, and protection services. Also, the development will be harmonious with the scale and design of the new Ashland Youth Center to the northwest, and the existing older single-family residential neighborhood to the south.

D. The development results in a higher quality design or site plan than would otherwise result from development of the property if subject to the existing zoning development and use standards; and

The development needs a rezoning to the Planned Development zoning district because the ACBD Specific Plan requires review through a planned unit development of proposed mixed use development. The development meets the density maximums of the Eden Area General Plan, so that the proposed increase in zoning for the current R-1 parcels would comply with the General Plan land use policies. Also, the proposal would meet the current density maximums allowed by the ACBD Specific Plan for the parcel at the intersection of Kent Avenue and East 14th Street. The design would be a vertically mixed use building (residential over commercial), at the East 14th Street frontage, with residential only near the existing single-family residential neighborhood further south on Kent Avenue. The parking lot adjacent to the single-family residential neighborhood and to the existing Edendale Park would provide a 60-foot buffer between this development and the surrounding land uses. The proposed plaza area at the corner of East 14th Street and Kent Avenue, next to the proposed commercial space,

would provide a special urban amenity that could be developed into an outdoor eating café. The interior courtyard and outdoor useable open space, surrounded by the project buildings and protected from exterior noise or intrusion, would be a peaceful place for resident outdoor use. Therefore, the general design of the project would be beneficial to its residents and to the surrounding neighborhood. Not only is the site layout well thought out and of quality design, but also, the ACBD Specific Plan requires review of mixed use development for this land use designation through a planned unit development. A mixed-use project could not have been considered without use of a planned unit development review.

E. Any increase in density over that permitted by existing zoning standards shall either:

1. Provide a positive relationship to adjacent land uses and densities;

2. Provide affordable housing; or

The proposal is for mixed-use affordable housing with 2,339 sq. ft. of commercial space. The development will contain 85 units (twenty nine (29) one-bedroom, thirty (30) two-bedroom and twenty five (25) three-bedroom units along with a three-bedroom manager's unit) in a cluster of three-story buildings around a central green space, at a density of 38.4 du/ac. Fifteen of the one bedroom units will house emancipated foster youth. A mixed-use building on East 14th Street will include apartments above commercial space, offices for property management and resident services, a community room serving the residents, and laundry facilities. Affordability levels range from 30% to 50% of area median income.

3. Provide a tangible public benefit, such as:

a. Substantial improvement to public infrastructure in the immediate area;

b. Public uses such as community centers, public parks, or open spaces; or

c. Additional impact fees (which may be achieved through development agreements) for which there might not otherwise be nexus on project impacts.

In addition to the above findings, the planning commission and board of supervisors shall not approve any reclassification of property to a planned development district for residential developments greater than fifty (50) units unless they can make all the following additional findings in the affirmative:

F. The streets and thoroughfares proposed are suitable and adequate to carry anticipated traffic, and the density will not generate traffic in such amounts as to overload the street network outside the PD district;

As stated in the transportation section of this Initial Study, the proposed development would mitigate its own traffic impacts by adequately reconfiguring the intersection of Kent Avenue and East 14th Street, providing for bulb-outs at the intersection to reduce pedestrian crossing distances at this intersection, providing free AC Transit bus passes to the residents of the project for forty years, and improving the traffic signals, at the intersection.

G. There will be no adverse fiscal impact to the county, specifically, but not limited to provision of services; and

As stated in the public services section of this Initial Study, the proposed development would not cause adverse fiscal impacts to the County, because it would pay impact fees to schools, roads, and pay for its utility service improvements. Fire and Sheriff response services would not be significantly adversely affected by this project.

H. Each phase, if applicable, of the development, as well as the development as a whole, can exist as an independent unit capable of creating an environment of sustained desirability and stability.

The project would be developed all in one phase. This statement is not applicable.

Therefore impacts are considered ***less than significant with mitigation.***

Source documentation: (1) (2) (3) (4) (5) (6) (7) (8) (26) (42) (49)

c) Habitat conservation plans

The proposed project is redevelopment of improved parcels. The subject properties are not included in any habitat conservation plan or other natural community conservation plan; therefore there is ***no impact*** in this regard. (2)

a) Community division

The project is an infill development that would provide affordable housing and commercial space along the commercial corridor. The design conforms to the design guidelines and development standards in the *Ashland and Cherryland Business Districts Specific Plan.* The project would not physically divide the community; therefore there is ***no impact*** in this regard. Source documentation: (2)

Mitigations

The following are conditions of approval for the project that apply to this section of the checklist.

LP2. Prior to issuance of Demolition, Grading, Site, Encroachment, or Building Permits, the project sponsor shall provide for approval by the Planning Director, landscaping plans showing permanent sitting furniture, irrigated landscaping, and partial sun shading devices, at the plaza area at the project frontage to East 14th Street and Kent Avenue. Prior to issuance of Final Occupancy, the project proponent shall install public amenity improvements to the plaza area at the project frontage to East 14th Street and Kent Avenue that includes permanent sitting furniture, irrigated landscaping, and partial sun shading devices to the satisfaction of the Planning Director. Prior to issuance of Final Occupancy, a public access easement shall be recorded with the deed to the property, and evidence of such submitted for approval by the Planning Director, allowing perpetual, public pedestrian access to this plaza area, and requiring maintenance of the plaza and amenities for the life of the project.

XI. *MINERAL RESOURCES* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				x
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				x

Setting

The project site is in an urban area.

Impacts

a) and b)

The proposed project would not result in the loss of availability of a known or locally important mineral resource. The site is located in an urban area; there would be ***no impact*** in this regard. Source documentation: (26) (35)

XII. ***NOISE*** Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) 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 (e.g. OSHA)?		x		
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?				x
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?			x	
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?		x		
e) 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?				x
f) 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?				x

Setting

Existing Noise Environment

There are several noise measurement scales that are used to describe noise in a particular location. A decibel (dB) is a unit of measurement that indicates the relative intensity of a sound. The zero on the decibel scale is set at 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 measured intensity. Each 10-decibel increase in sound level is perceived as approximately a doubling of loudness over a fairly wide range of intensities.

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. 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, equivalent in energy to the total energy of the actual noise levels experience over a fixed period of time, most commonly an hour. This energy-equivalent sound/noise descriptor is called Leq.

Since people's sensitivity to noise increases during the evening and at night, the Community Noise Equivalent Level (CNEL) was developed. The CNEL gives greater weight to noise levels during the evening and night than during the day. The Day/Night Average Sound Level, Ldn, is essentially the same as CNEL, with the exception that the evening time period is not given greater weight than the daytime period.

Regulatory Setting

The project site is subject to noise criteria from the Eden Area General Plan, County of Alameda and also the California Building Code. The specific criteria for each of these are discussed below.

Eden Area General Plan, County of Alameda

Goal N-1 of the noise element for the Eden Area General Plan, County of Alameda addresses environmental noise. Policies P4 and P5 establish exterior and interior noise guidelines for land-use compatibility as follows:

- New multi-family residential developments shall be designed to maintain a standard of 65 dB L_{dn} maximum in community outdoor recreation areas. Balconies shall not be considered outdoor recreation areas, thus no noise standards shall apply to these areas.

- All new residential land uses shall be designed to maintain a standard of 45 dB L_{dn} maximum in building interiors.

Source documentation: (1)

California Building Code

The California Building Code (Title 24, Chapter 12) requires that the indoor noise level in new multi-family housing not exceed DNL 45 dB where the exterior noise level is greater than DNL 60 dB. The CBC also states that if windows must be closed to meet the interior standard, the design must include a ventilation or air-conditioning system to provide a habitable interior environment.

Impacts

a) Noise Environment

The project site is located in Ashland, California at the southeast corner of East 14th Street and Kent Avenue. The project site is bordered by baseball fields to the west and single-family housing to the south. The major noise source is vehicle traffic on the nearby roadways.

To quantify the existing noise environment, three long-term noise measurements and two-short term (15-minute) measurements were conducted at the project site between 8 and 11 October 2012. An offset in noise levels between long-term and short-term monitor locations was used to estimate the L_{dn} at short-term locations (northwest and southwest corners of the project).

Long-term monitors were attached to utility poles at a height of 12 feet above grade. The two short-term measurements were conducted at approximately 40 feet above grade to represent the upper floors of the housing project.

Based on the data, the expected L_{dn} at the various facades and elevations was calculated. The L_{dn} ranged between 58 and 75 dB across the site. The Eden Area General Plan defines this as a "conditionally acceptable" exterior noise exposure. One (1) dB was added to the expected L_{dn} to account for future traffic increases[6]. Source documentation: (50)

Recommendations

To meet the interior L_{dn} 45 dB requirement, it will be necessary for all of the facades to be sound-rated. The floor plans were used to measure the layout of the units.

Based on the drawings, window and exterior door STC[7] ratings needed to meet the project criterion were calculated and shown on the figures attached to the Noise Study. Implementation of the recommendations made in the Noise Study for sound-rated building components bring the impact to ***less than significant with mitigation.*** Source documentation: (50)

b) Groundborne Vibration

The site is not subjected to groundborne vibration from any source. There is ***no impact*** in this regard. Source documentation: (16) (26) (50)

Contribution to Community Noise Levels

c) Traffic

Trips generated for the proposed project were analyzed in a traffic study performed by Kimley-Horn and Associates, Inc. in June 2011. The study estimated that the proposed development will generate 470 net new daily trips (over current conditions), 35 net during peak AM hour and 42 PM peak hour trips. The study concluded that traffic impacts of the project are considered ***less than significant.*** As such, the vehicle trips generated will not constitute a significant impact to community noise levels. Source documentation: (49)

d) Temporary Construction Noise

Construction activities are anticipated to include demolition, grading, paving, installation of underground utilities, and building construction. Noise generated by construction activities associated with the project would be the greatest during demolition, site grading and excavation phases. Construction-related noise levels during building framing, finishing, and landscaping phases are normally lower as construction moves indoors or requires less pieces of heavy-construction equipment.

Noise impacts resulting from construction depend on the noise generated by various pieces of construction equipment, the timing and duration of noise generating activities, and the distance between construction noise sources and noise sensitive areas. The nearest noise sensitive receivers (residences) adjoin the northernmost property line of the

---

6 Caltrans assumes a traffic volume increase of three-percent per year, which corresponds to a 1 dB increase over ten years. In the absence of City data, we have used this same formula for the local roads.

[7] Sound Transmission Class (STC) – A single-figure rating standardized by ASTM and used to rate the sound insulation properties of building partitions. The STC rating is derived from laboratory measurements of a particular building element and as such is representative of the maximum sound insulation. Increasing STC ratings correspond to improved noised isolation.

site. Residences are also located adjacent to the property to the south. Construction noise impacts primarily result when construction activities occur during noise-sensitive times of the day (e.g., early morning, evening, or nighttime hours), the construction occurs in areas immediately adjoining noise sensitive land uses, or when construction lasts over extended periods of time.

Construction activities generate considerable amounts of noise, especially during site grading activities and excavation for underground utilities. The highest maximum noise levels generated by project construction would typically range from about 90 to 95 dBA at a distance of 50 feet from the noise source. Typical hourly average construction generated noise levels are about 81 dBA to 88 dBA measured at a distance of 50 feet from the center of the site during busy construction periods (e.g., earth moving equipment, impact tools, etc.). Hourly average noise levels generated by the construction of residential units would range from about 65 dBA to 88 dBA measured at a distance of 50 feet depending on the amount of activity at the site. 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.

The available controls are included in the project to reduce construction noise levels as low as practical. In Alameda County, the inclusion of these controls is assumed to reduce the impact from project construction to less-than-significant levels. All Alameda County Standard Conditions of Approval regarding noise control measures must be implemented at the project site at all times.

The operation of the project would not generate noise levels that would be considered substantial in terms of existing or future noise levels in the area. Future noise levels in the project vicinity will continue to result from local transportation related noise sources. Occasionally audible noises from the proposed residential land uses will not measurably contribute to daily average noise levels at nearby noise-sensitive receivers.

For reference, the acoustical energy resulting from all noise-generating activities associated with the project would have to equal the existing noise levels generated by all sources in the site vicinity (i.e., a doubling of environmental noise) for there to be a 3 dBA increase in the L_{dn}. A tripling of noise would have to occur for there to be a 5 dBA increase in the L_{dn}. A project that only incrementally increases ambient noise levels would not result in a doubling or tripling of acoustical energy, and would not substantially increase noise levels in the area.

Conclusion

Community noise levels will not be significantly affected by the development. The only contribution of the project to long-term noise levels would be from the normal automobile traffic generated from the project. Based on the traffic analysis prepared, the project would generate at most 470 daily vehicle trips which would not be sufficient to increase traffic-related noise levels on surrounding streets. Source documentation: (49)

The proposed project would also generate temporary building equipment noise and construction noise. However, these will be subject to limitations established in Alameda County conditions of approval for construction noise. With implementation of the mitigation measures listed at the end of this section, impacts are considered ***less than significant with mitigation.***

e) and f) Airports

There are no airports that contribute to noise at the site. The closest airport to the site is the Hayward Airport, located approximately 2.51 miles south of the project site. There is ***no impact*** from airports to noise at the site. Source documentation: (16) (26)

Mitigations

Noise

N1. Follow all recommendations for sound class rating building materials for interior noise attenuation as found in Figure 2 and 3 of the Environmental Noise Study performed for the project by Charles M. Salter Associates, Inc. and dated October 16, 2012.

N2. Follow Conditions of Approval labeled N3 through N6 to manage temporary noise during demolition and construction of the project.

N3. Construction activity shall be limited to the hours of 7 AM to 6 PM, Monday through Saturday. No construction is allowed on Sundays and federal holidays.

N4. All construction vehicles and equipment shall be fitted with working mufflers.

N5. Machinery, including motors, shall be turned off when not in use.

N6. A "disturbance coordinator" shall be designated who will be responsible for responding to any local complaints regarding construction noise. The coordinator (who may be a member of City staff or employee of the general contractor) will determine the cause of the complaint and will require that reasonable measures warranted to correct the problem be implemented. A telephone number of the noise disturbance coordinator shall be conspicuously posted at the construction site fence and on the notification sent to neighbors adjacent to the site.

XIII. ***POPULATION AND HOUSING*** Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			x	
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?		x		
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?		x		

Setting

The project site is developed and in an urban area. All of the project parcels and developed and four of the five are improved with structures. The mobile home park contains sixteen (16) mobile homes and associated out buildings.

The proposal is for mixed-use affordable housing with 2,339 sq. ft. of commercial space. The development will contain 85 units (twenty nine (29) one-bedroom, thirty (30) two-bedroom and twenty five (25) three-bedroom units along with a three-bedroom manager's unit) in a cluster of three-story buildings around a central green space, at a density of 38.4 du/ac. Fifteen of the one bedroom units will house emancipated foster youth. A mixed-use building on East 14th Street will include apartments above commercial space, offices for property management and resident services, a community room serving the residents, and laundry facilities. Affordability levels range from 30% to 50% of area median income.

Impacts

a) Population Growth

As an affordable housing project, the project is not anticipated to cause a substantial growth in population in the area. The project will include housing provided for foster youth aging out of the foster care program, a segment of the population that currently exists and is underserved.

Based on guidelines provided by HUD, the maximum number of residents appropriate to multi-family unit dwellings is two persons per bedroom, plus one per unit. Thus, at most there would be three persons in a one-bedroom apartment, five persons in a two-bedroom unit and seven people in a three-bedroom unit. The proposed project would provide 29 one-bedroom units, 30 two-bedroom units, and 25 three-bedroom units. Carrying the math forward, we see that: 29 x 3 = 87 persons for the one-bedroom units; 30 x 5 = 150 persons for the two-bedroom units; and 25 x 7 = 175 persons for the three-bedroom units. Add this all together for a total of 87 + 150 + 175 = 412 residents (including the onsite manager's unit). So, the proposed project would provide housing for at most 412 people. However, it is not expected that three individuals will occupy a one-bedroom unit. Nevertheless, for the purposes of this analysis, a population of 412 people is assumed. The population of unincorporated Alameda County was estimated at 20,793 in 2000, so the additional 412 people would represent 0.02% of that population. ***Less than signifi-***

cant impact is expected to result from the proposed project, as it would not create a significant change to the demographics of the area. Source documentation: (51)

b) and c) Displacement

The Uniform Relocation Act (46 U.S.C. § 4600 et seq.), passed by Congress in 1970, its implementing regulations (49 C.F.R.) Part 24); and, the California Relocation Assistance Law, California Government Code Section 7260 et seq (the "CRAL") and the California Relocation Assistance and Real Property Acquisition Guidelines, Title 25, California Code of Regulations, Chapter 6, Section 6000 et seq. (jointly the "Rules and Regulations") establish minimum standards for federally and locally funded programs and projects that require the acquisition of real property (real estate) or displace persons from their homes, businesses, or farms. The Rules and Regulation's protection and assistance apply to the acquisition, rehabilitation, or demolition of real property for federal or federally-funded projects.

Residents will be displaced by the project; the project is subject to the "Rules and Regulations" defined above and a conforming relocation plan will be developed and implemented. Residents will not be displaced in significant numbers to necessitate the construction of housing elsewhere. Implementation of a qualified relocation plan reduces the impact to ***less than significant with mitigation.*** Source documentation: (8) (26) (52)

Mitigations

The following mitigation measure is provided to ensure that displacement prior to project construction results in a smooth and orderly relocation for the existing residents:

P1. The project will involve relocation of residents. The project will be subject to the Uniform Relocation Act (46 U.S.C. § 4600 et seq.), passed by Congress in 1970, its implementing regulations (49 C.F.R.) Part 24); the California Relocation Assistance Law, California Government Code Section 7260 et seq (the "CRAL") and the California Relocation Assistance and Real Property Acquisition Guidelines, Title 25, California Code of Regulations, Chapter 6, Section 6000 et seq. (jointly the "Rules and Regulations"). A conforming relocation plan has been developed and is being implemented.

XIV. *PUBLIC SERVICES* Would the project result in a substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services?:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Fire protection?			x	
b) Police protection?			x	
c) Schools?			x	
d) Parks?			x	
e) Other public facilities?			x	

a) Fire Protection

The Alameda County Fire Department Station #3 is located approximately 0.1 miles east of the project site at 1426 164th Avenue. Behind Station #3 houses their Emergency Medical Services and the Training Division. In year 2009, the Alameda County Fire Department (ACFD) responded to over 12,000 calls in the unincorporated areas alone and almost 23,000 county-wide.

The Alameda County Fire Department is comprised of four organizational branches that meet the operational, special operations and communication, administrative support service, and fire prevention needs of the Department. The Fire Chief provides overall leadership and is responsible for the effective management, coordination, and service delivery of all aspects of the Department. The Deputy Fire Chiefs, Fire Marshal and Administrative Services Director oversee their respective organizational branches ensuring the overall day-to-day readiness of all aspects of the organization.

The Operations branch is responsible for emergency response and incident mitigation for fires, medical emergencies, hazardous materials, urban search, rescue, and other emergencies. The Operations Branch is charged with ensuring that personnel meet established training guidelines so that the Department is capable of meeting any emergency response challenge. The Operations Branch is also responsible for the management of the Reserve Program which provides a cadre of individuals who volunteer their time and skills to assist front line firefighters.

First-responder paramedic services are available 24 hours per day, 365 days per year basis throughout the unincorporated areas of the County (excluding Fairview) as well to the cities of Dublin, Newark and San Leandro, the Lawrence Berkeley National Laboratory, and Lawrence Livermore National Laboratory.

The goal of the Operations branch is to contribute to the safety of the citizens of Alameda County by safely providing emergency response and incident management for fires, rescues, medical emergencies, hazardous materials incidents, and disasters.

The commitment is to respond to calls within 5 minutes to fire and medical emergencies. The ACFD 5-minute response time is based on two aspects of emergency response:

- Emergency medical service calls are to provide lifesaving to assure adequate respiration and circulation are restored within a 5-6 minute window period to prevent long-term brain damage.
- For fires, a 5-minute response time allows a sizable firefighting force to converge on a structure or wildland fire, keeping it to its point of origin or 10 acres or less.

The increase in residential activity at the site would result in a corresponding incremental increase in demand for fire protection and emergency medical services. The proposed structure is residential buildings that are typical in the surrounding area. Special tactical expertise or training should not be required. Adequate water pressure to the project site would be required by the County sufficient to meet minimum fire protection needs.

The project will be designed and operated in accordance with the provisions of the Uniform Fire Code, including Amendments, set forth in Chapter 18-44 Uniform Fire Code. Because no fire stations are located onsite or immediately surrounding the project site, project construction would not impact fire stations. The project will not require significant new fire protection service in the area.

The project location and proposed site layout provides adequate access for fire vehicles. The project will not create a burden on existing services and will not require significant new fire or police protection services in the area. The final project design would be subject to review and approval by ACFD staff, resulting in ***less than significant*** impact. Source documentation: (16) (26) (53)

b) Police Protection

The unincorporated areas of Alameda County are served by the Alameda County Sheriff which provides police protection services. The Alameda County Sheriff is located at 2000 150th Avenue in San Leandro, approximately 1.2 miles north of the project site.

The Alameda County Sheriff's Office is a full service law enforcement agency accredited through the Commission on Accreditation for Law Enforcement Agencies (CALEA) and the American Correctional Association (ACA). Additionally, the agency's health care provider, Prison Health Services, has dual accreditation through the National Commission on Correctional Health Care (NCCHC) and the California Medical Association (CMA). Together these form what is referred to as the "Triple Crown" of accreditation (ACA, NCCHC/CMA and CALEA) awarded by the National Sheriff's Association. Additionally, the Sheriff's Office Crime Lab is nationally accredited by the American Society of Crime Laboratory Directors (ASCLD). The Sheriff's Office Explosive Ordinance Disposal Unit has also been awarded national accreditation through the Bomb Squad Commanders Advisory Board.

The Sheriff's Office has a current adjusted net budget of approximately $185.7 million and has over 1500 authorized positions, including in excess of 1000 sworn personnel. The agency's Chief Executive Officer is Sheriff Gregory J. Ahern, who is assisted in the operation of the agency by Undersheriff Richard T. Lucia, Assistant Sheriff's James L. Baker and Casey Nice.

The Sheriff of Alameda County is responsible for a vast array of tasks and duties, including the following:

- Providing security to the Consolidated Superior Courts
- Operating the Coroner's Bureau
- Operating a full service criminalistics laboratory
- Performing Civil Process
- Operating a County Jail (Santa Rita)
- Operating the County Office of Emergency Services
- Providing patrol and investigative services to the unincorporated areas of Alameda County
- Pursuant to contractual agreements, providing patrol and investigative services to the City of Dublin, Peralta Community College District, Oakland-Alameda County Coliseum complex, Oakland International Airport, Highland County Hospital, Social Services, and to the Alameda-Contra Costa Transit District

- Conducting a basic academy pursuant to Police Officer Standards and Training (P.O.S.T.) requirements.
- Providing Fish and Game enforcement
- Project Director of the Narcotics Task Force
- Serving as the Executive Director of the Sexual Assault Felony Enforcement (SAFE) Task Force
- Operating a Marine Patrol Unit in the San Francisco Bay waters.

The Alameda County Sheriff's Office, Emergency Services Dispatch unit provides 9-1-1 emergency and non-emergency telephone service, 24 hours a day, seven days a week. They provide service to the public in the unincorporated areas of Castro Valley, Hayward, Cherryland, Ashland, San Lorenzo, San Leandro, Sunol, Pleasanton and Livermore. For year 2008, the unit dispatched over 191,271 calls for service.

The Emergency Services Dispatch Unit of the Alameda County Sheriff's Office diligently works to provide public safety dispatch services to the citizens of Alameda County. The unit is often the first contact point for citizens are skilled in determining the particular needs of the caller to determine an appropriate level of response by the appropriate resource provider (law, fire, medical or other government entity) to respond to those in need.

The proposed project, 85 units of housing, would not likely cause an increase in demand for police services beyond what is already provided for in the area. No new facility would be required in order for police to respond effectively to the potential increase in criminal activity that would result from the proposed project. Therefore, while the proposed project may increase the need for police response to crimes in the project area, this impact is considered ***less than significant***. No mitigation is required. Source documentation: (54)

c) Schools

Students from the Ashland Family Housing site would attend the schools closest to the site within the San Lorenzo Unified School District. The elementary school closest to the project in the District is Hisperian Elementary School at 620 Drew Street, approximately 0.59 miles from the project. For middle school children, an easily walked 875 feet from the project, across the school field is Edendale Middle School; the address is 16160 Ashland Avenue. San Lorenzo High School at 50 East Lewelling Blvd. is approximately 0.59 miles from the project for high school youth.

Also of interest is to note numerous faith-based educational facilities for school age children within a mile of the project.

The proposed project is expected to result in a negligible increase in new residents in the area. Additionally, school fees will be assessed for the project and will aid in funding overall district maintenance. The potential for the project to result in increased demands on school facilities is therefore considered ***less than significant.***

Source documentation: (55)

d) and e) Cultural and Other Public Facilities

A corner of the property fronts East 14th Street, where shops, restaurants, banks, pharmacies and many other commercial facilities can be found within walking distance. The Bayfair Mall is approximately 0.65 miles north of the project, which contains major stores and restaurants. Four different AC Transit bus lines operate on East 14th Street providing transit options to reach commercial facilities.

The proposed project is within two miles of two theatres, two art galleries, one museum, a convention center and a landmark, the Hayward Chamber of Commerce. There are three libraries within two miles of the project site and the San Lorenzo Library is approximately 1.2 miles from the project.

The addition of at most 432 residents would not constitute a significant impact to the availability of commercial facilities to residents of the proposed project.

Due to the relatively small size of the proposed project, none of these facilities would be adversely affected by the additional patronage generated by it, resulting in ***less than significant*** impact. Source documentation: (16) (26)

XV. *RECREATION* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?			×	
b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?			×	

a) and b) Parks & Open Space

Edendale Park is adjacent to the proposed project. Within less than 0.5 miles is Ashland Park, a two-acre park that includes a youth center and school gymnasium. Meek Park is located approximately 0.6 miles from the project.

The shoreline of the East Bay is approximately three miles away, and is home to the Don Edwards San Francisco Bay National Wildlife Refuge as well as the Oyster Bay Regional Shoreline. The refuge spans 30,000 acres of open bay, salt pond, salt marsh, mudflat, upland and vernal pool habitats located throughout south San Francisco Bay. Located along the Pacific Flyway, the Refuge hosts over 280 species of birds each year. Millions of shorebirds and waterfowl stop to refuel at the Refuge during the spring and fall migration. In addition to its seasonal visitors, the Refuge provides critical habitat to resident species like the endangered California clapper rail and salt marsh harvest mouse. Today, hundreds of thousands of people visit the Refuge each year to enjoy its diverse wildlife and habitats.

To the east of the project is Lake Chabot and Lake Chabot Park approximately 2.5 miles away. The 315-acre Lake Chabot is stocked with trout and catfish and open for fishing and boating throughout the year. The marina features a café, rental boats and tour boat rides. Lake Chabot offers over 20 miles of hiking trails, which connect to the additional 70 miles of trails in adjoining Anthony Chabot Regional Park. The paved, 3.52-mile West Shore and East Shore trails provide access to the south and east shores of the lake.

The East Bay Regional Park District's Recreation Services Unit provides resources and services that are consistent with the District mission and that appeal to diverse ages, abilities, cultures and economic backgrounds. They are a public resource for learning and experiencing new outdoor-based recreational activities. They offer free outdoor movie nights, special interest classes, day camps, trails challenges, programs for children and community outreach programs.

Because of its small size (a maximum of 412 residents) the development would not generate a significant new demand for parks or other recreational facilities. The project would not require the construction or expansion of recreational facilities, so that there would be no physical effect on the environment from this issue; therefore the impact is ***less than significant.***

Source documentation: (16) (26) (56) (57) (58)

XVI. *TRANSPORTATION* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and related components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?			x	
b) Conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designed roads or highways?			x	
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				x
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible land uses (e.g., farm equipment)?			x	
e) Result in inadequate emergency access?			x	
f) Conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?			x	

Setting

Planned Land Use

The land use plans for Hayward, San Leandro, and unincorporated Alameda County all identify the East 14th Street/International Boulevard corridor as a target area for growth. The specific areas targeted for growth are those within walking distance of transit, particularly around Bay Area Rapid Transit (BART) stations. For the most part, the plans call for higher-density, mixed use development on parcels adjacent to the street. While every jurisdiction along the corridor targets East 14th/Mission Blvd. for future growth, the amount and scale of growth varies. Alameda County, however, is planning for moderate-density housing (up to 50 units per acre) along East 14th, especially around the key neighborhood commercial center at the intersection with Ashland Avenue. Alameda County has also incorporated language into its land use designations that specifically encourages the types of mixed use projects that it would like to see developed.

While protecting the character of existing neighborhoods is important, this goal can limit opportunities to create transit and pedestrian-oriented neighborhoods that provide housing and transportation choices for residents. The *Ashland Cherryland Business Districts Specific Plan* (1995) guides land uses on East 14th Street at the project site. This plan targets East 14th Street for a mix of commercial, residential, and institutional uses. In particular, it focuses

on encouraging mixed use clusters to create neighborhood activity centers. These pedestrian and transit-friendly areas would be the focal point for the surrounding neighborhoods. Over time, the plan calls for some of the areas along the corridor between activity centers to transition away from low-density, auto-oriented uses to a mix of moderate and higher-density housing or office uses.

Planned Housing

The Housing Elements of the jurisdictions along the corridor demonstrate the potential for increased housing choices along East 14th/Mission. As noted earlier, Hayward, San Leandro, and Alameda County all designate the corridor as a target area for housing growth, a mix of uses, and higher densities. To accommodate their housing need, each of the jurisdictions has identified strategies that encourage higher densities, especially near transit, and a wider variety of housing types. These strategies include re-zoning sites at higher densities, establishing minimum densities in some areas, reducing parking standards, and developing design guidelines for infill, multi-family, and live-work developments. These policies have the potential to increase housing choices throughout the corridor.

For unincorporated Alameda County, much of the land along East 14th between 159th and 164th Avenues has been designated for future transit-oriented housing development[8]. The Housing Elements for the three jurisdictions also show the efforts they are making to provide more affordable housing. Each of the jurisdictions has implemented a variety of policies to preserve and enhance affordable housing options.

Planned Transportation

Transportation improvements for the East 14th Street/Mission Boulevard corridor are guided by seven plans:

- AC Transit Short Range Transit Plan for 2003 - 2012 (2003)
- Alameda County 2004 Countywide Transportation Plan (2004)
- East 14th Street/Mission Boulevard Master Plan (1999)
- Pedestrian Master Plan for Unincorporated Areas (2006)
- Alameda Countywide Strategic Pedestrian Plan (2006)
- Alameda Countywide Bicycle Plan (2006)
- Bicycle Master Plan for Unincorporated Areas - DRAFT (2006)

The combination of proposed land use changes and streetscape improvements included in the plans for East 14th /Mission should help to improve the walkability of the corridor. All of the plans for East 14th/Mission propose an increase in mixed use development along the corridor, particularly in those areas around neighborhood commercial centers and transit stations. In these areas, the mix of uses is intended to encourage pedestrian activity and transit use, while establishing a vibrant focal point for the surrounding community. All three jurisdictions encourage creation of these kinds of districts by focusing retail and commercial development in these areas, while promoting additional housing development in areas along the corridor that are not activity centers.

To further the goal of creating walkable districts, many of the plans also include design guidelines and development standards intended to create more appealing environments for pedestrians. Although each jurisdiction is planning for pedestrian improvements to provide better links to their BART stations along the corridor, there is currently only one project underway to improve the streetscape along East 14th/Mission itself. This project is in unincorporated

[8] *The proposed project lies within this area, between 163rd and 164th Avenue.*

Alameda County from the San Leandro border to Highway 238[9]. Its purpose is to improve the visual appearance of the corridor using strategies such as putting utility lines underground, widening sidewalks, and adding landscaped median, street trees, curb bulb-outs, and improved lighting.

Source documentation: (2) (3) (4) (5) (6) (7)

The Ashland community is a part of the Eden Area, which consists of the unincorporated land in western Alameda County between the cities of San Leandro and Hayward and west of the County's Castro Valley planning area. Ashland is generally bound by I-580 to the east, the San Lorenzo Creek to the south, and the City of San Leandro to the north and west.

RCD is proposing to redevelop several parcels in the Ashland community to provide 85 affordable rental apartments to lower income families and emancipated foster youth. The 1.89 acre site is located at the intersection of East 14th Street and Kent Avenue, adjacent to Edendale Park and Edendale Middle School playfields. The site currently consists of a mobile home park with 13 mobile homes, three single family residences, and several outbuildings. The development of the new Youth Center by the Alameda County Redevelopment Agency adjacent to the site creates an opportunity for service linkages with potential residents.

The site location provides good access to the local and regional roadway network, in addition to various transit options. Three interstate freeways, I-580, I-880, and I-238, are located within several miles of the site, in addition to East 14th Street, a major north-south arterial accessing the neighboring cities. There are several AC Transit routes in the area, in addition to the Bay Fair BART station less than one mile to the west and the Amtrak Capitol Corridor station in Hayward approximately two miles to the south. Numerous local streets provide access within and through Ashland and to the neighboring communities.

Kent Avenue currently intersects East 14th Street at two locations – at a signalized intersection aligning with 164th Avenue and at an unsignalized intersection approximately 100 feet to the northwest of the signalized intersection. Currently, the unsignalized intersection provides right turn access from eastbound East 14th Street to southbound Kent Avenue and right turn access for northbound Kent Avenue to eastbound East 14th Street. A majority of the northbound Kent Avenue to eastbound East 14th Street currently uses the signalized intersection.

As part of this redevelopment plan, the portion of Kent Avenue that aligns with the unsignalized intersection at East 14th Street would be vacated and relinquished by the County from the roadway system and incorporated into the proposed site. This would shift traffic using the unsignalized intersection to use the signalized intersection at 164th Avenue.

Impacts

a), b) and f) Traffic Impact Analysis

A traffic analysis was performed by Kimley-Horn and Associates, Inc. in June 2011, to study the impact of the project on traffic. The analysis concentrated on the proposed project's impacts to intersection operations, pedestrian and bicycle facilities, and the transit network.

[9] *The proposed project is located within the bounds of this area, namely the border of San Leandro and Highway 238.*

For purposes of CEQA and identification of project-specific impacts and mitigation measures, the report evaluated the study area intersection traffic conditions for the AM and PM peak hours under the following scenarios:

- Existing Conditions: Existing traffic volumes obtained from current weekday peak hour traffic counts.
- Existing Plus Project: Existing traffic volumes obtained from counts plus additional vehicular trips generated by the land uses proposed in the Community Plan.
- Cumulative (2035) Conditions – No Project: Estimated traffic volumes for the year 2035 based on growth factors derived from the City/County Association of Governments of San Mateo County (C/CAG) travel forecasting model based on build out of the General Plan.
- Cumulative (2035) Conditions Plus Project: 2035 No Project volumes plus additional vehicular trips generated by the land uses proposed in the Community Plan.

Baseline conditions (Existing and Cumulative No Project) establish background conditions for the evaluation of the project in the future and form the basis for determining and comparing project and cumulative impacts.

The site location provides good access to the local and regional roadway network, in addition to various transit options. Three interstate freeways, I-580, I-880, and I-238, are located within several miles of the site, in addition to East 14th Street, a major north-south arterial accessing the neighboring cities. There are several AC Transit routes in the area, in addition to the Bay Fair BART station less than one mile to the west and the Amtrak Capitol Corridor station in Hayward approximately two miles to the south. Numerous local streets provide access within and through Ashland and to the neighboring communities.

Kent Avenue currently intersects East 14th Street at two locations – at a signalized intersection aligning with 164th Avenue and at an unsignalized intersection approximately 100 feet to the northwest of the signalized intersection. Currently, the unsignalized intersection provides right turn access from eastbound East 14th Street to southbound Kent Avenue and right turn access for northbound Kent Avenue to eastbound East 14th Street. A majority of the northbound Kent Avenue to eastbound East 14th Street currently uses the signalized intersection.

As part of this redevelopment plan, the portion of Kent Avenue that aligns with the unsignalized intersection at East 14th Street would be vacated and relinquished by the County from the roadway system and incorporated into the proposed site. This would shift traffic using the unsignalized intersection to use the signalized intersection at 164th Avenue.

The traffic analysis of the study intersections was conducted in accordance with the requirements from Appendix B of the C/CAG's Congestion Management Plan for 2009. This requires that the latest version of the Highway Capacity Manual (HCM) or the Transportation Board's Circular 212 methodology be used to calculate levels of service.

Level of service (LOS) is a qualitative term describing operating conditions a driver will experience while traveling on a particular street or at an intersection during a specific time interval. It ranges from LOS A (very little delay) to LOS F (long delays and congestion).

Significance Criteria

The thresholds used to determine the significance of transportation impacts are based on standards set based on the type of transportation facility and the jurisdiction that controls the facility, including the County of Alameda and Caltrans. For the analysis, the relevant criteria for impacts at intersections are based on the Alameda County and Caltrans level of service (LOS) guidelines, depending on the jurisdiction of the intersection. The following standards for intersections will be applied, where applicable.

Alameda County intersections and roadway segments

According to Alameda County guidelines, a development is said to create a significant adverse impact on traffic conditions at an intersection if one or more of the following conditions occurred:

- Level of service (LOS) exceeds the conditions expected under the No Project baseline by a full letter grade and:
    - LOS is below E for freeways;
    - LOS is below C for all other major streets and highways during non-peak travel periods and below D during peak travel periods.
- When LOS under the No Project baseline condition is already below standard for peak hours and:
    - Traffic generated by the proposed Plan causes a change in volume-to-capacity (V/C) ratio of three (3) percent or more (the 3 percent level has been found to be the threshold for which a perceived change in congestion is observed, and is equivalent to about one-half of the change from one level of service to the next); or
    - The proposed Plan causes the average delay per vehicle at an intersection to exceed that of the No Project condition by 5 seconds or more.

California Department of Transportation (Caltrans) intersections

The study area intersections along East 14th Street are under the jurisdiction of Caltrans. The Guide for the Preparation of Traffic Impact Studies (2002) defines the following LOS standards for State-operated facilities, which include intersections on State Routes:

- Caltrans endeavors to maintain a target LOS at the transition between LOS C and LOS D.
- If an existing State-operated facility is operating at less than LOS C, the existing LOS should be maintained. Caltrans staff has indicated that Caltrans considers any increase in traffic to a state-operated facility operating at an unacceptable level of service is considered a significant impact.

Pedestrian System Impact Criteria

A significant impact related to the pedestrian system would occur if the implementation of the proposed project causes:

- Disruption to existing pedestrian facilities, or interferes with planned pedestrian facilities;
- Inconsistencies with adopted pedestrian system plans, guidelines, policies, or standards;
- Vehicles to cross pedestrian facilities on a regular basis without adequate design and/or warning systems, causing safety hazards.

Bicycle System Impact Criteria

Bicycle impacts are considered significant if implementation of the project results in any of the following:

- Disrupts existing, or interferes with planned bicycle facilities;
- Creates inconsistencies with adopted pedestrian system plans, guidelines, policies, or standards;
- Increases potential for bicycle/vehicle conflicts.

Transit System Impact Criteria

Transit impacts are considered significant if implementation of the project results in the following:

- Disrupts existing, or interferes with planned transit services or facilities;
- Creates inconsistencies with adopted transit system plans, guidelines, policies, or standards;
- Creates demand for public transit services above that which is provided or planned.

Existing Conditions

Intersections

Intersection turning movement counts were collected on a typical weekday between 7:00-9:00 AM and 4:00-6:00 PM at all of the study area intersections. The traffic counts were conducted on May 24, 2011. A field visit was also conducted to observe intersection geometry, intersection control, pedestrian and bicycle accessibility, and queue lengths.

The following intersections were evaluated under existing conditions for the AM and PM peak hours:

1. East 14th Street (SR 185) and Ashland Avenue (signal)
2. East 14th Street (SR 185) and 164th Avenue /Kent Avenue (signal)
3. Kent Avenue and Elgin Street (all-way stop controlled)
4. East 14th Street (SR 185) and 167th Avenue/Elgin Street (signal)
5. Kent Avenue and Delano Street (two-way stop controlled)

Table 9 Existing Conditions - Intersection Levels of Service

Intersection	Traffic Control	Peak Hour	Average Delay[1]	LOS[2]	LOS Standard[3]
1. East 14th Street and Ashland Avenue	Signal	AM PM	23.4 14.2	C B	C/D
2. East 14th Street and 164th Avenue/Kent Avenue	Signal	AM PM	21.9 16.3	C B	C/D
3. Kent Avenue and Elgin Street	AWSC	AM PM	7.9 7.6	A A	D
4. East 14th Street and 167th Avenue/Elgin Street	Signal	AM PM	18.7 18.0	B B	D
5. Kent Avenue and Delano Street	TWSC	AM PM	13.1 10.8	B B	C/D

Notes:

1. Whole intersection weighted average total delay for signalized and all-way stop-controlled intersections (expressed in seconds per vehicle).
2. LOS calculations performed using the 2000 *Highway Capacity Manual*.
3. LOS standard for Caltrans and Alameda County.
4. Unacceptable operations are indicated in **bold** type.
5. AWSC – All-Way Stop controlled, TWSC – Two-Way Stop controlled

As Table 8 illustrates, all of the study area intersections currently operate at acceptable levels of service.

Roadway Segments

In addition to intersection analysis, the County requested that several roadway segments also be analyzed for potential impacts. Therefore, a peak hour roadway segment analysis was conducted on Ashland Avenue, Elgin Street, Kent Avenue, and Delano Street in the vicinity of the project site. The peak hour roadway volumes were derived from the peak hour intersection turning movement counts collected in May 2011.

All four roadway segments are two lane roads classified as collector streets by the County. Capacity of the roadways was estimated using the Florida Department of Transportation methodology for roadway segment analysis. This methodology is based on the 2000 Highway Capacity Manual, which is generally accepted as the standard practice for traffic engineering. The methodology uses peak hour traffic volumes to determine LOS for general planning applications. This methodology assesses the capacity of a roadway based on the number of lanes, number of signalized intersections per mile, presences of left and right turn lanes, and other factors.

Applying reductions to account for the roadways not being classified as state routes and not providing exclusive left turn and right turn lanes, the roadway capacity can be calculated for each service level. The volumes are the upper limit for that service level. Based on this methodology and the study roadway characteristics, the two-way, peak hour threshold for LOS B is 512 vehicles, LOS C is 825 vehicles, and LOS D is 880 vehicles. A roadway segment with more than 880 vehicles per hour would operate at LOS F.

Table 10 Existing Conditions - Roadway Segment Levels of Service

Roadway	Segment	AM Peak Two-Way Volume	AM LOS	PM Peak Two-Way Volume	PM LOS
Ashland Avenue	South of East 14th Street	620	C	480	B
Elgin Street	West of East 14th Street	224	B	275	B
Kent Avenue	South of East 14th Street	357	B	305	B
Delano Street	West of Kent Avenue	393	B	308	B

As Table 9 illustrates, all of the study area roadway segments currently operate at acceptable levels of service.

Transit Network

Two key transit agencies provide public transportation options in the vicinity of the study area – AC Transit operates fixed bus routes and the Bay Area Rapid Transit (BART) provides commuter heavy rail. The Amtrak Capital Corridor provides train service from San Jose to Sacramento and can be accessed at a Hayward station approximately two miles south of the proposed development.

Bus Service

Alameda County transit service is provided by AC Transit, which operates several bus routes that travel with the proposed study area.

Route 32 – This bus route runs along 164th Avenue and East 14th Street through the study area. It is a local community route connecting Hayward with the unincorporated communities of Castro Valley, Ashland, and Cherryland and provides access to the Bay Fair BART, Hayward BART, and Castro Valley BART stations. This two-way loop route operates on weekdays and weekends with 60 minute weekday headways per direction from 5 AM to 9 PM.

Route 75 – This bus route runs along Ashland Avenue and Elgin Street adjacent to the study area. It is a local community route connecting Foothill Square in Oakland with the Downtown San Leandro BART and Bay Fair BART stations and Ashland. This two-way loop route operates on weekdays only with 60 minute headways per direction from 5:30 AM to 8:30 PM.

Route 93 – This bus route runs along East 14th Street through the study area. It is a local community route connecting Hayward at the Hayward BART station with the unincorporated communities of Ashland, San Lorenzo, and Cherryland with the Bay Fair BART station. This two-way loop route operates on weekdays and weekends with 60 minute weekday headways per direction from 5 AM to 9 PM.

Route 99 – This bus route runs along East 14th Street through the study area. This multi-city route connects the Bay Fair BART, Hayward BART, South Hayward BART, Union City BART, and Fremont BART stations. The route operates on weekdays and weekends with 30 to 60 minute weekday headways from 5:30 AM to 12:30 AM.

Route 801 – This bus route operates as the night route for Route 99. The route operates on weekdays and weekends with 60 minute weekday headways from 12:30 AM to 5:30 AM.

There are currently several bus stop locations within one block of the proposed development. A bus stop for the westbound East 14th Street routes is located at the intersection of East 14th Street and Kent Avenue adjacent to the proposed development. A stop for the westbound East 14th Street routes is located at the intersection of East 14th Street and 163rd Avenue. A stop for the routes along Kent Avenue north of East 14th Street is located along Kent Avenue north of East 14th Street.

Rail Service

BART provides heavy rail rapid transit service throughout the counties of Contra Costa, Alameda, San Francisco, and San Mateo with stations in most major cities in these counties. Trains generally operate with 10 to 20 minute headways during weekdays and weekends. The Bay Fair BART station is located approximately three-quarters of a mile west of the proposed development south of Bayfair Center at Hesperian Boulevard and Thornally Drive. Approximately 4,900 people access BART on a typical weekday from this station. There are no existing at-grade railroad crossings within the study area as the BART tracks are elevated.

Paratransit

East Bay Paratransit is provided by both AC Transit and BART. The Americans with Disabilities ACT (ADA) requires that all bus and rail companies provide paratransit service to riders whose disabilities prevent them from using regular public transit. The two agencies work cooperatively together to provide ADA service for individuals who are eligible.

Bicycle Facilities

The Alameda County Bicycle Master Plan for Unincorporated Areas (March 2007) provides a discussion of bikeways throughout the County and illustrates the bicycle facilities network. As referenced in this plan, cities generally follow state definitions for bikeways, which identify three distinct types of bicycle facilities: bike paths, bike lanes and bike routes. These facilities are defined as follows:

- Class I Bikeway (Bike Path or Bike Trail): Provides completely separated right-of-way designated for the exclusive use of bicycles and pedestrians with cross-flows by motorists minimized.
- Class II Bikeway (Bike Lane): Provides a restricted right-of-way designated for the exclusive use or semi-exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and cross-flows by pedestrians and motorists provided.

- Class III Bikeway (Bike Route): Provides a right-of-way designated by signs or permanent markings and shared with pedestrians or motorists.

Within the study area, 164th Avenue from East 14th Street to Liberty Street and 167th Avenue from East 14th Street to Liberty Street provide Class II bike lanes. The Alameda County Bicycle Master Plan for Unincorporated Areas (March 2007) includes the following proposed improvements to the bicycle network near the study area:

- Bike lanes along Ashland Avenue from East 14th Street to Lewelling Boulevard;
- Bike route along East 14th Street from San Leandro City Limit to south of I-238; and
- Bike route along Elgin Street from East 14th Street to Bay Fair BART Station.

Pedestrian Facilities

The Alameda County Pedestrian Master Plan for Unincorporated Areas (July 2006) provides a discussion of pedestrian facilities throughout the County. Sidewalks currently exist through much of the study area along the study area roadways typically located at the backside of the curb. There are also several street pedestrian crossings located within the study area.

Signalized Intersections with Pedestrian Crossings – These crossings have marked crosswalks and pedestrian activated signal control. Pedestrian signal heads are provided. Most signalized crossings provide crosswalks on all approaches of the intersection, but several locations do not provide pedestrian crosswalks for one or more approach. The following intersections within the study area provide key signalized pedestrian crossings:

- East 14th Street and 167th Avenue/Elgin Street
- East 14th Street and 165th Avenue
- East 14th Street and 164th Avenue/Kent Avenue – east side crossing only
- East 14th Street and 162nd Avenue – west side crossing only
- East 14th Street and Ashland Avenue – east side crossing only

Unsignalized Intersection with Marked School Crossings – These crossings are standard yellow transverse-style crosswalks indicating a school crossing. Several school crossings are provided within the study area:

- Ashland Avenue south of East 14th Street (mid-block crossing)
- Ashland Avenue and Bertero Avenue
- Ashland Avenue and Delano Street

Unsignalized Intersections with No Marked Crossings – These intersections are legal crossing points but have no marked or signed facilities. There are numerous crossings of this type in the study area.

Existing plus project conditions

The existing plus project scenario is an artificial scenario that identifies specific impacts of the proposed plan for comparative purposes. The peak hour traffic volumes for this scenario were developed by adding the net new trips generated by the proposed project to the existing traffic volumes. It will also evaluate potential ramifications to pedestrian, bicycle, and transit circulation. No roadway improvements have been incorporated in this scenario's analysis. Overall, traffic patterns are not anticipated to change significantly since the primary roadway network remains the same.

The Institute of Transportation Engineer's (ITE) Trip Generation, 8th Edition, was used to estimate daily and peak-hour trip generation that can be attributed to the development of the proposed project. The proposed development will generate 470 net new daily trips, 35 net new AM peak hour trips, and 42 net new PM peak hour trips.

Each study area intersection was analyzed using the proposed intersection geometry and traffic control. The new net trips were calculated and added to the existing traffic volumes to develop the existing plus project traffic volumes.

Table 11 Existing Plus Project Conditions - Intersection Levels of Service

Intersection	Traffic Control	Peak Hour	Existing Conditions		Existing Plus Project		LOS Standard[3]	Significant Impact
			Avg. Delay[1]	LOS[2]	Avg. Delay[1]	LOS[2]		
1. East 14th Street and Ashland Avenue	Signal	AM PM	23.4 14.2	C B	23.4 14.2	C B	C/D	No
2. East 14th Street and 164th Avenue/Kent Avenue	Signal	AM PM	21.9 16.3	C B	22.1 17.2	C B	C/D	No
3. Kent Avenue and Elgin Street	AWSC	AM PM	7.9 7.6	A A	7.9 7.6	A A	D	No
4. East 14th Street and 167th Avenue/Elgin Street	Signal	AM PM	18.7 18.0	B B	18.6 17.9	B B	D	No
5. Kent Avenue and Delano Street	TWSC	AM PM	13.1 10.8	B B	13.2 10.9	B B	C/D	No
6. Kent Avenue and Proposed Site Driveway	TWSC	AM PM			10.7 10.4	B B	D	No

Notes:
1. Whole intersection weighted average total delay for signalized and all-way stop-controlled intersections (expressed in seconds per vehicle).
2. LOS calculations performed using the 2000 *Highway Capacity Manual*.
3. LOS standard for Caltrans and Alameda County.
4. Unacceptable operations are indicated in **bold** type.
5. AWSC – All-Way Stop controlled, TWSC – Two-Way Stop controlled

As shown in Table 10, the average intersection delay times for the study area intersections would remain the same or increase with the addition of vehicle trips generated by the proposed development. However, all study intersections in the Existing plus Project scenario would continue to operate at acceptable levels of service. Therefore, mitigation is not required at the study area intersections.

Table 12 Existing Conditions - Roadway Segment Levels of Service

Roadway	Segment	AM Peak Two-Way Volume	AM LOS	PM Peak Two-Way Volume	PM LOS
Ashland Avenue	South of East 14th Street	620	C	480	B
Elgin Street	West of East 14th Street	224	B	275	B
Kent Avenue	South of East 14th Street	388	B	343	B
Delano Street	West of Kent Avenue	397	B	313	B

As shown in Table 11, the two-way peak hour traffic volumes for the study area roadway segments would remain the same or increase with the addition of vehicle trips generated by the proposed development. However, all study roadway segments in the Existing plus Project scenario would continue to operate at acceptable levels of service. Therefore, mitigation is not required at the study area roadway segments.

As noted previously, the project would be considered to have a significant impact if it conflicted with adopted policies, plans, or programs supporting alternative transportation (e.g., bicycle racks) or generate pedestrian and bicycle travel demand that would not be accommodated by current pedestrian facilities or bicycle development plans.

The proposed development will potentially generate pedestrian demand. Currently, sidewalks exist along the vast majority of roadways within the area, including East 14th Street and Kent Avenue. The development will also improve pedestrian access at the site by constructing eight-foot sidewalks along Kent Avenue and improving the sidewalk along East 14th Street to match those being constructed as part of the East 14th Street/Mission Boulevard Streetscape Project. This project is not anticipated to interfere with any of the existing or planned pedestrian facilities. Pedestrian access to the Youth Center is an easy walk of less than one block from the front entrance of the housing development.

There are several existing and planned bicycle facilities in the vicinity of the proposed development. The development will potentially generate bicycle demand. It is expected that the planned bicycle facilities will be able to accommodate the future bicycle demand generated by the proposed development. The project's traffic generation or site access would not create any changes to the existing or planned bicycle facilities. Therefore, the Project would not result in any adverse impacts to bicyclists. The proposed project would not interfere with existing or planned pedestrian or bicycle facilities. Thus, the project's impact on pedestrian and bicycle facilities is determined to be ***less than significant***.

It is expected that the proposed development may generate transit ridership. There are currently bus routes along East 14th Street that travel by the proposed development. Bus stops are currently located at the intersections of East 14th Street and Kent Avenue and East 14th Street and 163rd Avenue, all within walking distance of the proposed development. The Bay Fair BART station is also less than one mile to the west of the site, providing an additional transit option for future residents. BART is planning to expand its rail system south to Milpitas, San Jose, and Santa Clara, providing another transit option to and from the South Bay. The proposed development would not interfere with existing or planned transit service or transit stops, and dispersion of the project-generated riders to the various existing bus routes and train service is expected to result in a minimal effect on transit capacity. Thus, the project's impact on transit facilities is determined to be ***less than significant***.

Cumulative (Year 2035) Plus Project Conditions Impact Analysis

The average intersection delay times for the study area intersections would remain the same or increase with the addition of vehicle trips generated by the proposed development. However, all study intersections in the Cumulative

plus Project scenario would continue to operate at acceptable levels of service. Therefore, mitigation is not required at the study area intersections. It is recommended that the northwest corner radii at the intersection of East 14th Street and Kent Avenue be modified to accommodate the eastbound right turn movement due to the closure of the unsignalized Kent Avenue access. The intersection should be redesigned to accommodate a WB-40 design vehicle.

The two-way peak hour traffic volumes for the study area roadway segments would remain the same or increase with the addition of vehicle trips generated by the proposed development. However, all study roadway segments in the Existing plus Project scenario would continue to operate at acceptable levels of service. Therefore, mitigation is not required at the study area roadway segments.

Implementation of the project under Cumulative plus Project conditions would generate pedestrian and bicycle trips, which would use the existing and planned circulation network in the project area. (***Less than significant***)

Implementation of the project under Cumulative plus Project conditions would generate transit trips, which would use the existing and planned transit network in the project area. (***Less than significant***)

Source documentation: (49)

c) Air Traffic Patterns

There would be ***no impact*** to air traffic patterns as a result of the proposed project. Source documentation: (40) (41)

d) Traffic Hazards

It is recommended that the northwest corner radii at the intersection of East 14th Street and Kent Avenue be modified to accommodate the eastbound right turn movement due to the closure of the unsignalized Kent Avenue access. The intersection should be redesigned to accommodate a WB-40 design vehicle. Project impacts are ***less than significant.*** Source documentation: (49)

e) Emergency Access

Adequate emergency access is provided to the proposed project as demonstrated in the figure that follows. Project impacts are ***less than significant***. Source documentation: (8)

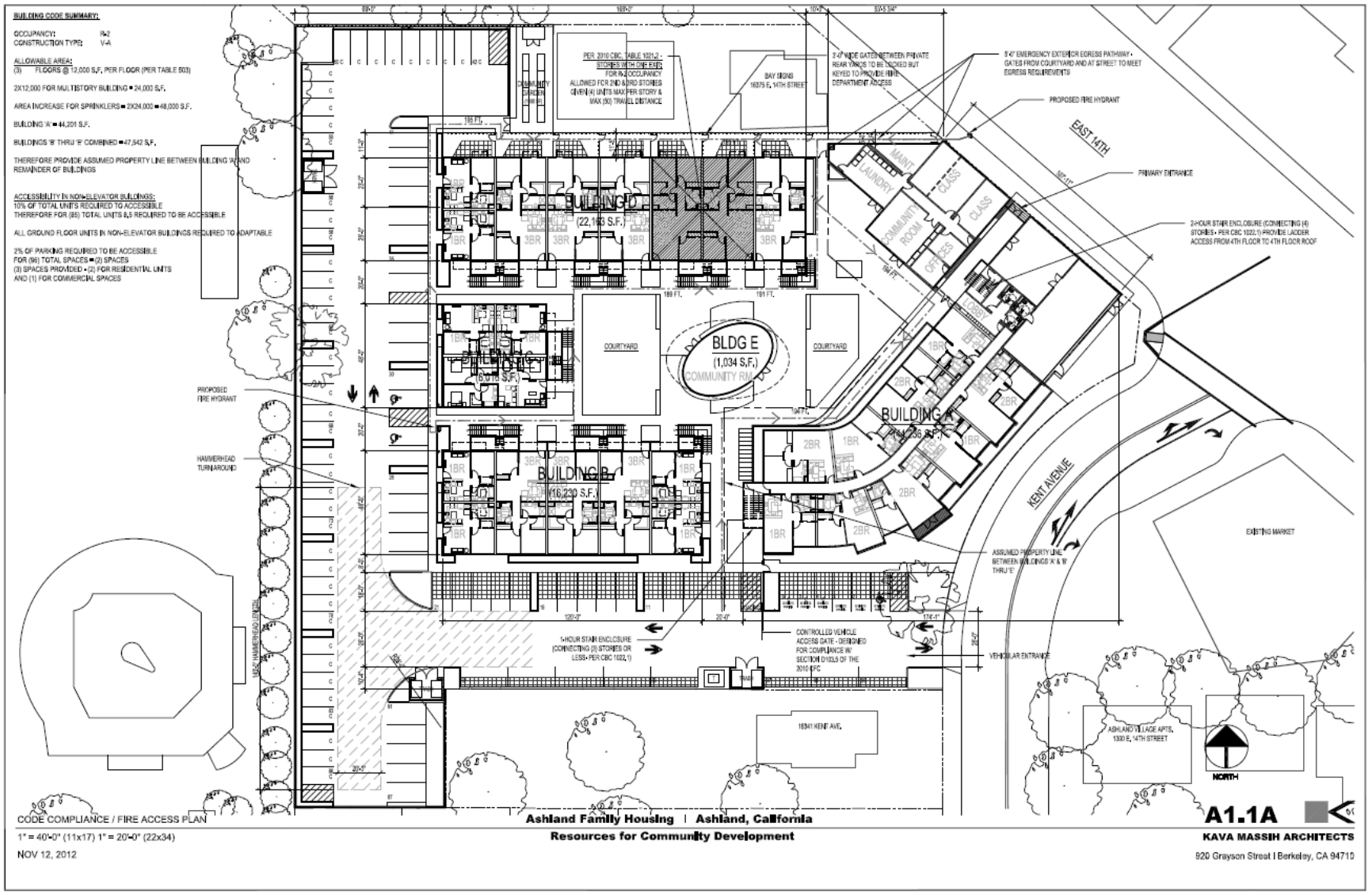


Figure 7 Fire Access Plan

XVII. *UTILITIES AND SERVICE SYSTEMS* Would the project:	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?			x	
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?			x	
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?			x	
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?			x	
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?			x	
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?			x	
g) Comply with federal, state, and local statutes and regulations related to solid waste?				x

a), b) and e) Waste Water

The Oro Loma Sanitary District provides sewer services to the project area. The District collects sewage for more than 46,000 households and 1,100 businesses. There are approximately 280 miles of sewer lines located in the District and maintained by it. The District has 14 lift stations, which help sewage flow through the lines to the treatment plant.

The District's treatment plant is jointly owned by the Oro Loma Sanitary District (75%) and the Castro Valley Sanitary District (25%), has a permitted capacity of 20 million gallons per day, and it treats an average dry weather flow of 10.95 million gallons per day. The District treats the wastewater to a secondary level through physical, biological, and chemical processes. The treated water, called effluent, is safely disposed of through a collectively-owned discharge pipe into the deep waters of the San Francisco Bay. The tidal action of the bay dilutes the water and takes it into the Pacific Ocean. The plant recovers approximately 11 dry tons of biosolids per day. The biosolids are safely processed for beneficial use.

It is anticipated that the proposed project would represent only a small increase in the population of the Ashland area, so wastewater flows would also increase by a very small amount, and existing facilities are sufficient to convey and treat this increase. Project impacts are ***less than significant.*** Source documentation: (26) (59)

d) Water Supply

The East Bay Municipal Utility District (EBMUD) supplies water to approximately 1.3 million people in Alameda and Contra Costa Counties. Most of EBMUD's water comes from the 577-square-mile Mokelumne River watershed. Water is collected at the Pardee Reservoir in Amador County and distributed to the nearby Camanche Reservoir, and the Mokelumne Aqueducts, which carry water to the East Bay. EBMUD maintains reservoirs within its East Bay service area that include the Briones, Chabot, Lafayette, San Pablo, and Upper San Leandro reservoirs. EBMUD has rights to divert approximately 325 million gallons of water per day from the Mokelumne River.

According to the EBMUD's Urban Water Management Plan 2000, customer demand was approximately 230 million gallons of water per day in 2000. EBMUD forecasts that customers within the supply area would demand about 277 million gallons per day by 2020. With implementation of conservation techniques and use of recycled water, water demand could be reduced to 229 mgd. However, if the District experiences a series of dry years, there would be a shortage of as much as 154 mgd.

EBMUD has undertaken several efforts to boost its dry-year water supply, including:

- obtaining a license for Mokelumne entitlements that maximizes benefits to District customers,
- Diversifying water supply through regional partnerships and completing the Water Supply Management Program (WSMP) 2040 to prioritize conjunctive use, desalination, and other water supply opportunities and cost-effectively improve reliability.
- Constructing the Freeport Regional Water Project to take water from the Sacramento River during dry years.
- Maintaining updated plans which document supply and demand conditions,
- Analyzing future needs, anticipate obstacles, and prescribing strategies and actions for meeting future requirements consistent with District policy.
- Integrating the District's water supply and infrastructure planning efforts into the Statewide Bay Delta Vision process.

EBMUD currently provides water service to the project site. Total project demand would be a maximum 30,240 gallons of water per day (using EBMUD's estimated daily demand of 70 gallons per person per day and a maximum of 432 tenants). The project represents a net increase over what has been provided to the existing mobile home park and single family residences. According to EBMUD, it has an "obligation to serve" all customers within their jurisdiction as long as the water use is not considered to be wasteful.

The project's impact on the supply of water would be ***less than significant***. Source documentation: (43) (44)

f) and g) Solid Waste

Solid waste collection and disposal services for the proposed project would be provided by the Oro Loma Sanitary District. The Oro Loma Sanitary District was formed in 1911. The District's enabling legislation is the Sanitary Act of 1923 of the State Health & Safety Code, which empowers the District to provide sewer, solid waste, and recycling services as a special district of local government.

The District encompasses 13 square miles, serving the communities of San Lorenzo, Ashland, Cherryland, Fairview, portions of Castro Valley, and the Cities of Hayward and San Leandro. The District oversees scheduled garbage collection services provided by Waste Management of Alameda County (WMAC) a private collection company, for more than 46,000 residential and commercial customers.

The District provides residential recycling and green waste programs for the entire District, which includes the unincorporated areas of Alameda County and 40% of the City of San Leandro. These programs are intended to reduce solid waste in accordance with the California Integrated Waste Management Act of 1989 and Alameda County Measure D. The project would have ***no impact*** in this regard.

The site is already served with solid waste disposal service; therefore the project only represents and incremental net increase over what is already provided. The creation of residences on the project site, any associated jobs created and any minor increases in business activity in the surrounding commercial area would generate a small increase in demand for solid waste collection services. However, this small increase in demand would not exceed the capacity of or reduce the capability of services in the Ashland area and would not require the construction of additional solid waste management facilities. Project impacts are ***less than significant***. Source documentation: (26) (59)

c) Storm Water

A complete discussion of the effects of stormwater runoff can be found under section *IX. Hydrology and Water Quality.*

XVIII. ***MANDATORY FINDINGS OF SIGNIFICANCE***	***Potentially Significant Impact***	***Less than significant with Mitigation***	***Less than significant***	***No Impact***
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?		X		
b) Does the project have impacts that are individually limited but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?		X		
c) Does the project have environmental effects which cause substantial adverse effects on human beings, either directly or indirectly?		X		

a) Quality of the Environment

This Initial Study does not indicate that there are any biology, hydrology or water quality impacts associated with the proposed project that cannot be mitigated. There is no evidence to indicate that there are any fish or wildlife populations that would be significantly affected by the proposed project. Implementation of the project would not threaten to eliminate a plant or animal, nor reduce the number nor restrict the range of a rare or endangered plant or animal species. Source documentation: (27) (28) (42)

There are no known historic or known cultural resources in the project area that could be adversely affected by the project. Source documentation: (11) (12) (31) (33) (34)

The project will have an impact on the quality of the environment that is ***less than significant with mitigation.***

b) Cumulative Impacts

The proposed project would not have impacts that are individually limited but cumulatively considerable. The Conditions of Approval would address the majority of the potential impacts for this project.

Issue areas that typically have the potential to result in cumulative impacts include Air Quality, Biological Resources, Land Use, Population (and corresponding impacts to Housing, Public Services, and Utilities and Services), and Transportation and Traffic. However, no cumulative impacts were identified in these areas, and the potential impacts in these areas are reduced to a ***less than significant with mitigation*** level through implementation of mitigation measures adopted as Conditions of Approval.

- Regarding Air Quality, the Project is consistent with the local CAP and the General Plan. The BAAQMD CEQA Guidelines state that if a project is consistent with the local CAP and General Plan, then it would not have a significant cumulative impact.

- Regarding Land Use, the project site is in an urbanized area, surrounded by like development, and would therefore be considered infill.

- Regarding Population (and associated issue areas), the proposed project would be consistent with both the General Plan and ABAG population projections; consequently, there would be no cumulative impacts to population associated issue areas such as Housing, Public Services or Utilities and Services.

- Finally, regarding Transportation and Traffic, the trip-generation analysis prepared for this project determined that the project would not contribute to any significant cumulative traffic impacts.

Therefore, for the reasons discussed above, there are no significant cumulative impacts as a result of this project. Source documentation: (2) (49) (23) (3)

c) Adverse Effects on Human Beings

The project could have environmental effects which would cause substantial adverse effects on human beings, either directly or indirectly, including air quality, geological considerations, minor flooding, loss of cultural resources and noise. With the implementation of the required mitigation measures and all other requirements of the Alameda County General Ordinance, all of the identified impacts on the natural environment would be reduced to a level of ***less than significant with mitigation.*** Source documentation: (26)

Chapter 5 – Preparer & References

Report Preparer:

Vern Miller, Principal
Cinnamon Crake, Associate
AEM Consulting LLC
310 Pacific Heights Drive
Santa Rosa, CA 95403
Phone: (707) 523-3710
FAX: (707) 523-1033
Email: aem@aemconsulting.net

Source Documentation:

1. **County of Alameda.** *Eden Area General Plan.* August 2006.

2. **Alameda County Planning Department.** *Ashland and Cherryland Business Districts Specific Plan.* Adopted by the Alameda County Board of Supervisors June 1, 1995.

3. **Kava Massih Architects.** *Architectural Drawings & Plans, Ashland Family Housing, San Leandro, CA.* Berkeley, CA : s.n., November 12, 2012.

4. **Orduna, Rodrigo.** *E-mail to Vern Miller regarding trees.* [E-mail] November 8, 2012, 4:23 PM.

5. **Alameda County Parks, Recreation, and Historical Commission.** *Alameda County Landmarks & Contributing Buildings Identified in 2005-2008 Comprehensive Survey.* Available online at: http://www.acgov.org/cda/planning/landuseprojects/documents/phrcList.pdf.

6. **AEM Consulting LLC.** *Historic & Cultural Resources Evaluation, Historic Resources Evaluation for Section 106 Review, Ashland Family Apartments.* May 24, 2011.

7. **Alameda County.** *Historic Preservation Ordinance.*

8. **Siegel & Strain Architects.** *Preliminary Cultural Resources Survey, Ashland & Cherryland Districts, San Lorenzo, Alameda County, California.* April 30, 1998.

9. **Alameda County.** *Alameda County Landmarks & Contributing Buildings Identified in 2005-2008 Comprehensive Survey.*

10. *Park, Recreation and Historical Commission Meeting.* **Robinson-Pinon, Angela.** Hayward : City of Hayward, December 6, 2012.

11. **Google.** *Earth.* [Computer Application] s.l. : Google, 2012.

12. **United States Department of Agriculture.** *Soil Survey of Alameda County.* s.l. : Soil Conservation Service, May 1991.

13. **Bay Area Air Quality Management District.** *CEQA GUIDELINES - Risk and Hazard Screening Analysis Process - Assessing Toxic Air Contaminants.* San Francisco, CA : s.n., 2010. Guidelines. The referenced screening tools provide estimates for PM2.5 concentrations, cancer risk, chronic hazard risk, and acute hazard risk..

14. **RGA Environmental Inc.** *Environmental Site Assessment Report, Ashland Housing Project.* Emeryville, CA : s.n., May 13, 2011. RGA Project Number: RCD27554.

15. **RGA Environmnental, Inc.** *Limited Asbestos and Lead Survey Report, Ashland Housing Project.* Emeryville, CA : s.n., May 4, 2011. RGA Project No. RCD27554.

16. **Blackie, Belinda P.** *Phase I Environmental Site Assessment, Joe Parcel, San Lorenzo, California.* San Jose, CA : s.n., May 8, 2012.

17. **Bay Area Air Quality Management District.** *REGULATION 11 - HAZARDOUS POLLUTANTS.* San Francisco, California : BAAQMD, October 7, 1998. Rule 2 - Asbestos Demolition, Renovation and Manufacturing.

18. **Miller, Vern.** *Air Quality Assessment, Ashland Family Apartments/Mixed Use, Ashland, California.* Santa Rosa, CA : AEM Consulting LLC, October 10, 2012.

19. **United States Fish & Wildlife Service.** National Wetlands Inventory. [Online] [Cited: September 20, 2012.] http://www.fws.gov/nwi.

20. **Federal Emergency Management Agency (FEMA).** *Flood Insurance Rate Map (FIRM).* Alameda County, California : s.n., Effective Date August 3, 2009. FIRM Map Panel Number # 06001C0278 G.

21. **WRA Environmental Consultants, Inc.** *Letter to Alicia F. Klein, RCD in RE: Ashland Family Housing, 16309-16331 Kent Avenue, San Lorenzo, California - Biological Reconnaissance.* San Rafael, CA : s.n., November 7, 2012.

22. **State of California.** *California Coastal Commission.* [Online] [Cited: May 3, 2011.] http://www.coastal.ca.gov/.

23. **Miller, Vern, Principal.** *Site Visits and Personal Knowledge.* s.l. : AEM Consulting, September 20, 2012. Report Preparer/Site Visits.

24. **California Department of Fish and Game.** Endangered Species List for Hayward Quad. *CNDDB Quick Viewer.* [Online] [Cited: September 21, 2012.] http://imaps.dfg.ca.gov/viewers/cnddb_quickviewer/app.asp.

25. **U.S. Fish & Wildlife Services.** *Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Hayward (447A) U.S.G.S. 7 1/2 minute Quad.* Sacramento, CA : s.n., Database last updated: September 18, 2011; Report Date: September 21, 2012.

26. **Tom Origer & Associates, Inc.** *A Cultural Resources Survey for theAshland Family Housing Project, San Lorenzo, Alameda County, California.* Rohnert Park, CA : s.n., May 19, 2011.

27. **Strother, Eric.** *Letter to Mr. Vern Miller, AEM Consulting.* Rohnert Park, CA : Tom Origer & Associates, Inc., June 30, 2011.

28. **Carey & Co.** *Intensive Survey of Fifty Properties in Unincorporated Alameda County.* March 2008. DPR Form 523.

29. **Pilas-Treadway, D.** *Record Search for Native American Sacred Lands.* Sacramento, CA : Native American Heritage Commission, May 5, 2011.

30. **Jensen-Van Lienden Associates, Inc.** *Geotechnical Engineering Study, 16309 Kent Avenue, San Lorenzo, California.* Berkeley, CA : s.n., May 18, 2011. Job No. X129AA.

31. **Bay Area Air Quality Management District.** *Adopted Air Quality CEQA Thresholds of Significance.* San Francisco : s.n., June 2, 2010.

32. **Vern Miller.** *CalEE MoD Dataset: Combined Operational and Construction related Annual and Greenhouse Gas Emissions.* Santa Rosa, CA : AEM Consulting, October 2012.

33. **Alameda County ALUC.** *Draft Oakland International Airport Airport Land Use Compatibility Plan.* Sacramento, CA : ESA Associates, September 2010. ESA Airports / 202229.

34. **Federal Aviation Administration.** Airport Noise and Land Use Information, including Noise Exposure Maps (NEMs). *Noise Exposure Map for Oakland International Airport.* [Online] September 14, 2010. [Cited: March 7, 2011.] http://www.faa.gov/airports/environmental/airport_noise/noise_exposure_maps/.

35. Hayward Air Terminal, Hayward, CA USA (KHWD/HWD). *rsvpAIR, The Air Charter Directory*. [Online] [Cited: May 5, 2011.] http://www.rsvpair.com/findAirport/icao/KHWD.html.

36. Hayward Air Terminal -- Air Traffic Map. [Online] [Cited: May 5, 2011.] http://haywardairportnoise.org/hat-map1.html.

37. **Alameda County Community Development Agency.** *Resolution Adopting a Mitigated Negative Declaration and Approval of a Master Plan for the Ashland Youth Center Project.* May 19, 2009.

38. **East Bay Municipal Utility District.** *Urban Water Management Plan.* s.l. : Water Resources Planning Division, 2005.

39. **East Bay Municipal Utility District (EBMUD).** *Strategic Plan.* July 2008.

40. **United States Environmental Protection Agency.** Sole Source Aquifers. *Source Water Protection.* [Online] [Cited: February 1, 2011.] http://www.epa.gov/region9/water/groundwater/ssa.html.

41. **Alameda County Public Works Agency Clean Water Division.** *Stormwater Quality Control Requirements, Alameda County Unincorporated Areas.* September 2005.

42. **Alameda County Public Works Agency.** *Stormwater Quality Control Requirements.* September 2005.

43. **County of Alameda.** *Eden Area General Plan.* August 2006. Pages 3-22 through 3-26.

44. **Alameda County Community Development Agency.** *Alameda County General Plan Housing Element.* Adopted: March 30, 2010; Amended: April 12, 2011.

45. **FOCUS.** Plans - East 14th Street and International Boulevard. *FOCUS, a development and conservation strategy for the San Francisco Bay Area*. [Online] [Cited: November 13, 2012.] http://www.bayareavision.org/corridors/e14int/e14int-plans.htm.

46. **Alameda County.** *East 14th Street/Mission Boulevard Master Plan.* 1999.

47. **California Department of Transportation.** *East 14th Street Master Plan.*

48. —. *East 14th Street/Mission Blvd Streetscape Project.*

49. **Kimley-Horn and Associates, Inc.** *Ashland Family Housing, Final Traffic Impact Analysis.* June 2011.

50. **Charles M. Salter Associates, Inc.** *Letter to Alicia Klein, Resources for Community Development in RE: Ashland Family Housing - Ashland, CA, Environmental Noise Study.* San Francisco, CA : s.n., October 16, 2012. CSA Project: 12-0473.

51. **Kava Massih Architects.** *Architectural Drawings & Plans, Ashland Family Housing, San Leandro, CA.* Berkeley, CA : s.n., September 5, 2012.

52. **Title 42--The Public Health And Welfare.** Chapter 61 -- Uniform Relocation Assistance and Real Property Acquisition Policies for Federal and Federally Assisted Programs.

53. Alameda County Fire Department. *Alameda County's Official Website.* [Online] [Cited: May 5, 2011.] http://www.acgov.org/fire/.

54. Alameda County Sheriff's Office. [Online] [Cited: May 5, 2011.] http://www.alamedacountysheriff.org/.

55. *San Lorenzo Unified School District.* [Online] [Cited: May 4, 2011.] http://www.slzusd.org/.

56. Don Edwards S.F. Bay National Wildlife Refuge. *U.S. Fish and Wildlife Service.* [Online] [Cited: May 5, 2011.] http://www.fws.gov/desfbay/.

57. Lake Chabot Regional Park. *East Bay Regional Park District.* [Online] [Cited: May 5, 2011.] http://www.ebparks.org/parks/lake_chabot.

58. Recreation Services and Programs. *East Bay Regional Park District.* [Online] [Cited: May 5, 2011.] http://www.ebparks.org/activities/recreation.

59. *Oro Loma Sanitary District.* [Online] [Cited: May 4, 2011.] http://www.oroloma.org/.

Appendix A – Air Quality

- **Miller, Vern.** *Air Quality Assessment, Ashland Family Housing/Mixed Use, Ashland, California.* Santa Rosa, CA : AEM Consulting LLC, October 10, 2012.

Air Quality Assessment

Ashland Family Apartments/Mixed Use

Ashland, California

October 10, 2012

Prepared for:
Alameda County & Eden Housing

Prepared by:
Vern Miller

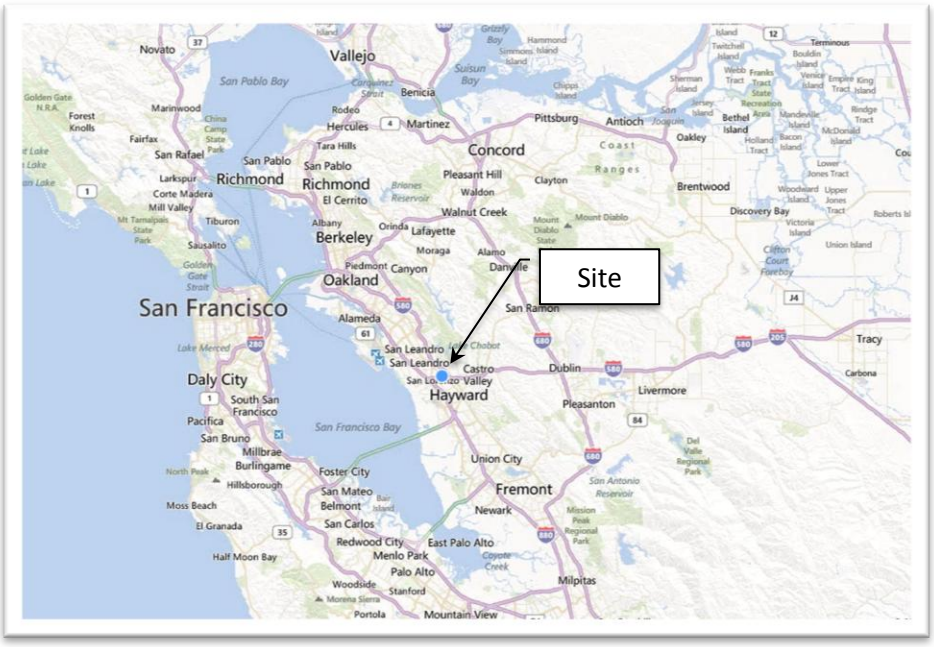
AEM Consulting
310 Pacific Heights Drive
Santa Rosa, CA 95409

INTRODUCTION

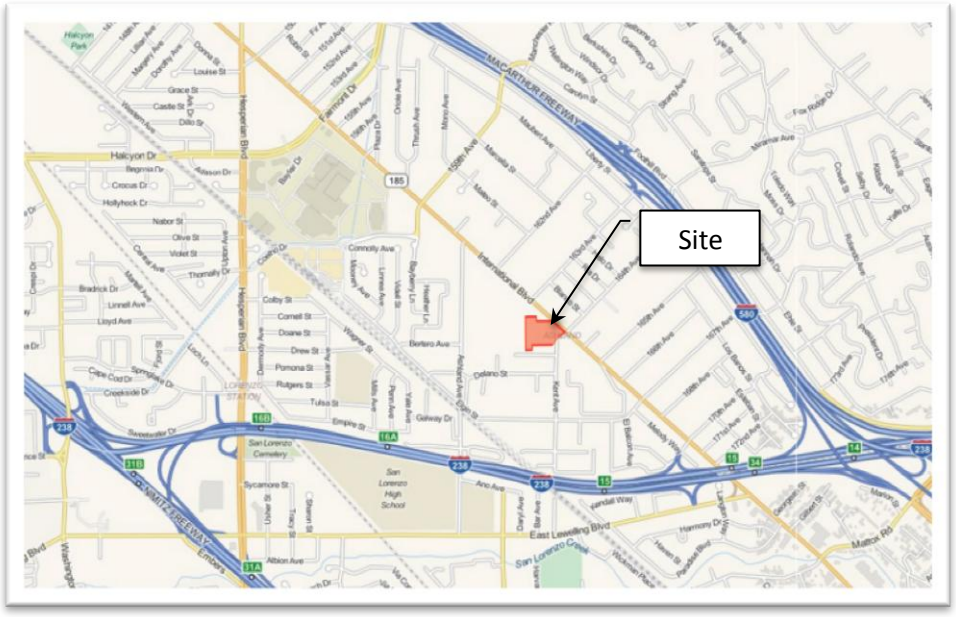
This report presents the results of the environmental air quality evaluation of the Ashland Mixed Use Development project in the unincorporated community of Ashland, in Alameda County California. Recourses for Community Development proposes to develop 85 units of affordable housing with 3200 square feet of commercial space. The project envisions demolition of existing structures and new construction of 85 affordable rental apartments for seniors, emancipated foster youth and families who earn income of 30% to 50% of Area Median Income (AMI). In keeping with the renaissance of the Ashland and Cherryland Business Districts Specific Plan, commercial space will be placed along the East 14th Street frontages. In addition to the mixed-uses stated here, a community room, classrooms, computer room, office and garden community room will be constructed. A total of 96 parking spaces will be provided onsite.

Project Location

16309-16331 Kent Avenue
San Lorenzo, CA 94580



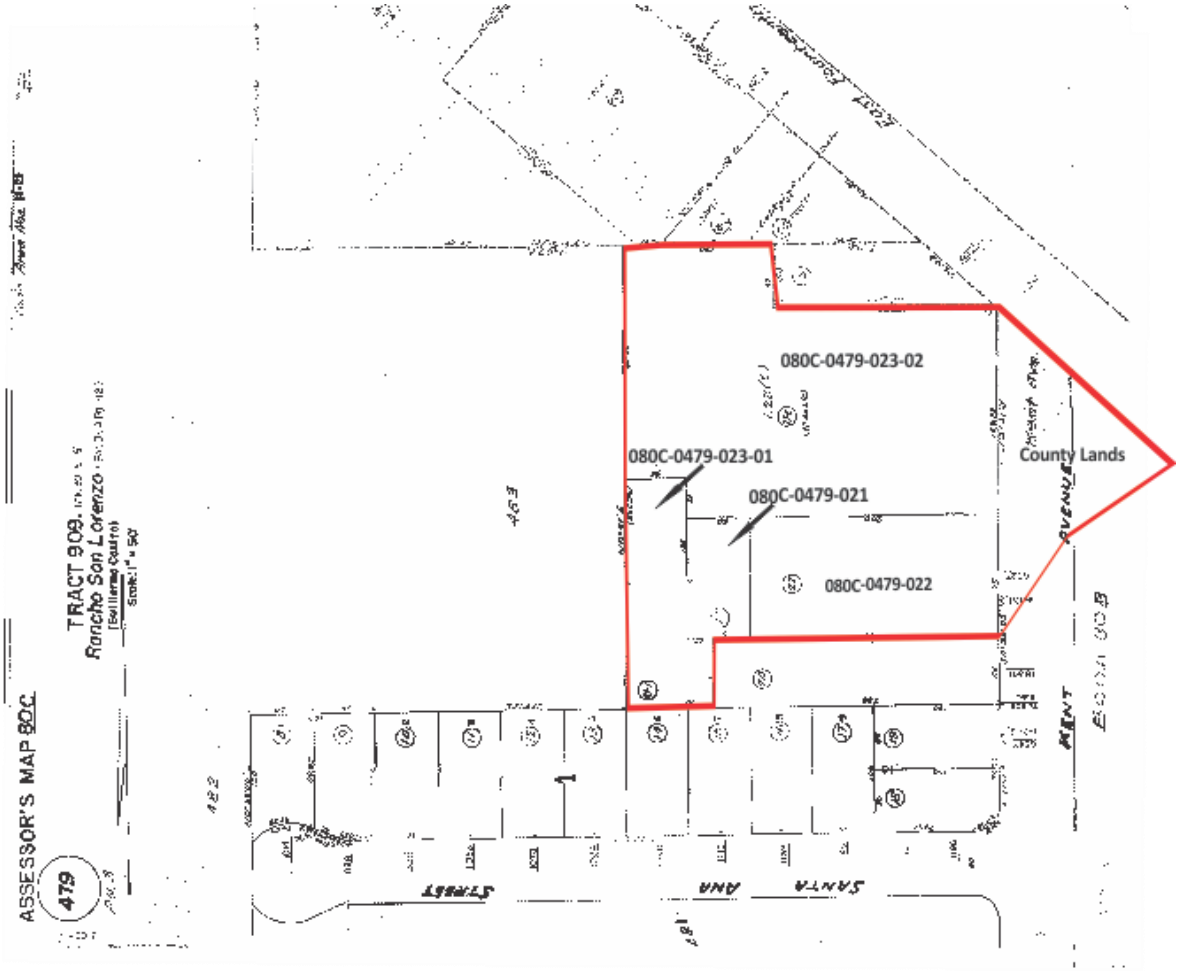
Map 1 Region


Site
MACARTHUR FREEWAY
Halcyon Dr
Hollyhock Dr
Bradrick Dr
Linnell Ave
Lloyd Ave
Colby St
Cornell St
Doane St
Drew St
Pomona St
Rutgers St
Tulsa St
Galway Dr
Empire St
Creekside Dr
Cape Cod Dr
Springbrook Dr
Sycamore St
Ulster St
Albion Ave
Bartero Ave
Orland St
Connolly Ave
Wagner St
Bancroft Ave
Dutton Ave
Thornally Dr
Olive St
Violet St
Nabor St
Grace St
Castle St
Dilio St
Louise St
Donna St
Lillian Ave
Margery Ave
Dorothy Ave
Western Ave
Hesperian Blvd
Foothill Blvd
Fairmont Dr
Paseo Dr
Thrush Ave
Mono Ave
Marcella St
Maxine St
Overdale Ave
Overdale St
Yale Dr
Fox Ridge Dr
Miramar Ave
Rudsdill Rd
Rudsdill Ave
Sandra Ln
Sandra Dr
Sunset Ave
Sunset Dr

Project Location

16309-16331 Kent Avenue

San Lorenzo, CA 94580



Map 3 Assessor's Parcel Map

Project Location

Ashland Mixed use Commercial & Family Apts

16309-16331 Kent Avenue San Lorenzo, CA 94580

Photo 1 Aerial View ** Courtesy Google Earth

SETTING

Regulatory Setting

The Federal Clean Air Act governs air quality in the United States. In addition to being subject to federal requirements, air quality in California is also governed by more stringent regulations under the California Clean Air Act. At the Federal level, the United States Environmental Protection Agency (USEPA) administers the Clean Air Act (CAA). The California Clean Air Act is administered by the California Air Resources Board (CARB) at the State level and by the Air Quality Management Districts at the regional and local levels. The Bay Area Air Quality Management District (BAAQMD) regulates air quality at the regional level, which includes the nine-county Bay Area.

For consistency with local air quality management, the Bay Area Air Quality Management District BAAQMD standards were used to evaluate impacts for several pollutants. For air quality, the analysis considers whether the Proposed Action or alternatives would:

a) Conflict with or obstruct implementation of the applicable air quality plan?

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

c) 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)?

d) Expose sensitive receptors to substantial pollutant concentrations?

e) Create objectionable odors affecting a substantial number of people?

The federal Clean Air Act requires each state to identify areas that have ambient air quality in violation of federal standards. States are required to develop, adopt, and implement a state implementation plan (SIP) to achieve, maintain, and enforce federal ambient air quality standards in these nonattainment areas. SIP elements are developed on a pollutant-by-pollutant basis whenever one or more air quality standards are being violated. In California, local and regional air pollution control agencies have primary responsibility for developing SIPs, generally in coordination with local and regional land use and transportation planning agencies. The Bay Area Air Quality Management District (BAAQMD) is the responsible regional air pollution control agency in the San Francisco Bay Area.

An area's compliance with national ambient air quality standards under the Clean Air Act is categorized as nonattainment, attainment (better than national standards), unclassifiable, or attainment/cannot be classified. The unclassified designation includes attainment areas that comply with federal standards, as well as areas for which monitoring data are lacking. Unclassified areas

are treated as attainment areas for most regulatory purposes. Simple attainment designations generally are used only for areas that transition from nonattainment status to attainment status. Areas that have been reclassified from nonattainment to attainment of federal air quality standards are automatically considered maintenance areas, although this designation is seldom noted in status listings. The San Francisco Bay Area is designated as nonattainment for the federal 8-hour ozone standard and the 24-hour fine particulate matter ($PM_{2.5}$) standard. The San Francisco Bay Area is designated as attainment or unclassified for the other national ambient air quality standards.

With respect to the state ambient air quality standards, California classifies areas as attainment, nonattainment, nonattainment-transitional, or unclassified. The San Francisco Bay Area is designated as nonattainment for the state ozone, inhalable particulate matter (PM_{10}) and $PM_{2.5}$ standards and as attainment or unclassified for the other state ambient air quality standards. The predominant regulation that guides assessment of air quality impacts of federal actions is the General Conformity Rule, established under the Clean Air Act (Section 176(c)(4)). The General Conformity Rule ensures that the actions taken by federal agencies in nonattainment and maintenance areas do not interfere with a state's plans to meet national standards for air quality. The project area is located within the San Francisco Bay Area Air Basin, which is designated as a nonattainment area for the federal 8-hour ozone standard and the federal fine particulate matter ($PM_{2.5}$) standard. The air basin is designated as a maintenance area with respect to the federal carbon monoxide (CO) standards.

Physical Setting: Southwestern Alameda County

This subregion encompasses the southeast side of San Francisco Bay, from Dublin Canyon to north of Milpitas. The subregion is bordered on the east by the East Bay hills and on the west by the bay. Most of the area is flat. This subregion is indirectly affected by marine air flow. Marine air entering through the Golden Gate is blocked by the East Bay hills, forcing the air to diverge into northerly and southerly paths. The southern flow is directed down the bay, parallel to the hills, where it eventually passes over southwestern Alameda County. These sea breezes are strongest in the afternoon. The further from the ocean the marine air travels, the more the ocean's effect is diminished. Although the climate in this region is affected by sea breezes, it is affected less so than the regions closer to the Golden Gate.

The climate of southwestern Alameda County is also affected by its close proximity to San Francisco Bay. The Bay cools the air with which it comes in contact during warm weather, while during cold weather the Bay warms the air. The normal northwest wind pattern carries this air onshore. Bay breezes push cool air onshore during the daytime and draw air from the land offshore at night.

Winds are predominantly out of the northwest during the summer months. In the winter, winds are equally likely to be from the east. Easterly-southeasterly surface flow into southern Alameda County passes through three major gaps: Hayward/Dublin Canyon, Niles Canyon and Mission Pass. Areas north of the gaps experience winds from the southeast, while areas south of the gaps experience winds from the northeast. Wind speeds are moderate in this subregion, with annual average wind speeds close to the Bay at about 7 mph, while further inland they average 6 mph.

Air temperatures are moderated by the sub region's proximity to the Bay and to the sea breeze. Temperatures are slightly cooler in the winter and slightly warmer in the summer than East Bay cities to the north. During the summer months, average maximum temperatures are in the mid-70's. Average maximum winter temperatures are in the high-50's to low-60's. Average minimum temperatures are in the low 40's in winter and mid-50's in the summer.

Pollution potential is relatively high in this subregion during the summer and fall. When high pressure dominates, low mixing depths and Bay and ocean wind patterns can concentrate and carry pollutants from other cities to this area, adding to the locally emitted pollutant mix. The polluted air is then pushed up against the East Bay hills. In the wintertime, the air pollution potential in southwestern Alameda County is moderate. Air pollution sources include light and heavy industry, and motor vehicles. Increasing motor vehicle traffic and congestion in the subregion

Criteria Air Pollutants & Effect

Air quality studies generally focus on five pollutants that are most commonly measured and regulated: CO, O_3, NO_2, SO_2, and suspended particulate, i.e., PM_{10} and $PM_{2.5}$.

Carbon Monoxide. CO, a colorless and odorless gas, interferes with the transfer of oxygen to the brain. It can cause dizziness and fatigue, and can impair central nervous system functions. CO is emitted almost exclusively from the incomplete combustion of fossil fuels. Automobile exhausts release approximately 70 percent of the CO in the Bay Area. A substantial amount also comes from burning wood in fireplaces and wood stoves. CO is a non-reactive air pollutant that dissipates relatively quickly, so ambient CO concentrations generally follows the spatial and temporal distributions of vehicular traffic. The highest CO concentrations measured in the Bay Area are typically recorded during the winter.

Ozone. O_3, a colorless toxic gas, is the chief component of urban smog. O_3 enters the blood stream and interferes with the transfer of oxygen, depriving sensitive tissues in the heart and brain of oxygen. Although O_3 is not directly emitted, it forms in the atmosphere through a chemical reaction between reactive organic gas (ROG) and nitrogen oxides (NO_X) under sunlight.[1] ROG and NOx are primarily emitted from automobiles and industrial sources. O_3 is present in relatively high concentrations within the Bay Area, and the damaging effects of photochemical smog are generally related to the concentration of O_3. Highest O_3 concentrations occur during summer and early autumn, on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. This pollutant is addressed at the regional level.

Nitrogen Dioxide. NO_2, a reddish-brown gas, irritates the lungs. It can cause breathing difficulties at high concentrations. Like O_3, NO_2 is not directly emitted, but is formed through a reaction between nitric oxide (NO) and atmospheric oxygen. NO and NO_2 are collectively referred to as nitrogen oxides (NO_X) and are major contributors to O_3 formation. NO_2 also contributes to the formation of PM_{10} (see discussion of PM_{10} below). NO_2 concentrations in the Bay Area are relatively low and do not warrant analysis from land use type projects.

1 *ROG and NO_X are emitted from automobiles and industrial sources.*

Sulfur Oxides. Sulfur oxides, primarily SO_2, are a product of high-sulfur fuel combustion. The main sources of SO_2 are coal and oil used in power stations, in industries, and for domestic heating. SO_2 is an irritant gas that attacks the throat and lungs. It can cause acute respiratory symptoms and diminished ventilator function in children. SO_2 concentrations have been reduced to levels well below the state and national standards, but further reductions in emissions are needed to attain compliance with standards for PM_{10}, of which SO_2 is a contributor. In the Bay Area, SO_2 is primarily an issue for oil refining.

Suspended Particulate Matter. Particulate matter pollution consists of very small particles suspended in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter also forms when industry and gaseous pollutant undergo chemical reactions in the atmosphere. Respirable particulate matter (PM_{10}) and fine particulate matter ($PM_{2.5}$) represent fractions of particulate matter. PM_{10} refers to particulate matter less than $_{10}$ microns in diameter and $PM_{2.5}$ refers to particulate matter that is $PM_{2.5}$ microns or less in diameter. Major sources of $PM_{2.5}$ results primarily from diesel fuel combustion (from motor vehicles, power generation, and industrial facilities), residential fireplaces, and wood stoves. PM_{10} include all $PM_{2.5}$ sources as well as emissions from dust generated by construction, landfills, and agriculture; wildfires and brush/waste burning, industrial sources, windblown dust from open lands, and atmospheric chemical and photochemical reactions. PM_{10} and $PM_{2.5}$ pose a greater health risk than larger-size particles, because these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract increasing the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Whereas, larger particles tend to collect in the upper portion of the respiratory system, $PM_{2.5}$ are so tiny that they can penetrate deeper into the lungs and damage lung tissues. Suspended particulates also damage and discolor surfaces on which they settle, as well as produce haze and reduce regional visibility.

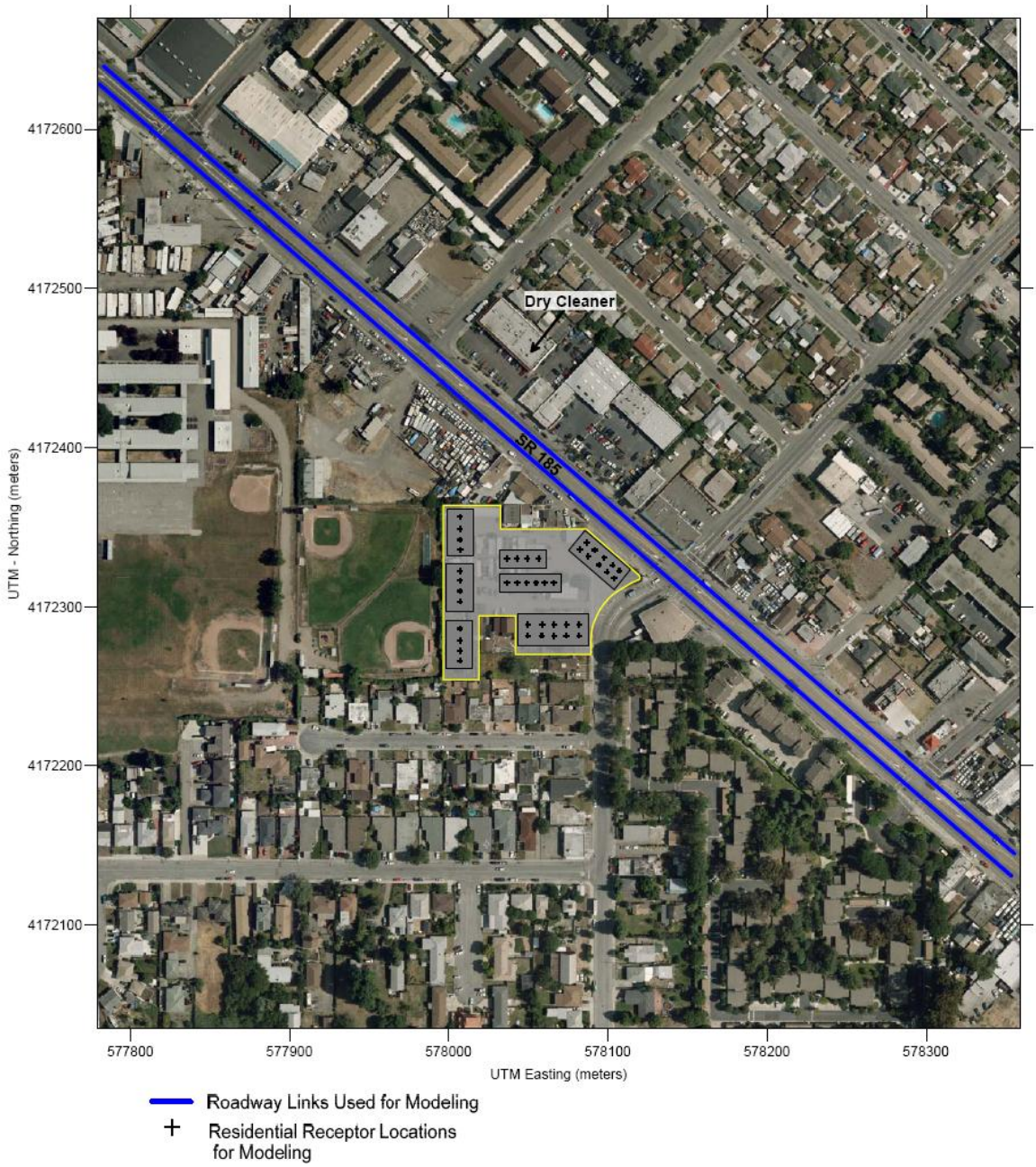


Figure 1 Project Site, Modeling Receptors, and Roadway Links

Community Air Contaminants and their Health Effects

Fine Particulate Matter (PM2.5)

Particulate matter pollution consists of very small particles suspended in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter also forms when industry and gaseous pollutant undergo chemical reactions in the atmosphere. Respirable particulate matter (PM10) and fine particulate matter (PM2.5) represent fractions of particulate matter. PM10 refers to particulate matter less than 10 microns in diameter and PM2.5 refers to particulate matter that is 2.5 microns or less in diameter. Major sources of PM2.5 results primarily from diesel fuel combustion (from motor vehicles, power generation, and industrial facilities), residential fireplaces, and wood stoves. PM10 include all PM2.5 sources as well as emissions from dust generated by

construction, landfills, and agriculture; wildfires and brush/waste burning, industrial sources, windblown dust from open lands, and atmospheric chemical and photochemical reactions. PM10 and PM2.5 pose a greater health risk than larger-size particles, because these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract increasing the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Whereas, larger particles tend to collect in the upper portion of the respiratory system, PM2.5 are so tiny that they can penetrate deeper into the lungs and damage lung tissues. Suspended particulates also damage and discolor surfaces on which they settle, as well as produce haze and reduce regional visibility.

Toxic Air Contaminants

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 two-thirds of the cancer risk from TACs (based on the statewide average). According to the 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 reports that recent air pollution studies have shown an association that diesel exhaust and other cancer-causing toxic air contaminants emitted from vehicles are responsible for much of the overall cancer risk from TACs in California. DPM emitted by diesel-fueled engines was found to comprise much of that risk. DPM can be distributed over large regions, thus leading to widespread public exposure. Diesel engines emit particulate matter at a rate about 20 times greater than comparable gasoline engines. The vast majority of diesel exhaust particles (over 90 percent) consist of PM2.5, which are particles that can be inhaled deep into the lung. Like other particles of this size, a portion will eventually become trapped within the lung possibly leading to adverse health effects. While the gaseous portion of diesel exhaust also contains TACs, CARB's 1998 action was specific to DPM, which accounts for much of the cancer-causing potential from diesel exhaust. California has adopted a comprehensive diesel risk reduction program to reduce DPM emissions 85 percent by 2020. The U.S. EPA and CARB adopted low sulfur diesel fuel standards in 2006 that reduce diesel particulate matter substantially.

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 regula-

tions include the solid waste collection vehicle (SWCV) rule, in-use public and utility fleets, and the heavy-duty diesel truck and bus regulations.

In December 2008 CARB approved a new regulation to reduce emissions of DPM and nitrogen oxides from existing on-road heavy-duty diesel fueled vehicles[2]. 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.

Non-diesel vehicles also emit TACs, primarily in the form of organic compounds. A fraction of the total organic gas (TOG) emissions from vehicles are TACs. Organic compounds that have been identified as TACs associated with the emissions from vehicles include acetaldehyde, benzene, 1,3-butadiene, ethyl benzene, formaldehyde, hexane, naphthalene, toluene, and xylenes. These TACS are emitted from vehicle exhaust and from evaporative emissions that emanate from hoses, fittings or canisters, while the vehicle is being operated.

Common stationary source types of TAC and $PM_{2.5}$ emissions include gasoline stations, dry cleaners, and diesel backup generators, which are subject to BAAQMD permit requirements. The other, often more significant, common source type is on-road motor vehicles on freeways and roads such as trucks and cars, and off-road sources such as construction equipment, ships and trains.

Area of Influence

The BAAQMD recommends that general plans include buffer zones (Area of Influence) to separate sensitive receptors from sources of air toxic contaminants and odors. In April 2005, CARB released the final version of the Air Quality and Land Use Handbook, which is intended to encourage local land use agencies to consider the risks from air pollution prior to making decisions that approve the siting of new sensitive receptors (e.g., schools, homes or daycare centers) near sources of air pollution.

[2] *http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm*

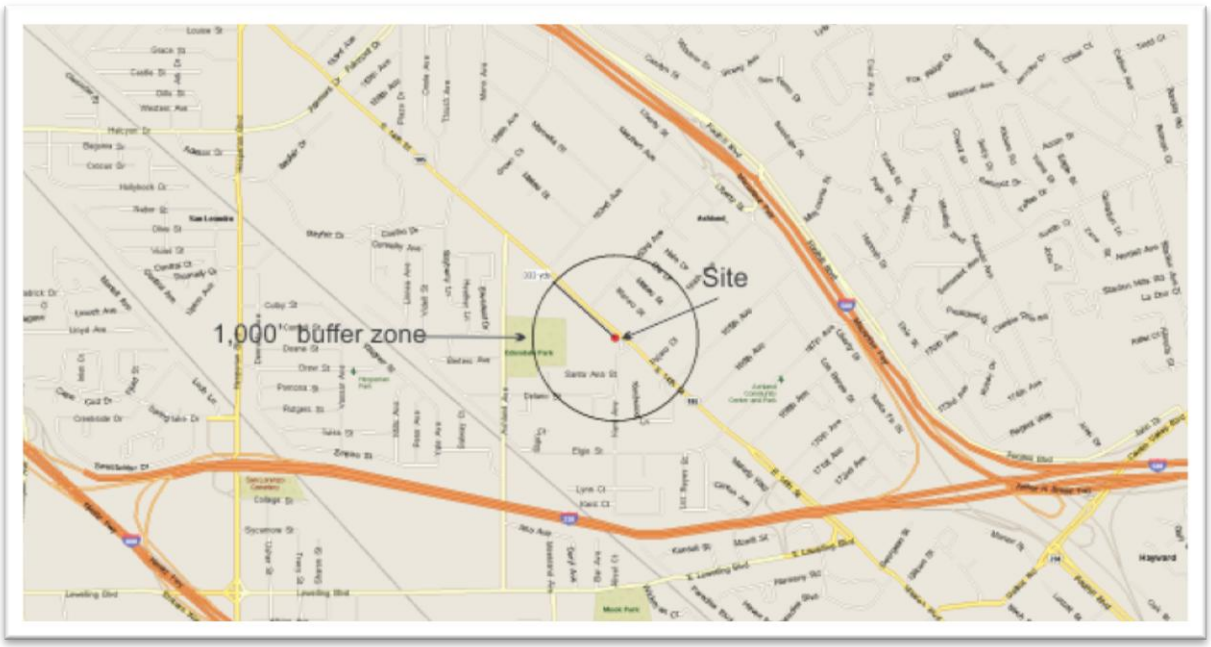


Figure 2- Area map showing 1,000' Area of Influence

Unlike industrial or stationary sources of air pollution, siting of new sensitive receptors does not require air quality permits, but could create air quality problems. The primary purpose of the handbook is to highlight the potential health impacts associated with proximity to common air pollution sources, so that those issues are considered in the planning process. CARB makes recommendations regarding the siting of new sensitive land uses near freeways, truck distribution centers, dry cleaners, gasoline dispensing stations, and other air pollution sources. These "advisory" recommendations include setbacks of 500 feet between new residences and freeways. The setbacks are based primarily on modeling information and are not reflective of site-specific conditions in the San Lorenzo area. Siting of new sensitive land uses within these recommended distances may be possible, but only after Air Quality screening and site-specific studies are conducted to identify the actual health risks. CARB acknowledges that land use agencies have to balance other siting considerations such as housing and transportation needs, economic development priorities and other quality of life issues.

BAAQMD Significance Thresholds

The BAAQMD adopted "Thresholds of Significance" for local community risk and hazard impacts that apply to both the siting of a new source and to the siting of a new receptor. Local community risk and hazard impacts are associated with TACs and PM2.5 because emissions of these pollutants can have significant health impacts at the local level[3].

[3] *The BAAQMD Thresholds of Significance effective May 2011*.

Table 1 BAAQMD Thresholds of Significance

Analysis	New Source	New Receptor
Individual Project	Compliance with qualified community risk reduction plan OR To the nearest receptor (resident) regardless of distance: Increased Cancer Risk > 10 in a million Increased Chronic and Acute Hazard Index > 1.0 Ambient $PM_{2.5}$ concentration increase > 0.3 ug/m^3	Compliance with qualified community risk reduction plan OR From the source with the highest cancer risk, $PM_{2.5}$ concentration, or hazard in comparison to other sources within the 1,000 foot radius of the receptor: Increased Cancer Risk > 10 in a million Increased Chronic and Acute Hazard Index > 1.0 Ambient $PM_{2.5}$ concentration increase > 0.3 ug/m^3
Cumulative Impacts	Compliance with qualified community risk reduction plan OR Common sources within 1,000 foot radius of the individual project modeled to the maximum likely exposed individual (resident) based on the individual source analysis: Cancer Risk > 100 in a million Chronic Hazard Index > 10.0	Compliance with qualified community risk reduction plan OR Major sources within 1,000 foot radius of the receptor: Cancer Risk > 100 in a million Chronic Hazard Index > 10.0 $PM_{2.5}$ concentration > 0.8 ug/m^3

If emissions of TACs or PM2.5 exceed any of the Thresholds of Significance listed in Table 1, the proposed project would result in a significant impact.

Alameda County does not have a qualified risk reduction plan. The site, and any future project to be constructed on that site, would be located near a freeway or major arterial highway, an analysis of TAC and PM2.5 impacts upon sensitive receptors is necessary.

Initial Air Quality Screening

A 1,000 foot radius was identified around the project site as the Area of Influence. An identification of significant sources and receptors within the Area of Influence was conducted using the BAAQMD recommended screening method. The initial screening for the project compared the screening values based on distances to the nearest major roadway and/or emissions from significant sources to the CEQA thresholds. The BAAQMD provides screening tables for California designated highways and certain existing permitted, stationary sources as an initial screen to determine if nearby sources or roadways may have a significant impact on a project. An evaluation of

the cumulative impacts from all TAC and $PM_{2.5}$ sources was also considered in the initial screen. The cumulative impacts are the summation of the cancer risks, hazards, and $PM_{2.5}$ concentrations from all significant sources identified within 1,000 foot radius of the project.

Emissions Modeling[4]

This analysis involved the development of future DPM, organic TAC and PM2.5 emissions for traffic on SR-185 using the latest version of the CARB EMFAC2007 emission factor model with the traffic mix developed from Caltrans and model defaults for Alameda County. EMFAC2007 is the most recent version of the CARB motor vehicle emission factor model. DPM emissions are predicted by the model to decrease in the future. However, the current version of EMFAC2007 does not incorporate the effects of the recent on-road diesel vehicle regulations, which will substantially reduce DPM emissions even further. The requirements for diesel trucks are phased in for future years and depend on the model year of the trucks. Since this analysis assesses the long-term risk of proposed sensitive uses to future exposures, the lower future emissions were taken into account. The diesel truck age distribution used in the EMFAC2007 model was adjusted to reflect the effects of the new regulations. These adjustments include recent action by CARB to delay some of the requirements of the regulation.

The current version of EMFAC2007 does not incorporate the effects of the recent on-road diesel vehicle regulations that will substantially reduce emissions even further. CARB recently adopted new regulations that will require on-road diesel trucks to be retrofitted with particulate matter controls or replaced to meet new 2010 engine standards that have much lower DPM and PM2.5 emissions. This regulation will substantially reduce these emissions between 2013 and 2023, with the greatest reductions occurring in 2013 through 2015. While new trucks and buses will meet strict federal standards, this measure is intended to accelerate the rate at which the fleet either turns over so there are more cleaner vehicles on the road, or is retrofitted to meet similar standards. With this regulation, older, more polluting trucks would be removed from the roads much quicker. CARB anticipates a 68 percent reduction in PM2.5 (including DPM) emission from trucks in 2014 with this regulation.

The requirements for diesel trucks are phased in for future years and depend on the model year of the trucks. Since this analysis assesses the risk of proposed sensitive uses to future exposures, the lower future emissions were taken into account. The diesel truck age distribution used in the EMFAC2007 model for years 2015 and beyond were adjusted to reflect the effects of the new regulations. The EMFAC2007 results were then adjusted to the traffic volume and mix on SR-185 reported by Caltrans5. Average daily traffic volumes were assumed to increase by 1 percent per year.

Emission factors were developed for the year 2013 which is the assumed year construction of the proposed project will be completed using the calculated mix of cars and trucks on SR-185. Default

[4] Air Quality Model Runs by Illingworth & Rodkin, May 2011. Reyeff, James

[5] Caltrans, Based on 2009 Average Annual Daily Truck Traffic on the California State Highway System - http://www.dot.ca.gov/hq/traffops/saferesr/trafdata/

EMFAC2007 vehicle model years were assumed for 2013. The DPM emission calculations and emission factors are shown in Table 3 for SR-185.

Emissions of total organic gases (TOG) were also calculated for 2013 using the EMFAC2007 model. These TOG emission were then used in the modeling the organic TACs. TOG emissions from both exhaust and from running evaporative loses from all vehicle types were calculated using EMFAC2007 default model values for Alameda County along with the traffic volumes and vehicle mixes for SR-185. The model year adjustments for diesel vehicles, discussed above, were not used when calculating TOG emissions.

The EMFAC2007 model was also used to develop average hourly traffic distributions for Alameda County roadways, which were then applied to the average daily traffic volumes for SR-185 to obtain hourly traffic volumes. The County average and hourly traffic distributions used in this analysis are shown in Table 5 and 6. Average travel speed of 25 mph for SR-185 was applied.

Roadway Sources

A review of traffic information reported by Caltrans indicates there is one roadway within the Area of Influence of the project with average daily traffic in excess of 10,000 average daily trips: SR-185 ADT of 17,800 vehicles, 2.2% trucks and 0.3% heavy-duty trucks. According to the BAAQMD CEQA Air Quality Guidelines, modeling of SR-185 traffic emissions to predict health risk and PM2.5 is necessary to identify the significance of long-term residential exposures.

Table 2 Highway 185 Traffic Data and Average DPM, PM2.5 and TOG Emission Factors

Analysis Year = ***2013***

Vehicle Type	2009 CalTrans Number Vehicles (vech/day)	2013 Number Vehicles (vech/day)	2013 Percent Diesel	Number Diesel	Avg. DPM EF (g/VMT)	Vehicle Speed (mph)	Total Vehicle Emissions (g/mi)
LDA	10,903	11,339	0.19%	21	0.13100	25	2.79
LDT	6,505	6,765	0.63%	43	0.0620	25	2.64
MDT	315	328	6.10%	20	0.0440	25	0.88
HDT	77	80	96.15%	77	0.3403	25	26.20
Total	17,800	18,512	-	161	-	25	32.50
				6.69992			
Diesel Vech Avg DPM EF					**0.20214**		
Mix Avg DPM EF					0.00176		
Increase From 2009		1.04					
Vehicles/Direction		9,256		80			
Vehicles/Hour/Direction		386		**3.3**			

Traffic Data Year = ***2009***

Caltrans Truck AADT Data	Total	Total Truck	Truck by Axle 2	3	4	5
SR 185 B Jct Rte 238	17800	392	315	28	21	28
	% of Total	2.20%	1.77%	0.16%	0.12%	0.16%

Traffic Increase per Year (%) = ***1.0%***

Table 3 PM2.5 and TOG

Analysis Year = ***2013***

Vehicle Type	2009 CalTrans Number Vehicles (veh/day)	2013 Number Vehicles (veh/day)	Emission Factors: Exhaust PM2.5 (g/VMT)	Exhaust TOG (g/VMT)	Running TOG (g/VMT)	Vehicle Speed (mph)	Total Vehicle Emissions: Exhaust PM2.5 (g/mi)	Exhaust TOG (g/mi)	Running* TOG (g/mi)
LDA	10,903	11,339	0.0120	0.0880	0.089	25	136	998	1007
LDT	6,505	6,765	0.0239	0.1355	0.143	25	162	917	965
MDT	315	328	0.0263	0.1427	0.099	25	9	47	32
HDT	77	80	0.3180	0.8294	0.013	25	25	66	1.0
Total	17,800	18,512	-	-	-	25	332	2,028	2,005
Mix Avg Emission Factor			**0.01794**	**0.10953**	**0.10830**				
Increase From 2009		1.04							
Vehicles/Direction		9,256							
Vehicles/Hour/Direction		**386**							

Traffic Data Year = ***2009***

Caltrans Truck AADT Data	Total	Total Truck	Truck by Axle: 2	3	4	5
SR 185 B Jct Rte 238	17800	392	315	28	21	28
	% of Total	2.20%	1.77%	0.16%	0.12%	0.16%

Traffic Increase per Year (%) = ***1.0%***

*** Based on engine run time (min) =** ***30***

Table 4 Highway 185 Hourly Traffic Volumes and DPM & PM2.5 Emission Rates

2013 Hourly Diesel Traffic Volumes Per Direction and DPM Emissions - SR 185

Hour	% Per Hour	Diesel VPH	g/mile	Hour	% Per Hour	Diesel VPH	g/mile	Hour	% Per Hour	Diesel VPH	g/mile
1	2.76%	2.2	0.2355	9	6.47%	5.2	0.1940	17	6.06%	4.9	0.1905
2	1.81%	1.5	0.1766	10	5.82%	4.7	0.2327	18	5.56%	4.5	0.1335
3	2.20%	1.8	0.1613	11	5.63%	4.5	0.2187	19	4.17%	3.4	0.1471
4	2.21%	1.8	0.3179	12	6.65%	5.3	0.2091	20	2.54%	2.0	0.1288
5	1.47%	1.2	0.2622	13	6.14%	4.9	0.2116	21	3.20%	2.6	0.1989
6	2.29%	1.8	0.3075	14	6.15%	4.9	0.2092	22	3.58%	2.9	0.2230
7	4.58%	3.7	0.2666	15	5.79%	4.7	0.1965	23	2.54%	2.0	0.1852
8	5.77%	4.6	0.1889	16	4.93%	4.0	0.1681	24	1.69%	1.4	0.1555
								Total		80.4	

2013 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - SR 185

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.07%	99.4	0.0208	9	7.06%	653.9	0.0180	17	7.40%	685.1	0.0176
2	0.35%	32.7	0.0225	10	4.23%	391.9	0.0191	18	8.32%	770.4	0.0171
3	0.29%	27.0	0.0252	11	4.59%	424.5	0.0185	19	5.83%	539.5	0.0172
4	0.17%	15.7	0.0464	12	5.83%	539.4	0.0183	20	4.39%	406.1	0.0171
5	0.44%	40.9	0.0228	13	6.17%	571.5	0.0179	21	3.29%	304.7	0.0178
6	0.80%	73.9	0.0235	14	6.03%	558.3	0.0180	22	3.31%	306.0	0.0181
7	3.75%	347.2	0.0188	15	7.09%	656.5	0.0176	23	2.48%	229.4	0.0177
8	7.94%	734.6	0.0174	16	7.25%	671.0	0.0173	24	1.91%	176.4	0.0172
								Total		9,256	

Table 5 CAL3QHCR Modeling Parameters and Maximum Cancer Risks

CAL3QHCR Risk Modeling Parameters and Maximum Cancer Risk in Project Area
Ashland Apts, San Lorenzo, CA

Receptor Information

Number of Receptors	42
Receptor Height =	1.5 m
Receptor distances =	variable

Meteorological Conditions

Union City Hourly Met Data	1990 - 1994
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Cancer Risk Calculation Method

Inhalation Dose = C_{air} x DBR x A x EF x ED x 10^{-6} / AT

Where: C_{air} = concentration in air (µg/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

Inhalation Dose Factors

Exposure Type	Value[1] DBR (L/kg BW-day)	A (-)	Exposure (hr/day)	Exposure (days/week)	Exposure (week/year)	EF (days/yr)	ED (Years)	AT (days)
Residential (70-Year)	302	1	24	7	50	350	70	25,550

[1] Default values recommended by OEHHA& Bay Area Air Quality Management District

Cancer Risk (per million) = Inhalation Dose x CRAF x CPF x 10^6
= URF x Cair

Where: CPF = Cancer potency factor (mg/kg-day)$^{-1}$
CRAF = Cancer Risk Adjustment Factor
URF =Unit risk factor (cancer risk per µg/m^3)

Unit Risk Factors for DPM and Organic TACs from Vehicle TOG Exhaust & Evaporative Emissions

Exposure Type	CPF (mg/kg-day)$^{-1}$	CRAF (-)	*DPM*	Exhaust TOG TACs	Evaporative TOG TACs
Residential (70-Yr Exposure)	1.10E+00	1.7	541.5	3.1	0.18

MEI Cancer Risk Calculations During Project Operation

Meteorological Data Year	Maximum DPM Concentration (µg/m^3) 2013	2015	2020	Maximum Exhaust TOG Concentration (µg/m3) 2013	2015	2020	Maximum Evaporative TOG Concentration (µg/m3) 2013	2015	2020
1990	0.0065	-	-	0.3439	-	-	0.3399	-	-
1991	0.0070	-	-	0.3844	-	-	0.3800	-	-
1992	0.0071	-	-	0.3934	-	-	0.3889	-	-
1993	0.0072	-	-	0.3852	-	-	0.3808	-	-
1994	0.0073	-	-	0.3993	-	-	0.3948	-	-
Average	0.0070	-	-	0.3813	-	-	0.3769	-	-
Cancer Risk[a]	3.8	-	-	1.2	-	-	0.1	-	-
70-yr Cumulative Risk[b]	3.80			1.17			0.07		

Total Risk From All TACs = 5.0 per million

Notes:
Receptor Heights = 1.5 m
Maximum DPM & TOG concentrations occur at the eastern most corner of the building adjacent to SR 185 (Receptor No. 5)
a Cancer risk (per million) calculated assuming constant 70-year exposure to concentration for year of analysis.
b Cumulative cancer risk (per million) calculated assuming variable exposure over a 70-year period due to decreased concentrations over time.

Table 6 Summary of Annual PM2.5 Concentrations

Emission Source	Receptor Location	PM2.5 Concentration (µg/m^3)	
		Maximum* Annual	Average** Annual
Highway 185	Receptor No. 5	0.07	0.06

* Highest modeled concentration over all emission years (2013) and meteorological data years (1990 – 1994)

** Average concentration for all emission years and meteorological data years.

Using the modeled long-term average DPM and organic gas concentrations, the individual cancer risks were computed using the most recent methods recommended by BAAQMD[6] and the California Office of Environmental Health Hazard Assessment (OEHHA)[7]

The factors used to compute cancer risk is highly dependent on modeled concentrations, exposure period or duration, and the type of receptor. The exposure level is determined by the modeled concentration; however, it has to be averaged over a representative exposure period. The averaging period is dependent on many factors, but mostly the type of sensitive receptor that would reside at a site.

This assessment conservatively assumed long-term residential exposures. OEHHA has developed exposure assumptions for typical types of sensitive receptors. These include nearly continuous exposures of 70 years for residences. It should be noted that the cancer risk calculations for 70-year residential exposures reflect use of BAAQMD's most recent cancer risk calculation method, adopted in January 2010. This method applies a Cancer Risk Adjustment Factor of 1.7 to the cancer risks for residential exposures to account for age sensitivity to toxic air contaminants. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. This analysis, therefore, presents the range of cancer risk for various types of exposures. Computed cancer risks are shown for SR-185 in Table 6.

Roadway Sources – Thresholds of Significance

Under the BAAQMD CEQA Air Quality Guidelines, an incremental risk of greater than 10 cases per million from a single source at the Maximally Exposed Individual (MEI) would result in a significant impact. Based on the air quality modeling discussed above, cancer risks would be considered less-than-significant for 70-year residential exposures.

[6] BAAQMD, *Air Toxics NSR Program Health Risk Screening Analysis (HSRA) Guidelines*, January 2010.

[7] OEHHA 2003. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. August 2003.

The total cancer risk for all sources of roadway toxic air contaminants is 5.04 in a million for all compounds (DPM and organic TACs) would also ***be less than the significant***.

Potential non-cancer health effects due to chronic exposure to DPM were estimated based on the BAAQMD screening tables (Link 430) at 10 feet from SR 185 and 20 feet building height. Thus, the Hazard Index (HI) would be ***less than significant*** for the criterion of a HI greater than 1.0.

Thresholds of Significance - Roadways Cancer and Non-Cancer (Chronic and Acute) Hazard Indices			
Description	Screening Value	Thresholds	Exceeds Threshold?
PM2.5 Concentration	0.07 ug/m3	0.3 ug/m^3	No
Cancer Risk	5.04 in a million	10 in a million	No
Chronic Non-cancer Hazard Index @ 20' ht.	0.007	>1	No
Acute Non-cancer Hazard Index @ 20' ht	0.027	>1	No
Chronic Non-cancer Hazard Index @ 6' ht.	.012	>1	No
Acute Non-cancer Hazard Index @ 6' ht.	.028	>1	No

Stationary Sources

A review of BAAQMD records indicates that there are three permitted stationary sources in the located along 14th Street within Area of Influence of the project site.

Table 7 Stationary Sources within 1,000 feet of the subject property

Plant # Or Gas Dispen-sary #	Facility Name	Street Address	Screening Level Can-cer Risk (1)	Screening Level Haz-ard Index (1)	Screening Level PM2.5 (1)	Permit #S (2)
12053	Tom Eplin's Body Shop	16338 E 14th Street	0.00	0.002	0.000	Permit # 19046 - New Facility/Spray Booth
15573	Windmill Cleaners	16310 E 14th Street	28.70	0.077	0.000	Permit # 15703 - Dry Cleaning Ma-chine

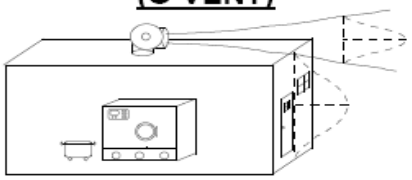
12801	Supreme Rug & Carpet Co	16549 E 14th Street	0.00	0.000	0.000	Permit # 1861 - New Facility/Dry Cleaning Machine

According to the BAAQMD CEQA Air Quality Guidelines, the Windmill Cleaners located 259 feet north of the projects site on 14th Street has a Cancer Screening Risk of 28.70 in a million. Further emissions analysis to predict health risk and PM2.5 is necessary to identify the significance of long-term residential exposures.

Pollutant	Daily Operation		Total Hourly Emission Rate (lb/hr)	Emission Distribution (3)		Hourly Emissions	
	Emission Rate (1) (lb/day)	Hours (2) (hr/day)		Roof Vent	Fugitive	Roof Vent (lb/hr)	Fugitive (lb/hr)
Perchloroethylene	1.42	12	0.118	60%	40%	0.071	0.047

Notes:
1) Daily emission rate provided by BAAQMD
2) Operation assumed to be from 8 am to 8 pm daily
3) Emission distribution from CARB 2006 for dry cleaner "General Ventilation" configuration:

Figure (d) GENERAL VENTILATION (G-VENT)



For modeling purposes, assume for typical system (< 1 change per 5 minutes): 60% capture of emissions by fan and modeled as horizontal point source, 40% of emissions are fugitive & modeled as volume source.

POINT SOURCE:
Q = 2500 CFM; V = 0.001 m/s (Exit velocity is 0.001 m/s and Q to 0.154 acfm to simulate horizontal flow, stack tip downwash off).
Stack Height = 1.5 feet + building= 13.5 feet (4.11 m).
Diameter = 0.3 meters (12 inches).
Building Height = 12 feet.
Shop Size = Approximately 1100 ft^2.
Building Width = 10 meters (32.8 ft.).
Building Length = 10 meters (32.8 ft.).

VOLUME SOURCE:
σ_{yo} = Length/4.3.
σ_{zo} = Height/ 2.15.
Building Height = 12 feet.
Release Ht = 0.5 Shop Ht = 6 feet.
Shop Size = Approximately 1100 ft^2.
Building Width = 10 meters (32.8 ft.).
Building Length = 10 meters (32.8 ft.).

Note on Site Specific Exposures

The project site is located adjacent to SR-185, a busy urban arterial highway. The project site is about 25 feet from the edge of the closest travel lanes. This evaluation predicted much lower impacts than would be concluded using the BAAQMD Risk and Hazard Screening Analysis Process

that uses risk and PM2.5 screening tables developed by BAAQMD for the different highways in the Bay Area. There are several reasons this evaluation found lower results:

The screening tables developed by BAAQMD do not use site specific traffic. This portion of SR-185 has a low volume of heavy trucks due to truck restrictions through much of San Lorenzo. Heavy-duty trucks can be an overwhelming source of particulate matter emissions and contribute to much of the cancer risk and PM2.5 concentrations along roadways.

This assessment took into account future emission rates. Emission rates of PM2.5 (including diesel particulate matter) are modeled to decrease substantially as older vehicles that emit PM2.5 at a greater rate are replaced by cleaner vehicles. CARB regulations in 2009 would accelerate this process.

The Windmill Dry Cleaners is located some 259 feet to the north on 14th Street. Initial Screening tables provided by the BAAQMD showed a Cancer Risk of 28.7 in a million. First tier screening using more refined data showed a Cancer Risk of 15.2 Both the Initial Screen provided by the BAAQMD and the first tier screen show the dry cleaners would have exceeded the threshold of significance for cancer of I0 in a million. However, a more refined model which took into account meteorological data showed a cancer risk of .77 in a million. The reason is that the prevailing wind digestion is focused away from the project site. This analysis used meteorological data most representative of the site. Data collected at Union City was used.

Stationary Sources – Thresholds of Significance

Second tier Screen modeling of the dry cleaners near the Ashland Apts project had a cancer risk of 15.2 per million from Perchloroethylene. Refined modeling with the ISCST3 model and 5 years of meteorological data from Union City were used to refine the model. Perchloroethylene emissions for modeling were calculated based on the daily emission rate of 1.42 lb/day, provided by the BAAQMD, and assuming that the dry cleaning operations occurred over 12 hours per day (from 8am - 8pm). The dry cleaner emissions were modeled as coming from a roof vent (60% of the emissions) and fugitive emissions (40% of the emissions) for 12 hours per day, 365 days per year.

Since Perchloroethylene must be phased out of use by January 1, 2023, the cancer risks were calculated assuming 10 years of exposure (2013 - 2022). The maximum cancer risks were calculated for a child exposure (using age sensitivity factors) and an adult exposure (age sensitivity factor of 1). The maximum child cancer risk is 0.75 per million and the adult cancer risk is 0.09 per million. Acute and chronic hazard indexes were also calculated and are included in a summary table. These HIs were well below 1.0 and therefore considered Less than Significant

Table 8 - Thresholds of Significance – Stationary Sources

Thresholds of Significance – Stationary Sources
Cancer and Non-Cancer (Chronic and Acute) Hazard Indices

Description	Screening Value	Thresholds	Exceeds Threshold?
PM2.5 Concentration	0.0982 ug/m3	0.3 ug/m^3	No
Cancer Risk	.75 in a million	10 in a million	No
Chronic Non-cancer Hazard Index	.077	>1	No
Acute Non-cancer Hazard Index	0.77	>1	No

Cumulative Air Contaminant Exposure

A project would have a significant cumulative impact if the total of all past, present, and foreseeable future sources within a 1,000 foot radius (or beyond where appropriate) from the fence line of a source, or from the location of a receptor, plus the contribution from the project, exceeds the following:

- Non- compliance with a qualified Community Risk Reduction Plan;
- An excess cancer risk levels of more than 100 in one million or a chronic hazard index greater than 10 for TACs; or
- 0.8 µg/m3 annual average PM2.5.

This analysis used anticipated cumulative traffic conditions and the predicted risk reflecting the cumulative risk from all sources near the site.

Table 9 Cumulative Thresholds of Significance

Thresholds of Significance Cumulative Air Contaminant Exposure – All Sources Cancer and Non-Cancer (Chronic and Acute) Hazard Indices			
Description	Screening Value	Thresholds	Exceeds Threshold?
PM2.5 Concentration	0.1682 ug/m3	0.8 ug/m^3	No
Cancer Risk	5.75 in a million	100 in a million	No

Table 12 shows the cumulative cancer risk and PM2.5 concentrations associated with each source affecting the project site. The sum of impacts from cumulative sources (i.e., sources within 1,000 feet of the project) are below the thresholds used by BAAQMD.

Operational and Construction Related Emissions

Method

CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. The model quantifies direct emissions from construction and operations (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. The model incorporates Pavley standards and Low Carbon Fuel standards into the mobile source emission factors. Further, the model identifies mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from measures chosen by the user. The GHG mitigation measures were recently developed and adopted by the California Air Pollution Control Officers Association (CAPCOA).

CalEEMod Version 2011.1.1 was used to analyze the potential emissions resulting from project operation and construction. CalEEMod is designed to estimate air emissions from land use development projects. CalEEMod allows for estimations of construction emissions. CalEEMod also allows the user to select mitigation measures for construction emissions. The CalEEMod results are attached as Appendix A. The model uses data supplied by the CalEEMod entry. In places where incomplete dataset was available (for example there is no information readily available on the type of heavy construction excavators to be employed) the model defaults were used. The results of the modeling appear in Appendix A.

Construction Emissions

Projects of this size do not normally generate operational emissions in sufficient quantity to exceed established thresholds. With the small number of additional vehicle trips generated coupled with the availability of transit, traffic generated by the project would have a less-than-significant impact to local and regional air quality operational emissions. Therefore the following analysis focuses on construction impacts only.

Although the project-generated traffic would not result in a significant long-term impact on local or regional air quality, short-term construction impacts could represent an adverse impact without mitigation. Sources of air emissions and dust include activities such as grading, vehicle travel on paved and unpaved surfaces, and vehicles and equipment exhaust.

The project's construction activities are not expected to substantially change existing air quality standards or contribute to any existing or projected air quality violation. With the implementation of standard construction practices required by Alameda County, and any mitigation measures that may be required by the BAAQMD and contained in the conditions of approval, potential air quality related impacts would be consistent with the County's LCP/LUP and would be reduced to a less than significant level.

According to the BAAQMD CEQA Guidelines, a project that would not individually have a significant air quality impact may have significant cumulative impacts. The determination as to whether a project would have a significant cumulative impact is based on the evaluation of the consistency

of the project with the local General Plan and the consistency of the General Plan with the Bay Area Clean Air Plan (CAP). The project, with mitigation measures, would be consistent with the County's LCP/LUP. The LCP/LUP is consistent with the CAP, therefore, the project would pose no significant cumulative air quality impacts.

Sources of air emissions and dust that could result from the construction of the project include activities such as grading, vehicle travel on paved and unpaved surfaces, and vehicles and equipment exhaust.

Emissions Due To Construction Activity

Construction of the project would result in the temporary generation of NOx and PM_{10} emissions. Short-term air quality impacts are mostly due to dust (PM_{10}) generated by construction and development activities, and emissions from equipment and vehicle engines (NOx) operated during these activities. Dust generation is dependent on soil type and soil moisture, as well as the amount of total acreage actually involved in clearing, grubbing and grading activities. Clearing and earthmoving activities comprise the major source of construction dust generation, but traffic and general disturbance of the soil also contribute to the problem. Sand, lime or other fine particulate materials may be used during construction, and stored on-site. If not stored properly, such materials could become airborne during periods of high winds. The effects of construction activities include increased dust fall and locally elevated levels of suspended particulates. PM_{10} is considered unhealthy because the particles are small enough to inhale and damage lung tissue, which can lead to respiratory problems. PM_{10} emissions during project construction can be reduced through compliance with institutional requirements for dust abatement and erosion control. See Appendix A for CAL EE MOD Construction related mitigated and Unmitigated data.

Carbon Monoxide Hotspots

The BAAQMD CEQA Air Quality Guidelines indicate that project analyses should follow the University of California Davis Transportation Project-Level Carbon Monoxide Protocol (CO Protocol). According to the CO Protocol, intersections with Level of Service (LOS) E or F require detailed analysis. A project contributing to CO concentrations exceeding the California Ambient Air Quality Standard of 9 parts per million (ppm) averaged over 8 hours and 20 ppm for 1 hour would be considered to have a significant impact.

Under *Existing Conditions,* all study intersections are operating at level of service (LOS) D or better during weekday peak hours, and LOS C or better during Saturday peak hours. These existing service levels meet current County of Alameda LOS standards.

Under *Existing plus Approved Projects Conditions,* with the addition of traffic for nearby County-approved projects, all study intersections are expected to continue operating at an acceptable LOS D or better during all peak hours, with minor increases in average delay.

Under *Existing plus Approved Projects plus Proposed Project Conditions*, all study intersections are expected to continue operating acceptably at LOS D or better during all peak hours, just as under Existing plus Approved Projects Conditions, with minor changes in average vehicle delay. Therefore, no mitigations due to project traffic are necessary at the study intersections.

No CO hotspots are anticipated as a result of traffic generated emissions by the proposed project in combination with existing or cumulative traffic. Therefore, the mobile-related emissions from the project are not anticipated to contribute substantially to an existing or projected air quality violation and would not expose sensitive receptors to substantial pollutant concentrations. Impacts would be less than significant.

Summary Overall Construction

Table 10 Unmitigated Construction Impacts

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive Dust PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2013	0.42	2.91	1.94	0.00	0.17	0.18	0.36	0.06	0.18	0.24	0.00	305.16	305.16	0.03	0.00	305.86
2014	2.14	2.10	1.54	0.00	0.00	0.14	0.15	0.00	0.14	0.14	0.00	230.01	230.01	0.03	0.00	230.57
Total	2.56	5.01	3.48	0.00	0.17	0.32	0.51	0.06	0.32	0.38	0.00	535.17	535.17	0.06	0.00	536.43

Table 11 Mitigated Construction Impacts

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive Dust PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2013	0.42	2.91	1.94	0.00	0.12	0.18	0.30	0.03	0.18	0.21	0.00	305.16	305.16	0.03	0.00	305.86
2014	2.14	2.10	1.54	0.00	0.00	0.14	0.15	0.00	0.14	0.14	0.00	230.01	230.01	0.03	0.00	230.57
Total	**2.56**	**5.01**	**3.48**	**0.00**	**0.12**	**0.32**	**0.45**	**0.03**	**0.32**	**0.35**	**0.00**	**535.17**	**535.17**	**0.06**	**0.00**	**536.43**

Overall Operational

Table 12 Unmitigated Operational Impacts

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive Dust PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.70	0.01	0.65	0.00		0.00	0.00		0.00	0.00	0.00	1.04	1.04	0.00	0.00	1.07
Energy	0.01	0.05	0.02	0.00		0.00	0.00		0.00	0.00	0.00	159.60	159.60	0.01	0.00	160.59
Mobile	0.51	1.37	4.68	0.01	0.63	0.05	0.68	0.03	0.05	0.07	0.00	642.09	642.09	0.03	0.00	642.65
Waste						0.00	0.00		0.00	0.00	8.54	0.00	8.54	0.50	0.00	19.14
Water						0.00	0.00		0.00	0.00	0.00	13.59	13.59	0.19	0.00	19.02
Total	**1.22**	**1.43**	**5.35**	**0.01**	**0.63**	**0.05**	**0.68**	**0.03**	**0.05**	**0.07**	**8.54**	**816.32**	**824.86**	**0.73**	**0.00**	**842.47**

Table 13 Mitigated Operational Impacts

	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					
Area	0.66	0.01	0.65	0.00		0.00	0.00		0.00	0.00	0.00	1.04	1.04	0.00	0.00	1.07
Energy	0.00	0.04	0.02	0.00		0.00	0.00		0.00	0.00	0.00	144.08	144.08	0.01	0.00	144.98
Mobile	0.41	1.04	3.66	0.00	0.44	0.03	0.47	0.02	0.03	0.05	0.00	451.73	451.73	0.02	0.00	452.15
Waste						0.00	0.00		0.00	0.00	6.83	0.00	6.83	0.40	0.00	15.31
Water						0.00	0.00		0.00	0.00	0.00	11.67	11.67	0.16	0.00	16.29
Total	1.07	1.09	4.33	0.00	0.44	0.03	0.47	0.02	0.03	0.05	6.83	608.52	615.35	0.59	0.00	629.80

Greenhouse Gas Emissions

Similar to regulated air pollutants, GHG emissions and global climate change also represent cumulative impacts. GHG emissions contribute, on a cumulative basis, to the significant adverse environmental impacts of global climate change. Climate change impacts may include an increase in extreme heat days, higher concentrations of air pollutants, sea level rise, impacts to water supply and water quality, public health impacts, impacts to ecosystems, impacts to agriculture, and other environmental impacts. No single project could generate enough GHG emissions to noticeably change the global average temperature. The combination of GHG emissions from past, present, and future projects contribute substantially to the phenomenon of global climate change and its associated environmental impacts.

Greenhouse Gases – Thresholds of Significance

The Thresholds of Significance for operational-related GHG emissions are: For land use development projects, the threshold is compliance with a qualified GHG Reduction Strategy; or annual emissions less than 1,100 metric tons per year (MT/yr) of CO2e; or 4.6 MT CO2e/SP/yr (residents + employees). Land use development projects include residential, commercial, industrial, and public land uses and facilities. For stationary-source projects, the threshold is 10,000 metric tons per year (MT/yr) of CO2e. Stationary-source projects include land uses that would accommodate processes and equipment that emit GHG emissions and would require an Air District permit to operate. If annual emissions of operational-related GHGs exceed these levels, the proposed project would result in a cumulatively considerable contribution of GHG emissions and a cumulatively significant impact to global climate change. (Bay Area Air Quality Management District, June 2, 2010)

Greenhouse Gases – Analysis

Mitigated	CO2 (metric tpy)	CH4 (metric tpy)	N2O (metric tpy)	CO2e (metric tpy)	% of Total
Area Source:	0.27	0.00	0.00	0.28	06.3%
Energy:	35.05	0.00	0.00	35.27	40.98%
Mobile	45.44	0.00	0.00	45.49	52.99%
Water & Wastewater:	1.03	0.06	0.00	2.30	1.98%
Solid Waste:	2.68	0.04	0.00	03.70	3.74%
Total:	84.47	0.10	0.00	87.04	100.00%
BAAQMD Threshold				1,100 (MT CO_2e per year)	
Significance				No	

Greenhouse Gasses – Study Results

The project would incrementally generate greenhouse gas emissions; however, these emissions would not have a significant impact on the environment. The project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. Impacts would be less than significant.

Conclusions

Toxic Air Contaminates (TAC)

Mobile Sources

Under the BAAQMD CEQA Air Quality Guidelines, an incremental risk of greater than 10 cases per million from a single source at the Maximally Exposed Individual (MEI) would result in a significant impact. Based on the air quality modeling discussed above, cancer risks would be considered less-than-significant for 70-year residential exposures.

The total cancer risk for all sources of roadway toxic air contaminants is 5.04 in a million for all compounds (DPM and organic TACs) would also ***be less than the significant***.

Potential non-cancer health effects due to chronic exposure to DPM were estimated based on the BAAQMD screening tables (Link 430) at 10 feet from SR 185 and 20 feet building height. Thus, the Hazard Index (HI) would be ***less than significant*** for the criterion of a HI greater than 1.0.

Stationary Sources

Since Perchloroethylene must be phased out of use by January 1, 2023, the cancer risks were calculated assuming 10 years of exposure (2013 - 2022). The maximum cancer risks were calculated for a child exposure (using age sensitivity factors) and an adult exposure (age sensitivity factor of 1). The maximum child cancer risk is 0.75 per million and the adult cancer risk is 0.09 per million. Acute and chronic hazard indexes were also calculated and are included in a summary table. These HIs were well below 1.0 and therefore considered Less than Significant

Odors

The construction of the project would not be expected to create a source of any objectionable odors.

Operational Criteria Air Pollutant and Precursor Emissions Analysis

There would be an incremental increase in Operational Air Pollutant Precursor Emissions. However the amount does not rise to the level of significance per the BAAQD CEQA Guidelines. The effect is Less Than Significant

Construction Emissions

Construction of the project would result in the temporary generation of NOx and PM_{10} emissions. Short-term air quality impacts are mostly due to dust (PM_{10}) generated by construction and development activities, and emissions from equipment and vehicle engines (NOx) operated during these activities. Dust generation is dependent on soil type and soil moisture, as well as the amount of total acreage actually involved in clearing, grubbing and grading activities. Clearing and earth-moving activities comprise the major source of construction dust generation, but traffic and general disturbance of the soil also contribute to the problem. Sand, lime or other fine particulate materials may be used during construction, and stored on-site. If not stored properly, such materials could become airborne during periods of high winds.

The effects of construction activities include increased dust fall and locally elevated levels of suspended particulates. PM_{10} is considered unhealthy because the particles are small enough to inhale and damage lung tissue, which can lead to respiratory problems. PM_{10} emissions during pro-

ject construction can be reduced through compliance with institutional requirements for dust abatement and erosion control. The effect is Less Than Significant

Carbon Monoxide Hotspots

No CO hotspots are anticipated as a result of traffic generated emissions by the proposed project in combination with existing or cumulative traffic. Therefore, the mobile-related emissions from the project are not anticipated to contribute substantially to an existing or projected air quality violation and would not expose sensitive receptors to substantial pollutant concentrations. Impacts would be less than significant.

Greenhouse Gas Emissions

The project would incrementally generate greenhouse gas emissions; however, these emissions would not have a significant impact on the environment. The project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. Impacts would be less than significant.

Appendix A – CalEE MoD Dataset: Combined Operational and Construction related Annual and Greenhouse Gas Emissions

Ashland Family Apts

Alameda County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	3.2	1000sqft
Parking Lot	96	Space
Apartments Mid Rise	85	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Utility Company**	Pacific Gas & Electric Company
Climate Zone	4	**Precipitation Freq (Days)**	63		

1.3 User Entered Comments

Project Characteristics -

Land Use -

Construction Phase - Estimates for Construction & Demolition are dependent on County Approvals and contingency plans

Off-road Equipment - Default values for Off Road vehicles

Trips and VMT - Default Values

Demolition -

Grading - Luk and Associates rough earthwork calculation is based on the following assumptions: Cut = ~870 Cubic Yards, Fill = ~4440 Cubic Yards, Net

Vehicle Trips - Source Kimley-Horn and Associates, Inc. (Kimley-Horn) Traffic Study for the Ashland Affordabl;e Apartments June 2011
Default values used for weekend & commercial Trip Generation Rates

Vechicle Emission Factors - Default Values

Vechicle Emission Factors - Default Values

Vechicle Emission Factors - Default Values

Road Dust - Default Values

Woodstoves - Asumes no Woodstoves or Fireplaces in units.

Consumer Products -

Landscape Equipment -

Energy Use - Default Values

Water And Wastewater -

Solid Waste - Default Values

Land Use Change - Community Gardens

Sequestration -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Achitects estimates for Greenpoint adjustments

Water Mitigation -

Waste Mitigation -

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					
2013	0.42	2.91	1.94	0.00	0.17	0.18	0.36	0.06	0.18	0.24	0.00	305.16	305.16	0.03	0.00	305.86
2014	2.14	2.10	1.54	0.00	0.00	0.14	0.15	0.00	0.14	0.14	0.00	230.01	230.01	0.03	0.00	230.57
Total	**2.56**	**5.01**	**3.48**	**0.00**	**0.17**	**0.32**	**0.51**	**0.06**	**0.32**	**0.38**	**0.00**	**535.17**	**535.17**	**0.06**	**0.00**	**536.43**

Mitigated 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					
2013	0.42	2.91	1.94	0.00	0.12	0.18	0.30	0.03	0.18	0.21	0.00	305.16	305.16	0.03	0.00	305.86
2014	2.14	2.10	1.54	0.00	0.00	0.14	0.15	0.00	0.14	0.14	0.00	230.01	230.01	0.03	0.00	230.57
Total	**2.56**	**5.01**	**3.48**	**0.00**	**0.12**	**0.32**	**0.45**	**0.03**	**0.32**	**0.35**	**0.00**	**535.17**	**535.17**	**0.06**	**0.00**	**536.43**

2.2 Overall Operational

Unmitigated Operational

	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					
Area	0.70	0.01	0.65	0.00		0.00	0.00		0.00	0.00	0.00	1.04	1.04	0.00	0.00	1.07
Energy	0.01	0.05	0.02	0.00		0.00	0.00		0.00	0.00	0.00	159.60	159.60	0.01	0.00	160.59
Mobile	0.51	1.37	4.68	0.01	0.63	0.05	0.68	0.03	0.05	0.07	0.00	642.09	642.09	0.03	0.00	642.65
Waste						0.00	0.00		0.00	0.00	8.54	0.00	8.54	0.50	0.00	19.14
Water						0.00	0.00		0.00	0.00	0.00	13.59	13.59	0.19	0.00	19.02
Total	**1.22**	**1.43**	**5.35**	**0.01**	**0.63**	**0.05**	**0.68**	**0.03**	**0.05**	**0.07**	**8.54**	**816.32**	**824.86**	**0.73**	**0.00**	**842.47**

2.2 Overall Operational

Mitigated Operational

	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					
Area	0.66	0.01	0.65	0.00		0.00	0.00		0.00	0.00	0.00	1.04	1.04	0.00	0.00	1.07
Energy	0.00	0.04	0.02	0.00		0.00	0.00		0.00	0.00	0.00	144.08	144.08	0.01	0.00	144.98
Mobile	0.41	1.04	3.66	0.00	0.44	0.03	0.47	0.02	0.03	0.05	0.00	451.73	451.73	0.02	0.00	452.15
Waste						0.00	0.00		0.00	0.00	6.83	0.00	6.83	0.40	0.00	15.31
Water						0.00	0.00		0.00	0.00	0.00	11.67	11.67	0.16	0.00	16.29
Total	**1.07**	**1.09**	**4.33**	**0.00**	**0.44**	**0.03**	**0.47**	**0.02**	**0.03**	**0.05**	**6.83**	**608.52**	**615.35**	**0.59**	**0.00**	**629.80**

2.3 Vegetation

Vegetation

	ROG	NOx	CO	SO2	CO2e
Category	tons				MT
New Trees					29.36
Vegetation Land Change					1.55
Total					**30.91**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

3.2 Demolition - 2013

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	0.00	0.00
Off-Road	0.04	0.26	0.19	0.00		0.02	0.02		0.02	0.02	0.00	28.33	28.33	0.00	0.00	28.39
Total	**0.04**	**0.26**	**0.19**	**0.00**	**0.00**	**0.02**	**0.02**	**0.00**	**0.02**	**0.02**	**0.00**	**28.33**	**28.33**	**0.00**	**0.00**	**28.39**

3.2 Demolition - 2013

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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.00	0.00	1.20
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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.75	0.00	0.00	0.75
Total	**0.00**	**0.01**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.95**	**1.95**	**0.00**	**0.00**	**1.95**

Mitigated 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	0.00	0.00
Off-Road	0.04	0.26	0.19	0.00		0.02	0.02		0.02	0.02	0.00	28.33	28.33	0.00	0.00	28.39
Total	**0.04**	**0.26**	**0.19**	**0.00**	**0.00**	**0.02**	**0.02**	**0.00**	**0.02**	**0.02**	**0.00**	**28.33**	**28.33**	**0.00**	**0.00**	**28.39**

3.2 Demolition - 2013

Mitigated 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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.20	0.00	0.00	1.20
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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.75	0.00	0.00	0.75
Total	**0.00**	**0.01**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.95**	**1.95**	**0.00**	**0.00**	**1.95**

3.3 Site Preparation - 2013

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					0.09	0.00	0.09	0.05	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.05	0.39	0.21	0.00		0.02	0.02		0.02	0.02	0.00	35.13	35.13	0.00	0.00	35.22
Total	**0.05**	**0.39**	**0.21**	**0.00**	**0.09**	**0.02**	**0.11**	**0.05**	**0.02**	**0.07**	**0.00**	**35.13**	**35.13**	**0.00**	**0.00**	**35.22**

3.3 Site Preparation - 2013

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	0.02	0.18	0.08	0.00	0.06	0.01	0.07	0.00	0.01	0.01	0.00	24.90	24.90	0.00	0.00	24.92
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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	**0.02**	**0.18**	**0.08**	**0.00**	**0.06**	**0.01**	**0.07**	**0.00**	**0.01**	**0.01**	**0.00**	**25.15**	**25.15**	**0.00**	**0.00**	**25.17**

Mitigated 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					0.04	0.00	0.04	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.05	0.39	0.21	0.00		0.02	0.02		0.02	0.02	0.00	35.13	35.13	0.00	0.00	35.22
Total	**0.05**	**0.39**	**0.21**	**0.00**	**0.04**	**0.02**	**0.06**	**0.02**	**0.02**	**0.04**	**0.00**	**35.13**	**35.13**	**0.00**	**0.00**	**35.22**

3.3 Site Preparation - 2013

Mitigated 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	0.02	0.18	0.08	0.00	0.06	0.01	0.07	0.00	0.01	0.01	0.00	24.90	24.90	0.00	0.00	24.92
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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.25
Total	**0.02**	**0.18**	**0.08**	**0.00**	**0.06**	**0.01**	**0.07**	**0.00**	**0.01**	**0.01**	**0.00**	**25.15**	**25.15**	**0.00**	**0.00**	**25.17**

3.4 Grading - 2013

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					0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.05	0.33	0.23	0.00		0.02	0.02		0.02	0.02	0.00	33.54	33.54	0.00	0.00	33.62
Total	**0.05**	**0.33**	**0.23**	**0.00**	**0.01**	**0.02**	**0.03**	**0.00**	**0.02**	**0.02**	**0.00**	**33.54**	**33.54**	**0.00**	**0.00**	**33.62**

3.4 Grading - 2013

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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	1.10	0.00	0.00	1.10
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.10**	**1.10**	**0.00**	**0.00**	**1.10**

Mitigated 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	0.00	0.00
Off-Road	0.05	0.33	0.23	0.00		0.02	0.02		0.02	0.02	0.00	33.54	33.54	0.00	0.00	33.62
Total	**0.05**	**0.33**	**0.23**	**0.00**	**0.00**	**0.02**	**0.02**	**0.00**	**0.02**	**0.02**	**0.00**	**33.54**	**33.54**	**0.00**	**0.00**	**33.62**

3.4 Grading - 2013

Mitigated 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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	1.10	0.00	0.00	1.10
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.10**	**1.10**	**0.00**	**0.00**	**1.10**

3.5 Building Construction - 2013

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	0.27	1.74	1.20	0.00		0.12	0.12		0.12	0.12	0.00	179.96	179.96	0.02	0.00	180.42
Total	**0.27**	**1.74**	**1.20**	**0.00**		**0.12**	**0.12**		**0.12**	**0.12**	**0.00**	**179.96**	**179.96**	**0.02**	**0.00**	**180.42**

3.5 Building Construction - 2013

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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Mitigated 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	0.27	1.74	1.20	0.00		0.12	0.12		0.12	0.12	0.00	179.96	179.96	0.02	0.00	180.42
Total	**0.27**	**1.74**	**1.20**	**0.00**		**0.12**	**0.12**		**0.12**	**0.12**	**0.00**	**179.96**	**179.96**	**0.02**	**0.00**	**180.42**

3.5 Building Construction - 2013

Mitigated 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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.29	1.86	1.37	0.00		0.12	0.12		0.12	0.12	0.00	207.64	207.64	0.02	0.00	208.14
Total	**0.29**	**1.86**	**1.37**	**0.00**		**0.12**	**0.12**		**0.12**	**0.12**	**0.00**	**207.64**	**207.64**	**0.02**	**0.00**	**208.14**

3.5 Building Construction - 2014

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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Mitigated 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	0.29	1.86	1.37	0.00		0.12	0.12		0.12	0.12	0.00	207.64	207.64	0.02	0.00	208.14
Total	**0.29**	**1.86**	**1.37**	**0.00**		**0.12**	**0.12**		**0.12**	**0.12**	**0.00**	**207.64**	**207.64**	**0.02**	**0.00**	**208.14**

3.5 Building Construction - 2014

Mitigated 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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.6 Paving - 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	0.03	0.21	0.14	0.00		0.02	0.02		0.02	0.02	0.00	18.69	18.69	0.00	0.00	18.75
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**	**0.21**	**0.14**	**0.00**		**0.02**	**0.02**		**0.02**	**0.02**	**0.00**	**18.69**	**18.69**	**0.00**	**0.00**	**18.75**

3.6 Paving - 2014

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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	1.76	0.00	0.00	1.76
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.76**	**1.76**	**0.00**	**0.00**	**1.76**

Mitigated 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	0.21	0.14	0.00		0.02	0.02		0.02	0.02	0.00	18.69	18.69	0.00	0.00	18.75
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**	**0.21**	**0.14**	**0.00**		**0.02**	**0.02**		**0.02**	**0.02**	**0.00**	**18.69**	**18.69**	**0.00**	**0.00**	**18.75**

3.6 Paving - 2014

Mitigated 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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	1.76	0.00	0.00	1.76
Total	**0.00**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.76**	**1.76**	**0.00**	**0.00**	**1.76**

3.7 Architectural Coating - 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					
Archit. Coating	1.81					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	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.91	1.91	0.00	0.00	1.92
Total	**1.81**	**0.02**	**0.01**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**1.91**	**1.91**	**0.00**	**0.00**	**1.92**

3.7 Architectural Coating - 2014

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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Mitigated 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	1.81					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	0.01	0.00		0.00	0.00		0.00	0.00	0.00	1.91	1.91	0.00	0.00	1.92
Total	**1.81**	**0.02**	**0.01**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**1.91**	**1.91**	**0.00**	**0.00**	**1.92**

3.7 Architectural Coating - 2014

Mitigated 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	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	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Provide Traffic Calming Measures

	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					
Mitigated	0.41	1.04	3.66	0.00	0.44	0.03	0.47	0.02	0.03	0.05	0.00	451.73	451.73	0.02	0.00	452.15
Unmitigated	0.51	1.37	4.68	0.01	0.63	0.05	0.68	0.03	0.05	0.07	0.00	642.09	642.09	0.03	0.00	642.65
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	560.15	608.60	515.95	1,251,815	865,126
General Office Building	35.23	7.58	3.14	63,800	44,092
Parking Lot	0.00	0.00	0.00		
Total	595.38	616.18	519.09	1,315,615	909,218

4.3 Trip Type Information

	Miles			Trip %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Mid Rise	12.40	4.30	5.40	26.10	29.10	44.80
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	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					
Electricity Mitigated						0.00	0.00		0.00	0.00	0.00	98.22	98.22	0.00	0.00	98.84
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	107.23	107.23	0.00	0.00	107.90
NaturalGas Mitigated	0.00	0.04	0.02	0.00		0.00	0.00		0.00	0.00	0.00	45.86	45.86	0.00	0.00	46.14
NaturalGas Unmitigated	0.01	0.05	0.02	0.00		0.00	0.00		0.00	0.00	0.00	52.36	52.36	0.00	0.00	52.68
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	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
Land Use	kBTU	tons/yr										MT/yr					
Apartments Mid Rise	926176	0.00	0.04	0.02	0.00		0.00	0.00		0.00	0.00	0.00	49.42	49.42	0.00	0.00	49.73
General Office Building	55104	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.94	2.94	0.00	0.00	2.96
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		**0.00**	**0.04**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**52.36**	**52.36**	**0.00**	**0.00**	**52.69**

Mitigated

	NaturalGas Use	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
Land Use	kBTU	tons/yr										MT/yr					
Apartments Mid Rise	812515	0.00	0.04	0.02	0.00		0.00	0.00		0.00	0.00	0.00	43.36	43.36	0.00	0.00	43.62
General Office Building	46867.2	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	2.50	2.50	0.00	0.00	2.52
Parking Lot	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total		**0.00**	**0.04**	**0.02**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**45.86**	**45.86**	**0.00**	**0.00**	**46.14**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	305537					88.88	0.00	0.00	89.44
General Office Building	63072					18.35	0.00	0.00	18.46
Parking Lot	0					0.00	0.00	0.00	0.00
Total						**107.23**	**0.00**	**0.00**	**107.90**

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
Apartments Mid Rise	280260					81.53	0.00	0.00	82.04
General Office Building	57374.4					16.69	0.00	0.00	16.80
Parking Lot	0					0.00	0.00	0.00	0.00
Total						**98.22**	**0.00**	**0.00**	**98.84**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

	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					
Mitigated	0.66	0.01	0.65	0.00		0.00	0.00		0.00	0.00	0.00	1.04	1.04	0.00	0.00	1.07
Unmitigated	0.70	0.01	0.65	0.00		0.00	0.00		0.00	0.00	0.00	1.04	1.04	0.00	0.00	1.07
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.18					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.49					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.02	0.01	0.65	0.00		0.00	0.00		0.00	0.00	0.00	1.04	1.04	0.00	0.00	1.07
Total	**0.69**	**0.01**	**0.65**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**1.04**	**1.04**	**0.00**	**0.00**	**1.07**

Mitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.18					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.46					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.02	0.01	0.65	0.00		0.00	0.00		0.00	0.00	0.00	1.04	1.04	0.00	0.00	1.07
Total	**0.66**	**0.01**	**0.65**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**1.04**	**1.04**	**0.00**	**0.00**	**1.07**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Use Water Efficient Landscaping

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					11.67	0.16	0.00	16.29
Unmitigated					13.59	0.19	0.00	19.02
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	5.53809 / 3.49141					12.33	0.17	0.00	17.26
General Office Building	0.568748 / 0.348587					1.26	0.02	0.00	1.76
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Total						**13.59**	**0.19**	**0.00**	**19.02**

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
Apartments Mid Rise	4.70738 / 3.07244					10.59	0.14	0.00	14.78
General Office Building	0.483436 / 0.306757					1.08	0.01	0.00	1.51
Parking Lot	0 / 0					0.00	0.00	0.00	0.00
Total						**11.67**	**0.15**	**0.00**	**16.29**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					6.83	0.40	0.00	15.31
Unmitigated					8.54	0.50	0.00	19.14
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	39.1					7.94	0.47	0.00	17.79
General Office Building	2.98					0.60	0.04	0.00	1.36
Parking Lot	0					0.00	0.00	0.00	0.00
Total						**8.54**	**0.51**	**0.00**	**19.15**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
Apartments Mid Rise	31.28					6.35	0.38	0.00	14.23
General Office Building	2.384					0.48	0.03	0.00	1.08
Parking Lot	0					0.00	0.00	0.00	0.00
Total						**6.83**	**0.41**	**0.00**	**15.31**

9.0 Vegetation

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons				MT			
Unmitigated					30.91	0.00	0.00	30.91
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

9.1 Vegetation Land Change

Vegetation Type

	Initial/Final	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	Acres	tons				MT			
Cropland	0 / 0.25					1.55	0.00	0.00	1.55
Total						**1.55**	**0.00**	**0.00**	**1.55**

9.1 Net New Trees

Species Class

	Number of Trees	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
		tons				MT			
Mixed Hardwood	40					29.36	0.00	0.00	29.36
Total						**29.36**	**0.00**	**0.00**	**29.36**

Appendix B – Biological Resources

- **California Department of Fish and Game.** Endangered Species List for Hayward Quad. *CNDDB Quick Viewer.* [Online] [Cited: September 21, 2012.] http://imaps.dfg.ca.gov/viewers/cnddb_quickviewer/app.asp.

- **U.S. Fish & Wildlife Services.** *Federal Endangered and Threatened Species that Occur in or may be Affected by Projects in the Hayward (447A) U.S.G.S. 7 1/2 minute Quad.* Sacramento, CA : s.n., Database last updated: September 18, 2011; Report Date: September 21, 2012.

- **United States Fish & Wildlife Service.** National Wetlands Inventory. [Online] [Cited: September 20, 2012.] http://www.fws.gov/nwi.

- **Federal Emergency Management Agency (FEMA).** *Flood Insurance Rate Map (FIRM).* Alameda County, California : s.n., Effective Date August 3, 2009. FIRM Map Panel Number # 06001C0278 G.

November 7, 2012

Alicia F. Klein
Senior Project Manager
Resources for Community Development
2220 Oxford Street
Berkeley, CA 94704

Re: Ashland Family Housing, 16309-16331 Kent Avenue, San Lorenzo, California - Biological Reconnaissance

Dear Ms. Klein:

The purpose of this letter is to inform you of the results of the biological resources site reconnaissance for the Ashland Family Housing project (Study Area) located at 1609-16331 Kent Avenue, San Lorenzo, California. Specifically, this letter addresses the Study Area's potential to include 1) sensitive vegetation and aquatic communities and 2) habitat sufficient to support special-status plant and wildlife species. Most of the Study Area is developed as a mobile-home park, three single family residences, and various outbuildings. WRA biologists did not observe sensitive plant communities or jurisdictional waters during a site visit on 5 November, 2012. A description of the Study Area, the proposed project, pertinent regulations, and recommendations are included in the sections below.

PROPOSED PROJECT

The proposed project will include the development of 85 affordable rental apartments. The project will include the removal of the structures currently on-site, and the construction of mixed use residential and commercial space, including twenty-nine (29) one-bedroom, thirty (30) two-bedroom, and twenty-five (25) three-bedroom units along with a three-bedroom manager's unit located around a central green space. Of the vegetation currently in the Study Area, the jacaranda (*Jacaranda mimosifolia)* and Mexican Ash (*Fraxinus berlandieriana)* will be preserved and incorporated into the proposed project.

REGULATIONS

Sensitive Biological Communities

Sensitive biological communities include habitats that fulfill special functions or have special values, such as wetlands, streams, or riparian habitat. These habitats are protected under federal regulations such as the Clean Water Act; state regulations such as the Porter-Cologne Act, the CDFG Streambed Alteration Program, and CEQA; or local ordinances or policies such as city or county tree ordinances, Special Habitat Management Areas, and General Plan Elements.

Waters of the United States

The U.S. Army Corps of Engineers (Corps) regulates "Waters of the United States" under Section 404 of the Clean Water Act. Waters of the U.S. are defined in the Code of Federal Regulations (CFR) as waters susceptible to use in commerce, including interstate waters and wetlands, all other waters (intrastate waterbodies, including wetlands), and their tributaries (33 CFR 328.3). Potential wetland areas, according to the three criteria used to delineate wetlands as defined in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987), are identified by the presence of (1) hydrophytic vegetation, (2) hydric soils, and (3) wetland hydrology. Areas that are inundated at a sufficient depth and for a sufficient duration to exclude growth of hydrophytic vegetation are subject to Section 404 jurisdiction as non-wetland waters and are often characterized by an ordinary high water mark (OHWM). These features generally include lakes, rivers, and streams. The placement of fill material into Waters of the U.S generally requires an individual or nationwide permit from the Corps under Section 404 of the Clean Water Act.

Waters of the State

The term "Waters of the State" is defined by the Porter-Cologne Act as "any surface water or groundwater, including saline waters, within the boundaries of the state." The Regional Water Quality Control Board (RWQCB) protects all waters in its regulatory scope and has special responsibility for wetlands, riparian areas, and headwaters. These waterbodies have high resource value, are vulnerable to filling, and are not systematically protected by other programs. RWQCB jurisdiction includes "isolated" wetlands and waters that may not be regulated by the Corps under Section 404. Waters of the State are regulated by the RWQCB under the State Water Quality Certification Program which regulates discharges of fill and dredged material under Section 401 of the Clean Water Act and the Porter-Cologne Water Quality Control Act. Projects that require a Corps permit, or fall under other federal jurisdiction, and have the potential to impact Waters of the State, are required to comply with the terms of the Water Quality Certification determination. If a proposed project does not require a federal permit, but does involve dredge or fill activities that may result in a discharge to Waters of the State, the RWQCB has the option to regulate the dredge and fill activities under its state authority in the form of Waste Discharge Requirements.

Streams, Lakes, and Riparian Habitat

Streams and lakes, as habitat for fish and wildlife species, are subject to jurisdiction by CDFG under Sections 1600-1616 of California Fish and Game Code. Alterations to or work within or adjacent to streambeds or lakes generally require a 1602 Lake and Streambed Alteration Agreement. The term "stream", which includes creeks and rivers, is defined in the California Code of Regulations (CCR) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation" (14 CCR 1.72). In addition, the term "stream" can include ephemeral streams, dry washes, watercourses with subsurface flows, canals, aqueducts, irrigation ditches, and other means of water conveyance if they support aquatic life, riparian vegetation, or stream-dependent terrestrial wildlife (CDFG 1994). "Riparian" is defined as "on, or pertaining to, the banks of a stream." Riparian vegetation is defined as "vegetation which occurs in and/or adjacent to a stream and is dependent on, and occurs because of, the stream itself" (CDFG 1994). Removal of riparian vegetation also requires a Section 1602 Lake and Streambed Alteration Agreement from CDFG.

Other Sensitive Biological Communities

Other sensitive biological communities not discussed above include habitats that fulfill special functions or have special values. Natural communities considered sensitive are those identified in local or regional plans, policies, regulations, or by the CDFG. CDFG ranks sensitive communities as "threatened" or "very threatened" and keeps records of their occurrences in its California Natural Diversity Database (CNDDB; CDFG 2012). Sensitive plant communities are also identified by CDFG (Holland 1986, Sawyer et al. 2009, CDFG 2010). CNDDB vegetation alliances are ranked 1 through 5 based on NatureServe's (2012) methodology, with those alliances ranked globally (G) or statewide (S) as 1 through 3 considered sensitive. Impacts to sensitive natural communities identified in local or regional plans, policies, or regulations or those identified by the CDFG or USFWS must be considered and evaluated under CEQA (CCR Title 14, Div. 6, Chap. 3, Appendix G). Specific habitats may also be identified as sensitive in city or county general plans or ordinances.

Special-Status Plant and Wildlife Species

Special-status species include those plants and wildlife species that have been formally listed, are proposed as endangered or threatened, or are candidates for such listing under the federal Endangered Species Act (ESA) or California Endangered Species Act (CESA). These acts afford protection to both listed and proposed species. In addition, California Department of Fish and Game (CDFG) Species of Special Concern, which are species that face extirpation in California if current population and habitat trends continue, U.S. Fish and Wildlife Service (USFWS) Birds of Conservation Concern, and CDFG special-status invertebrates, are all considered special-status species. Although CDFG Species of Special Concern generally have no special legal status, they are given special consideration under the California Environmental Quality Act (CEQA). In addition to regulations for special-status species, most birds in the United States, including non-status species, are protected by the Migratory Bird Treaty Act of 1918. Under this legislation, destroying active nests, eggs, and young is illegal. Plant species on California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (Inventory) with California Rare Plant Ranks (Rank) of 1 and 2 are also considered special-status plant species and must be considered under CEQA. Rank 3 and Rank 4 species have little or no protection under CEQA.

METHODS

On November 5, 2012 WRA Inc. (WRA) conducted a site visit of the Study Area. Prior to the site visit, background literature was reviewed to determine potential presence of sensitive vegetation types, aquatic communities, and special-status plant and wildlife species. Resources reviewed include aerial photography, mapped soil types, the California Department of Fish and Game's (CDFG) California Natural Diversity Database (CNDDB; CDFG 2012), the Hayward USGS 7.5' quadrangle map (1980), the National Wetland Inventory (NWI; USFWS 2012), the California Native Plant Society (CNPS) Online Database (2012), USFWS species list for Alameda County (2012), and species habitat requirements as noted in available literature.

The Study Area was traversed on foot by a biologist familiar with vegetation and aquatic communities and special-status species known from Alameda County. All vegetation and aquatic communities were mapped in the field. All plant and wildlife species observed on-site were noted. Site conditions were also noted as they relate to the habitat requirements of special-status plant and wildlife species known from the vicinity, and the potential of these species to occur within the Study Area was assessed.

RESULTS

Biological communities observed within the Study Area are shown in Figure 1 (Attachment A). Plant and wildlife species observed during the site visit are provided in Tables 1 and 2 (Attachment B). Photographs of the Study Area are included in Attachment C.

Site Conditions

Based on adjacent land-use and current conditions, the Study Area appears to have been developed no less than 50 years ago. The Study Area currently includes a mobile home park, three individual residences, and several outbuildings. Development has resulted in an impermeable layer (i.e. asphalt), likely six inches to two feet deep, which is underlain by Danville silty clay loam. Due to the impermeable layer, most surface water which falls on-site flows off-site to be collected by the San Lorenzo municipal water system.

Biological Communities

Developed / Landscaped Areas

The majority of the Study Area is developed, including landscaped areas (approximately 2.21 acres). The developed area is primarily devoted to mobile home accommodations, though it also includes three permanent homes, a covered garage area, and several non-habitable "outbuildings". The remainder of the developed area is devoted to paved roads and driveways. Remainder of the Study Area features landscaped areas are dominated by a variety of common invasive herbs and vines, including English ivy (*Hedera helix* – NL), bull mallow (*Malva nicaeensis* – NL), bristly ox-tongue (*Helminthotheca echioides* – FACU), and prickly lettuce (*Lactuca serriola* - FACU), as well as non-native ornamental trees and shrubs.

Special-status Plant Species

Twelve special-status plant species have been recorded within five miles of the Study Area (CNPS 2012, CDFG 2012). No special-status plant species were observed in the Study Area during the site assessment. California seablite (*Suaeda californica,* 1B), Congdon's tarplant (*Hemizonia parryi ssp. congdonii,* 1B), Contra Costa goldfields (*Lasthenia conjugens,* 1B), Diablo helianthella (*Helianthella castanea* 1B), Santa Cruz tarplant (*Holocarpha macradenia,* 1B), alkali milk-vetch (*Astragalus tener* var. *tener,* 1B), big-scale balsamroot (*Balsamorhiza macrolepis,* 1B), fragrant fritillary (*Fritillaria liliacea,* 1B), hairless popcorn-flower (*Plagiobothrys glaber* 1A), most beautiful jewel-flower (*Streptanthus albidus ssp. peramoenus,* 1B), robust monardella (*Monardella villosa ssp. globosa,* 1B), and woodland woolly-threads (*Monolopia gracilens,* 1B) do not have the potential to occur in the Study Area due to:

- Specific edaphic conditions, such as alkali soils, are absent;
- Specific hydrologic conditions, such as brackish tidal, are absent;
- Common plant species and vegetation community are absent;
- The Study Area is below the known elevation range.
- The land use and disturbance has reduced the seed bank of most or all native species.

Special-status Wildlife Species

Of the special-status wildlife species whose occurrences are tracked by CNDDB, 17 species have been recorded within five miles of the Study Area. No special-status wildlife species were observed in the Study Area during the site assessment. Most of the special-status species known from the vicinity occur in specific, native habitat types that do not occur within the Study Area (e.g., tidal wetlands, perennial ponds). Based on review of CNDDB and other literature, two special-status wildlife species have a moderate potential to occur in the Study Area. Neither species is listed under the federal or California Endangered Species Acts. The species with potential to occur are discussed in more detail below.

White-tailed kite (Elanus leucurus), CDFG Fully Protected Species

White-tailed kite occurs in low elevation grassland, agricultural, wetland, oak woodland, and savannah habitats. Riparian zones adjacent to open areas are also used. Vegetative structure and prey availability seem to be more important than specific associations with plant species or vegetative communities. Lightly grazed or ungrazed fields generally support large prey populations and are often preferred to other habitats. Kites primarily feed on small mammals, although, birds, reptiles, amphibians, and insects are also taken. Nest trees range from single isolated trees to trees within large contiguous forests. Preferred nest trees are extremely variable, ranging from small shrubs (less than 10 ft. tall), to large trees (greater than 150 ft. tall) (Dunk 1995).

Although this species is not known to occur within five miles, the Study Area is within the known range of this species and suitable nesting habitat is present on-site. Although the Study Area and immediate surrounds are completely developed, high quality foraging habitat is located approximately one-mile north of the Study Area – well within the daily commuting distance for this species. White-tailed kite has a moderate potential to occur within the Study Area.

Pallid Bat (Antrozous pallidus), CDFG Species of Special Concern, WBWG High Priority

Pallid bats are distributed from southern British Columbia and Montana to central Mexico, and east to Texas, Oklahoma, and Kansas. This species occurs in a number of habitats ranging from rocky arid deserts to grasslands, and into higher elevation coniferous forests. They are most abundant in the arid Sonoran life zones below 6,000 feet, but have been found up to 10,000 feet in the Sierra Nevada. Pallid bats often roost in colonies of between 20 and several hundred individuals. Roosts are typically in rock crevices, tree hollows, mines, caves, and a variety of man-made structures, including vacant and occupied buildings. Tree roosting has been documented in large conifer snags (e.g. ponderosa pine), inside basal hollows of redwoods and giant sequoias, and within bole cavities in oak trees. They have also been reported roosting in stacks of burlap sacks and stone piles. Pallid bats are primarily insectivorous, feeding on large prey that is taken on the ground, or sometimes in flight. Prey items include arthropods such as scorpions, ground crickets, and cicadas (WBWG 2010).

The structures located within the Study Area that are slated for demolition could potentially host roosting bats. Thermal conditions, egress and access to resources would influence the number of bats and type of roost that could potentially be present. Because of the extent of urbanization surrounding the Study Area, access to prey and water in the immediate vicinity of the Study Area is limited, however, high quality foraging habitat and open water for drinking is present approximately one-mile to the north. This species has a moderate potential to occur.

In addition to the special-status species discussed above, a variety of non-special-status native birds protected under the federal Migratory Bird Treaty Act have the potential to nest within the Study Area. Suitable bird nesting substrates include trees and other vegetation, as well as buildings. The legal protection of these species includes their eggs and/or chicks during the nesting period.

SUMMARY AND RECOMMENDATIONS

The Study Area is composed entirely of developed habitat. No sensitive plant communities or jurisdictional waters were identified within the Study Area. Twelve special-status plant species have been documented within five miles of the Study Area; however, none have any potential to occur within the Study Area. Two special-status wildlife species and non-special-status bird species have the potential to occur within the Study Area.

Sensitive Biological Communities

The developed/landscaped communities are not considered sensitive communities; therefore, there are no further recommendations and the Project will have no impacts to sensitive biological communities.

Special-status Plant Species

The Study Area does not have the potential to support special-status plant species; therefore, there are no further recommendations, and the Project will have no impacts to special-status plant species.

Special-status Wildlife Species

Two special-status wildlife species have the potential to occur within the Study Area on a non-incidental basis.

This assessment determined that one special-status bird species, white-tailed kite, is unlikely to use the Study Area for foraging but may use it for nesting. Additionally, other non-special-status bird species nesting within the Study Area are protected by the Migratory Bird Treaty Act (MBTA); therefore, the following recommendations are prescribed to avoid impacts to nesting birds.

Non-breeding season: Approximately September 1 to January 31

WRA recommends that initial vegetation removal, clearing and grubbing be initiated in the non-breeding season, defined as September 1 to January 31. During this period breeding is not occurring and surveys are not required. However, if nesting birds are encountered during work activities in the non-breeding season, disturbance activities within a minimum of 50 feet of the nest should be postponed until the nest is abandoned or young birds have fledged.

Breeding season: Approximately February 1 to August 31

Between February 1 and August 31, it is recommended that pre-construction breeding bird surveys be conducted by a qualified biologist prior to and within 10 days of any initial ground disturbance activities. Surveys should be conducted within all suitable nesting habitat within 250 feet of the grading activity when feasible. Active nests of MBTA species identified at that time should be protected by a 50-foot radius exclusion zone. Active raptor or special-status species' nests should be protected by a buffer with a radius of 200 feet. CDFG recommends a minimum 500 foot exclusion buffer be established around active white-tailed kite nests. Survey results are valid for 14 days from the survey date. Should ground disturbance commence later than 14 days from the survey date, surveys should be repeated. If no breeding birds are encountered then work may commence as planned.

Exclusion zone sizes may vary depending on habitat characteristics and species, and are generally larger for raptors and colonial nesting birds. Each exclusion zone would remain in place until the nest is abandoned or all young have fledged.

The assessment also determined that one special status bat species could potentially use the structures within the Study Area as roosting habitat. Additionally, California Fish and Game Code protects non-special-status roosting bats. The removal or demolition of on-site structures could potentially affect roosting bats. WRA prescribes the following measures to avoid impacts to roosting bats.

Non-roosting Season: Approximately September 1 to October 31

WRA recommends that any initial demolition and removal of on-site structures be conducted during the non-roosting season. During this period, no preconstruction emergence surveys are required. If evidence of roosting is observed during work activities, consultation with a qualified bat biologist to determine an appropriate exclusion buffer is recommended.

Hibernation Season: Approximately November 1 to March 31

WRA recommends internal searches of all structures slated for removal or demolition to determine presence/absence of bat hibernation roosts. All active roosts identified during surveys should be protected by a buffer to be determined by a qualified bat biologist. The buffer will be determined by the type of bat observed, sensitivity of roost, type of potential disturbance, etc. Each exclusion zone would remain in place until the end of the hibernation season or until the bats leave on their own accord. If no active roosts are identified then work may commence as planned. Survey results are valid for 30 days from the survey date. Should work commence later than 30 days from the survey date, surveys should be repeated.

Maternity Roosting Season: Approximately April 1 to August 31

WRA recommends night-time evening emergence surveys and/or internal searches of all structures slated for removal or demolition to determine presence/absence of bat maternity roosts. All active roosts identified during surveys should be protected by a buffer to be determined by a qualified bat biologist. The buffer will be determined by the type of bat observed, sensitivity of roost, type of potential disturbance, etc. Each exclusion zone would remain in place until the end of the maternity roosting season. If no active roosts are identified then work may commence as planned. Survey results are valid for 30 days from the survey date. Should work commence later than 30 days from the survey date, surveys should be repeated.

Consultation with CDFG may be warranted to determine appropriate mitigation measures if roosts are disturbed or destroyed.

Please do not hesitate to contact our office should you have any questions, comments, or concerns.

Sincerely,

Rob Schell
Wildlife Biologist

REFERENCES

Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken (eds). 2012. The Jepson Manual: Vascular Plants of California, 2nd Edition. University of California Press, Berkeley, California.

California Department of Fish and Game (CDFG). 2012. Natural Diversity Database, Wildlife and Habitat Data Analysis Branch. Sacramento, California. Accessed: November 2012.

California Department of Fish and Game (CDFG). 2010. Vegetation Alliance List. Biogeographic Data Branch. Sacramento, California.

California Invasive Plant Council (Cal-IPC). 2006. California Invasive Plant Inventory: Cal-IPC Publication 2006-2. California Invasive Plant Council, Berkeley, California. Accessed: October 2012.

California Native Plant Society (CNPS). 2012. Electronic Inventory of Rare and Endangered Vascular Plants of California. California Native Plant Society, Sacramento, California. Available at: http://www.rareplants.cnps.org/. Accessed: November 2012

Hickman, J.C. (ed). 1993. The Jepson Manual of Higher Plants of California. University of California Press, Berkeley and Los Angeles, California.

Holland, R.F. 1986. Preliminary Descriptions of the Terrestrial Natural Communities of California. California Department of Fish and Game, Sacramento, California.

Lichvar, R.W. and J.T. Kartesz. 2009. North American Digital Flora: National Wetland Plant List, version 2.0. U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH, and BONAP, Chapel Hill, NC. Available at: https://wetland_plants.usace.army.mil. Accessed: November 2012.

NatureServe. 2012. NatureServer Explorer: NatureServe Conservation Status. Available at: http://www.natureserve.org/explorer/ranking#relationship. Accessed: November 2012.

Sawyer, J.O. T. Keeler-Wolf, and J.M. Evens. 2009. A Manual of California Vegetation, 2nd Edition. California Native Plant Society in collaboration with California Department of Fish and Game. Sacramento, California.

U.S. Fish and Wildlife Service (USFWS), National Wetlands Inventory (NWI). 2012. National Wetlands Inventory website. U.S. Department of the Interior, USFWS, Washington D.C. Available at: http://www.fws.gov/nwi/. Accessed: November 2012.

U.S. Fish and Wildlife Service (USFWS). 2012. Alameda County Species Lists, Sacramento Fish and Wildlife Service. Accessed: November 2012.

U.S. Geological Survey (USGS). 1980. USGS 7.5-minute quadrangle series: Hayward.

Western Bat Working Group (WBWG). 2010. Species Accounts. Available online at: http://www.wbwg.org/speciesinfo/species_accounts/species_accounts.html. Accessed: July 2010.

Attachment A – Study Area Maps

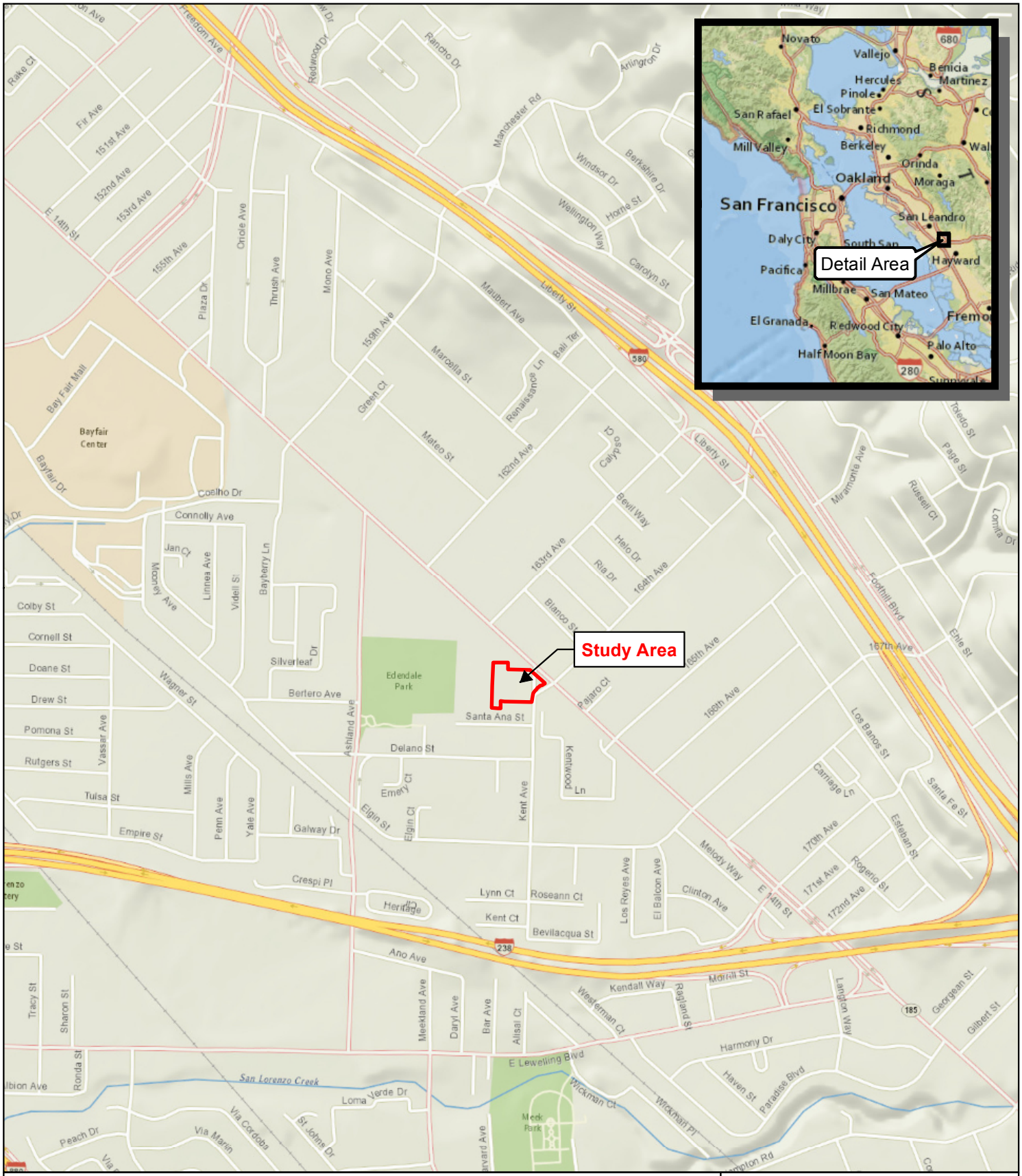


Figure A-1. Study Area Location Map

N
W E
S

0 500 1,000 2,000
Feet

wra
ENVIRONMENTAL CONSULTANTS

Ashland Family Apartments
Alameda County, California

Map Date: November 2012
Map By: Derek Chan
Base Source: ESRI/National Geographic

Path: L:\Acad 2000 Files\22000\22268\GIS\ArcMap\Fig1_LocMap_20121102.mxd

wra
ENVIRONMENTAL CONSULTANTS

Ashland Family Apartments

Alameda County, California

Figure A-2.

Study Area Aerial

N
W E
S

0 50 100

Feet

Map Date: November 2012
Map By: Derek Chan
Base Source: USGS 2008

Path: L:\Acad 2000 Files\22000\22268\GIS\ArcMap\Fig2_Aerial_20121105.mxd

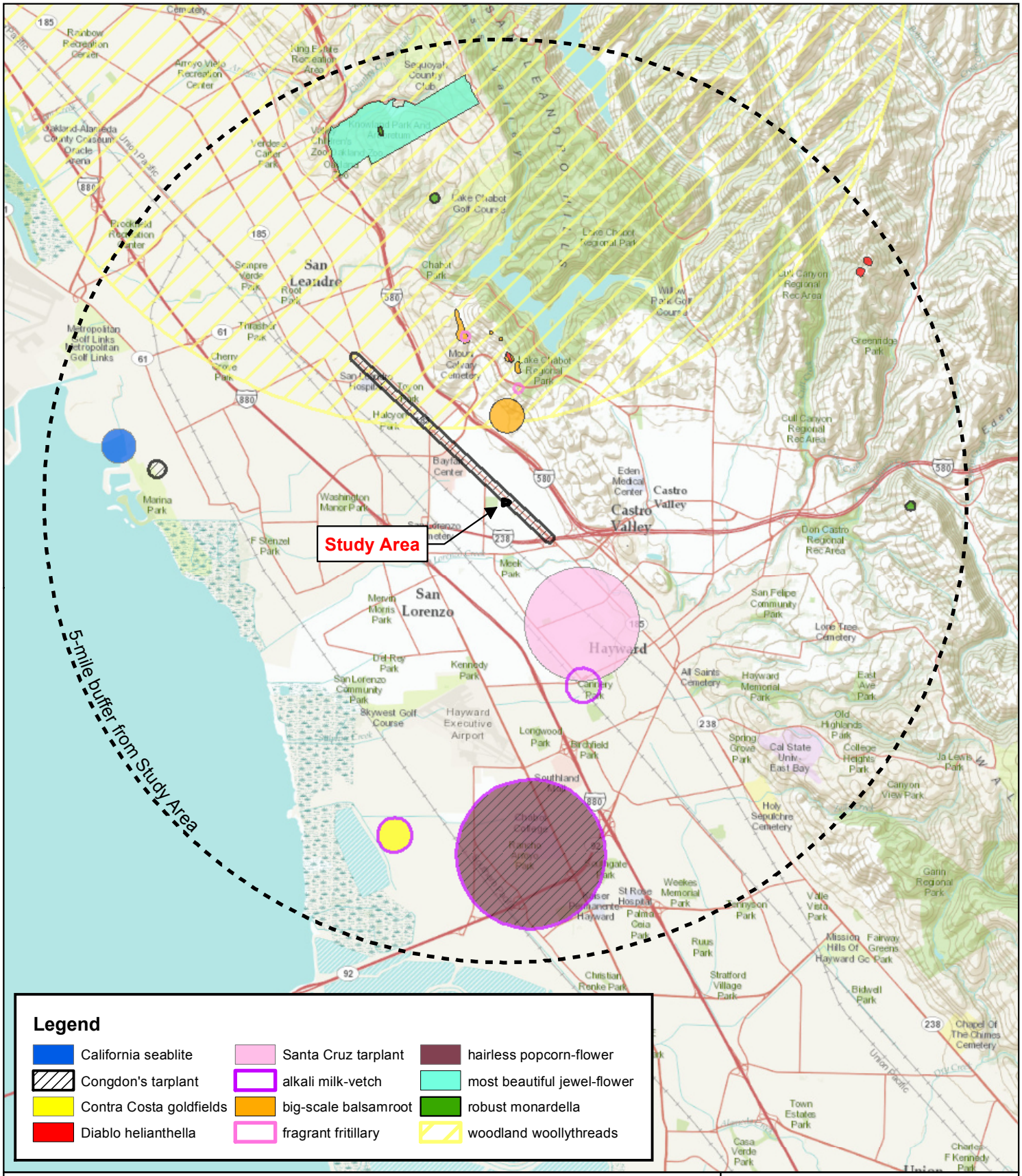


Figure A-3. Special Status Plant Species within 5 miles of the Study Area

N
W E
S

0 0.5 1 2 3
Miles

Ashland Family Apartments
Alameda County, California

wra
ENVIRONMENTAL CONSULTANTS

Date: November 2012
Map By: Derek Chan
Map Source: CNDDB

Path: L:\Acad 2000 Files\22000\22268\GIS\ArcMap\Fig3_CNDDB_Plants_20121102.mxd

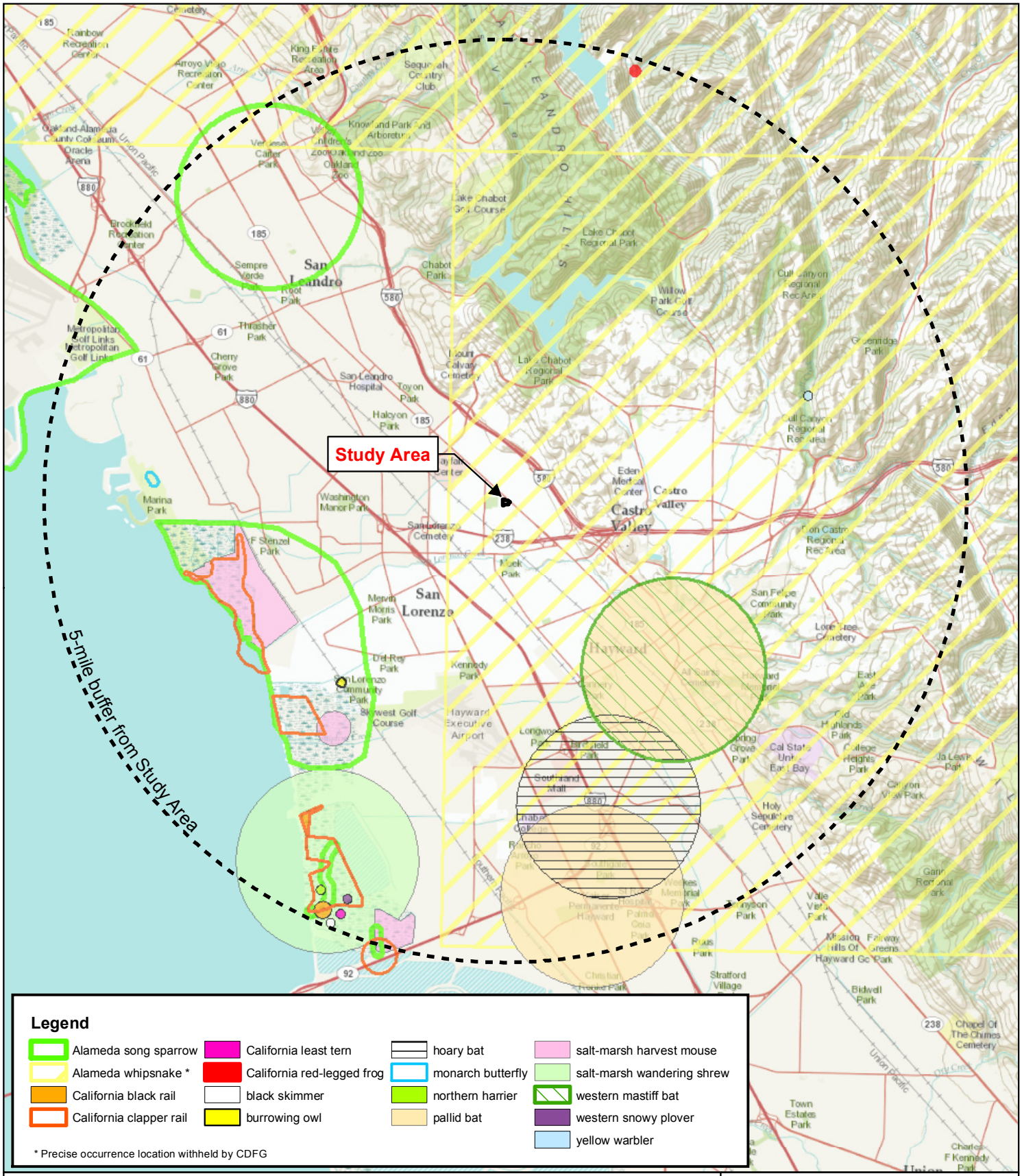


Figure X. Special Status Wildlife Species within 5 miles of the Study Area

N
W E
S

0 0.5 1 2 3
Miles

Ashland Family Apartments
Alameda County, California

wra
ENVIRONMENTAL CONSULTANTS

Date: November 2012
Map By: Derek Chan
Map Source: CNDDB

Path: L:\Acad 2000 Files\22000\22268\GIS\ArcMap\Fig4_CNDDB_Wildlife_20121102.mxd

Attachment B – Observed Plant and Wildlife Species

Table B-1. Plant species observed in the Study Area, November 5, 2012

Family	Scientific name	Common name	Life form	Origin	Rare Status[1]	Invasive Status[2]	Wetland indicator[3]
Araliaceae	*Hedera helix*	English ivy	evergreen vine	non-native	--	high	NL
Arecaceae	*Phoenix canariensis*	date palm	evergreen tree	non-native	--	limited	NL
Asteraceae	*Cirsium vulgare*	bull thistle	perennial forb	non-native	--	moderate	FACU
Asteraceae	*Dittrichia graveolens*	stinkwort	annual forb	non-native	--	moderate	NL
Asteraceae	*Helminthotheca echioides*	bristly ox-tongue	perennial forb	non-native	--	limited	FACU
Asteraceae	*Lactuca serriola*	prickly lettuce	annual forb	non-native	--	assessed	FACU
Bignoniaceae	*Jacaranda mimosifolia*	Jacaranda tree	perennial tree	non-native	--	--	NL
Cactaceae	*Opuntia basilaris*	beavertail prickly pear	evergreen shrub	native	--	--	NL
Chenopodiaceae	*Dysphania multifida*	goosefoot	annual forb	non-native	--	--	NL
Cupressaceae	*Sequoia sempervirens*	coast redwood	evergreen tree	native	--	--	NL
Fabaceae	*Acacia decurrens*	wattle	evergreen tree	non-native	--	--	NL
Fabaceae	*Melilotus albus*	white sweet clover	annual forb	non-native	--	assessed	FACU
Malvaceae	*Malva nicaeensis*	bull mallow	annual forb	non-native	--	--	NL
Myricaceae	*Anagallis arvensis*	scarlet pimpernel	annual forb	non-native	--	--	NL
Oleaceae	*Fraxinus berlandieriana.*	Mexican ash	Deciduous tree	non-native	--	--	NL
Passifloraceae	*Passiflora caerulea*	passionflower	perennial vine	non-native	--	--	NL
Poaceae	*Avena barbata*	slender oat	perennial graminoid	non-native	--	moderate	NL
Poaceae	*Cortaderia jubata*	Pampas grass	perennial graminoid	non-native	--	high	NL
Poaceae	*Bromus diandrus*	ripgut brome	annual graminoid	non-native	--	moderate	NL
Poaceae	*Bromus catharticus*	rescue grass	annual graminoid	non-native	--	--	NL
Poaceae	*Cynodon dactylon*	Bermuda grass	perennial graminoid	non-native	--	moderate	FACU
Poaceae	*Hordeum murinum*	mouse barley	annual graminoid	non-native	--	moderate	FACU
Rosacea	*Pyracantha coccinea*	scarlet firethorn	evergreen shrub	non-native	--	limited	NL
Rosaceae	*Rubus discolor*	Himalaya blackberry	evergreen shrub	non-native	--	high	FACU
Rosaceae	*Rubus ursinus*	California blackberry	evergreen shrub	native	--	--	FACU
Scrophulariaceae	*Myoporum laetum*	lollypop tree	evergreen shrub	non-native	--	moderate	UPL

All species identified using the *Jepson Manual II: Vascular Plants of California* (Baldwin et al. 2012); Nomenclature follows *Jepson Manual II: Vascular Plants of California* (Baldwin et al. 2012)

[1]Rare Status: The CNPS Inventory of Rare and Endangered Plants (CNPS 2012)

[2]Invasive Status: California Invasive Plant Inventory (Cal-IPC 2006)

[3]Wetland Status: National List of Plant Species that Occur in Wetlands, Arid West Region, California (Lichvar and Kartesz 2009)

Table B-2. Wildlife species observed within the Study Area, November 4, 2012.

Scientific name	Common name	Legal Status
BIRDS		
Cathartes aura	turkey vulture	-
Larus californicus	California gull	-
Larus occidentalis	western gull	-
Zenaida macroura	mourning dove	-
Columba livia	rock pigeon	-
Calypte anna	Anna's hummingbird	-
Sayornis nigricans	black phoebe	-
Corvus brachyrhychos	American crow	-
Mimus polyglottos	northern mockingbird	-
Sturnus vulgaris	European starling	None – invasive
Pipilo crissalis	California towhee	-
Carpodacus mexicanus	house finch	-
AMPHIBIANS		
Pseudacris regilla	Pacific chorus frog	-
REPTILES		
Sceloperous occidentalis bocourtii	coast range fence lizard	-

Attachment C – Representative Photographs of the Study Area

Top: View north from south western edge of the Study Area

Bottom: View south from north western edge of the Study Area

Photographs taken November 5, 2011

wra
ENVIRONMENTAL CONSULTANTS

Top: View east from north western edge of the Study Area

Bottom: View west from south eastern edge of the Study Area

Photographs taken November 5, 2011

wra
ENVIRONMENTAL CONSULTANTS

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 HAYWARD (447A) U.S.G.S. 7 1/2 Minute Quad

Database last updated: September 18, 2011
Report Date: September 21, 2012

Listed Species

Invertebrates

Branchinecta lynchi
vernal pool fairy shrimp (T)

Fish

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)

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)

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

Reptiles

Masticophis lateralis euryxanthus
Alameda whipsnake [=striped racer] (T)

Critical habitat, Alameda whipsnake (X)

Birds

Charadrius alexandrinus nivosus
western snowy plover (T)

Pelecanus occidentalis californicus
California brown pelican (E)

Rallus longirostris obsoletus
California clapper rail (E)

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

Mammals

Reithrodontomys raviventris
salt marsh harvest mouse (E)

Plants

Holocarpha macradenia
Santa Cruz tarplant (T)

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

Print table Export entire table to a text file Close window

Results for HAYWARD Quad (37122f61) - 21 elements selected

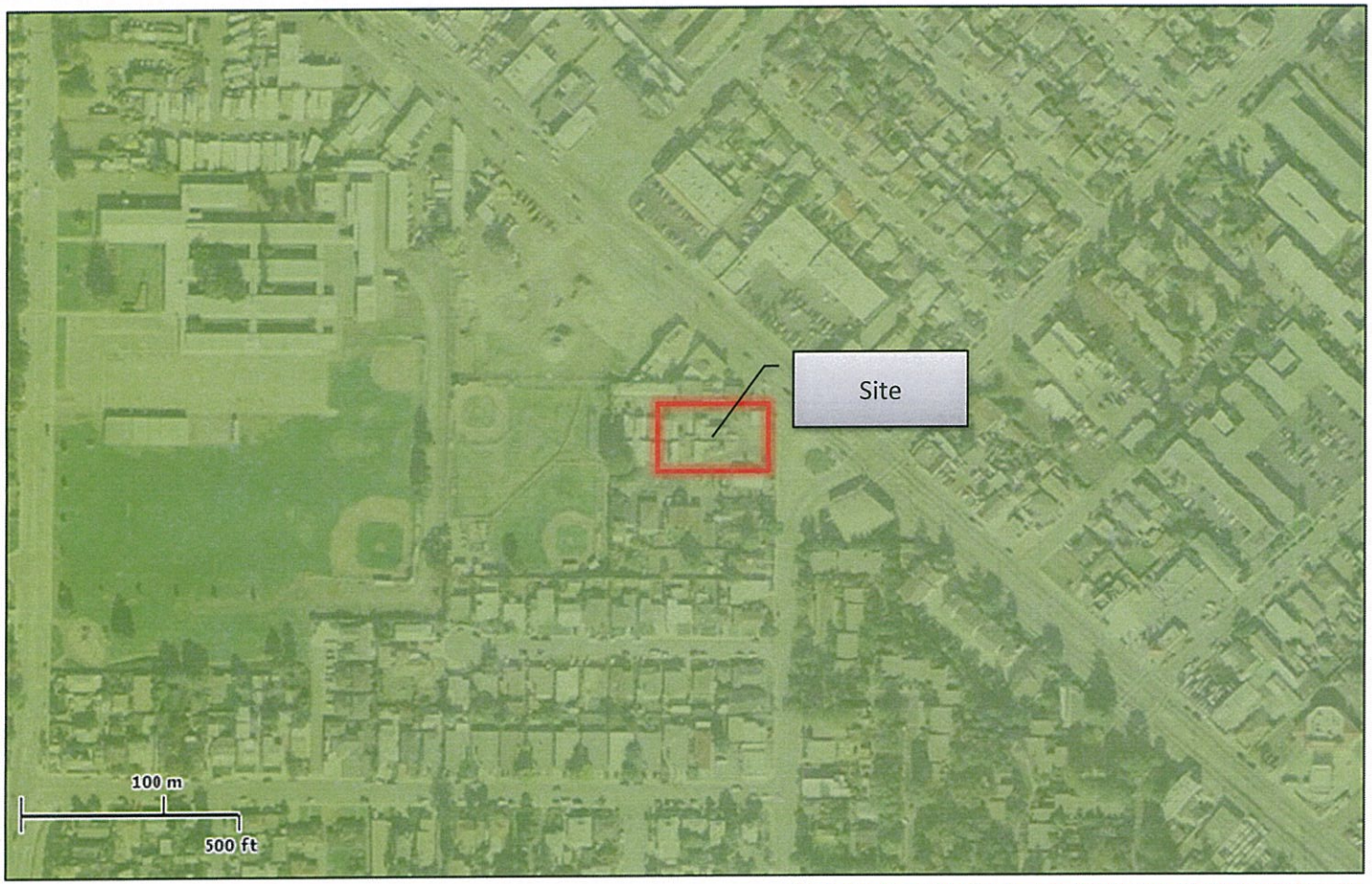
Record	QUADNAME	ELMCODE	SCINAME	COMNAME	FEDSTATUS	CALSTATUS	DFGSTATUS	RAREPLANTRANK
1	Hayward	AAABH01022	Rana draytonii	California red-legged frog	Threatened	None	SSC	
2	Hayward	ABNGA04010	Ardea herodias	great blue heron	None	None		
3	Hayward	ABNKC12020	Accipiter striatus	sharp-shinned hawk	None	None	WL	
4	Hayward	ABNKC22010	Aquila chrysaetos	golden eagle	None	None	FP | WL	
5	Hayward	ABPBX03018	Dendroica petechia brewsteri	yellow warbler	None	None	SSC	
6	Hayward	AMACC05030	Lasiurus cinereus	hoary bat	None	None		
7	Hayward	AMACC10010	Antrozous pallidus	pallid bat	None	None	SSC	
8	Hayward	AMACD02011	Eumops perotis californicus	western mastiff bat	None	None	SSC	
9	Hayward	AMAFF08082	Neotoma fuscipes annectens	San Francisco dusky-footed woodrat	None	None	SSC	
10	Hayward	ARADB21031	Masticophis lateralis euryxanthus	Alameda whipsnake	Threatened	Threatened		
11	Hayward	CTT42110CA	Valley Needlegrass Grassland	Valley Needlegrass Grassland	None	None		
12	Hayward	ILARA47050	Microcina lumi	Lum's micro-blind harvestman	None	None		
13	Hayward	PDAST11061	Balsamorhiza macrolepis	big-scale balsamroot	None	None		1B.2
14	Hayward	PDAST4M020	Helianthella castanea	Diablo helianthella	None	None		1B.2
15	Hayward	PDAST4R0P1	Centromadia parryi ssp. congdonii	Congdon's tarplant	None	None		1B.2
16	Hayward	PDAST4X020	Holocarpha macradenia	Santa Cruz tarplant	Threatened	Endangered		1B.1
17	Hayward	PDAST6G010	Monolopia gracilens	woodland woollythreads	None	None		1B.2
18	Hayward	PDBOR0V0B0	Plagiobothrys glaber	hairless popcornflower	None	None		1A
19	Hayward	PDBRA2G012	Streptanthus albidus ssp. peramoenus	most beautiful jewel-flower	None	None		1B.2
20	Hayward	PDFAB0F8R1	Astragalus tener var. tener	alkali milk-vetch	None	None		1B.2
21	Hayward	PMLIL0V0C0	Fritillaria liliacea	fragrant fritillary	None	None		1B.2

Print table Export entire table to a text file Close window

U.S. Fish and Wildlife Service
National Wetlands Inventory

Ashland Family Apartments

May 3, 2011



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

Status

- Digital
- Scan
- Non-Digital
- No Data

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

MAP SCALE 1" = 500'

250 0 500 1000

FEET

METER

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0278G

FIRM

FLOOD INSURANCE RATE MAP

ALAMEDA COUNTY, CALIFORNIA
AND INCORPORATED AREAS

PANEL 278 OF 725

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
ALAMEDA COUNTY	060001	0278	G
SAN LEANDRO, CITY OF	060013	0278	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
06001C0278G

EFFECTIVE DATE
AUGUST 3, 2009

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Appendix C – Cultural Resources

- **AEM Consulting LLC.** *Historic & Cultural Resources Evaluation, Historic Resources Evaluation for Section 106 Review, Ashland Family Housing.* May 24, 2011.

- **Tom Origer & Associates, Inc.** *A Cultural Resources Survey for theAshland Family Housing Project, San Lorenzo, Alameda County, California.* Rohnert Park, CA : s.n., May 19, 2011.

Tom Origer & Associates
Archaeology / Historical Research

June 30, 2011

Vern Miller
AEM Consulting
5441 Shallows Place East
Santa Rosa, CA 95409

Dear Mr. Miller:

I am writing to inform you that our office was contacted by Ms. Ann Marie Sayers of the Indian Canyon Mutsun Band of Costanoan on June 30, 2011 regarding the Ashland Family Housing Project, San Lorenzo, California. She inquired about the results of the archival records search that our office conducted for the project. She also expressed concern about the general archaeological sensitivity of the area, since the project is located within the vicinity of San Lorenzo Creek. In the event that cultural resources, including human remains, are encountered during construction, Ms. Sayers asked to be notified. She can be contacted at (831) 637-4238.

If you have any questions regarding this communication please feel free to contact me at (707) 584-8200 or via email at eric@origer.com.

Sincerely,

Eric Strother
Senior Associate

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

HISTORIC & CULTURAL RESOURCES EVALUATION

HISTORIC RESOURCES EVALUATION FOR SECTION 106 REVIEW

Ashland Family Apartments

16309-16331 Kent Avenue
San Lorenzo, California 94580

AUGUST 2012

AEM CONSULTING LLC

310 Pacific Heights Drive
Santa Rosa, California 95403
(707) 523-3710

TABLE OF CONTENTS

BACKGROUND **3**

REGULATORY CONTEXT **3**

National Historic Preservation Act *3*

State of California *4*

The California Environmental Quality Act (CEQA) *4*

Public Resources Code (PRC) Section 5020.1 ..... *4*

Public Resources Code Section 5024.1 ..... *4*

Public Resource Code, Section 5097 ..... *5*

Public Resources Code Section 21084.1 ..... *5*

Health and Safety Code, Sections 7050.5 and 7052 ..... *5*

California Native American Historical, Cultural and Sacred Sites Act *5*

Alameda County *5*

The Preservation Ordinance codifies: *6*

PROJECT DESCRIPTION **6**

PROJECT LOCATION **9**

PROJECT LOCATION 10

SITE CONDITIONS/CONTEXT **11**

AREA OF POTENTIAL EFFECTS **14**

CALIFORNIA HISTORIC RESOURCE INFORMATION SYSTEM - RECORDS SEARCH **15**

NATIVE AMERICAN CONTACTS **16**

HISTORIC DISTRICTS **16**

EVALUATION **30**

Archaeology - Field Survey *30*

Architectural Survey *30*

ACCIDENTAL DISCOVERY **33**

CONCLUSION **34**

RECOMMENDED DETERMINATION **34**

Works Cited *34*

BACKGROUND

Resources for Community Development (RCD) proposes to use funding from the U.S. Department of Housing and Urban Development (HUD) as administered by Alameda County to construct an affordable housing project. To secure HUD release of funds for the project, Alameda County must provide a suitable federal Environmental Review Record to HUD prepared according to the requirements of the National Environmental Policy Act (NEPA) and HUD's own Environmental Regulations found in 24 CFR Part 58. The appropriate level of federal environmental review in this case is an Environmental Assessment leading to a Finding of No Significant Impact (FONSI). Both the Environmental Assessment and FONSI must be prepared for signature by the Certifying Officer for Alameda County.

To achieve a FONSI, HUD requires that the Environmental Assessment demonstrate that the project complies with all applicable federal laws and regulations, including Section 106 of the National Historic Preservation Act. Regulations pertaining to Section 106 Review are found in 36 CFR Part 800.

REGULATORY CONTEXT

NATIONAL HISTORIC PRESERVATION ACT

Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to take into account the effects of their undertakings on historic properties. The section 106 process seeks to accommodate historic preservation concerns with the needs of federal undertakings through consultation among the agency official and other interested parties, beginning at the early stages of project planning. The goal of consultation is to identify historic properties potentially affected by the undertaking, assess its effects and seek ways to avoid, minimize or mitigate any adverse effects on historic properties. To evaluate the significance of an historical resource and its integrity, the ability of a property to convey that significance, a building is evaluated according to the National Register Criteria for Evaluation. According to the guidelines of the National Register Criteria for Evaluation, the quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

> A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
>
> B. That are associated with the lives of persons significant in our past; or
>
> C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
>
> D. That has yielded or may be likely to yield, information important in prehistory or history.

Section 106 compliance requires Alameda County to obtain the views of the State Historic Preservation Officer (SHPO) as to whether any of the project activities could have an "adverse effect" to the setting or character-defining features of any historically significant property in the Area of Potential Effects (APE). A historically significant property is one that would be eligible for listing on the National Register of Historic Places, whether it is currently listed or not.

State of California
The California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA), encoded in Sections 21000 et seq of the Public Resources Code (PRC) with Guidelines for implementation codified in the California Code of Regulations (CCR), Title 14, Chapter 3, Sections 15000 et seq., requires state and local public agencies to identify the environmental impacts of proposed discretionary activities or projects, determine if the impacts will be significant, and identify alternatives and mitigation measures that will substantially reduce or eliminate significant impacts to the environment.

CEQA identifies historic resources as those listed in or eligible for listing in the California Register of Historic Resources, based on a range of criteria, such as association with events or patterns of events that have made significant contributions to broad patterns of historical development in the United States or California, including local, regional, or specific cultural patterns (California Register Criterion I). Alternatively, structures which are directly associated with important persons in the history of the state or the country (Criterion 2), which embody the distinctive characteristics of type, period or other aesthetic importance (Criterion 3), or which has the potential to reveal important information about the prehistory or history of the state or the nation (such as archaeological sites) may qualify as a historic resource (Criterion 4). In addition to meeting at least one of the above criteria, the structure must typically be over 50 years old (a state guideline rather than a statutory requirement) and have retained historic integrity sufficient to be clearly evident as a historic resource through a combination of location, design, setting, materials, workmanship, feeling and association with historic patterns. The definition of "integrity" in this context is based on criteria established by the National Register of Historic Places, which include, in basic terms, historical patterns and events (Criterion A), association with important persons in the past (Criterion B) and distinctive characteristics unique to a type, period, style, method of construction, the work of a recognizable master builder, or possessing high artistic value (Criterion C)

The California State Office of Historic Preservation (OHP) is responsible for the administration of federally and State-mandated historic preservation programs under the direction of the State Historic Preservation Office (SHPO) and the State Historical Resources Commission (SHRC). SHPO and SHRC are both housed in the California Department of Parks and Recreation. SHPO reviews and comments on federally sponsored projects pursuant to Section 106 of the National Historic Preservation Act, and State programs and projects pursuant to Sections 5024 and 5024.5 of the Public Resources Code. SHPO also administers the National Register of Historic Places, the California Register of Historical Resources, the California Historical Landmarks, and the California Points of Historical Interest programs.

Public Resources Code (PRC) Section 5020.1

Per PRC Section 50220.1, a “historical resource” includes, but is not limited to, any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic agricultural, educational, social, political, military, or cultural annals of California.

Public Resources Code Section 5024.1

Public Resources Code Section 5024.1 establishes the California Register of Historical Resources (California Register) which lists properties that are to be protected from substantial adverse change. A historical resource may be listed in the California Register if it meets any of the following criteria:

The California Register includes properties that are listed or have been formally determined to be eligible for listing in the NRHP, State Historical Landmarks and eligible Points of Historical Interest. Other resources require nomination for inclusion in the California Register. These may include resources contributing to the significance of a local historic district, individual historical resources, historical resources identified in historic resource surveys conduct-

ed in accordance with SHPO procedures, historic resources or districts designated under a local ordinance consistent with SHRC procedures, and local landmarks or historic properties designated under local ordinance.

Public Resource Code, Section 5097

Section 5097 specifies the procedures to be followed in the event of the unexpected discovery of human remains on nonfederal land. The disposition of Native American burial falls within the jurisdiction of the California Native American Heritage Commission (NAHC). As used in this section, "public lands" means lands owned by, or under the jurisdiction of, the State or any City, County, district, authority or public corporation, or any agency thereof. Consequently, the County of Alameda is required to comply with Public Resource Code Section 5097.5 for its activities on publicly- owned land.

Public Resources Code Section 21084.1

For purposes of this section, an historical resource is a resource listed in, or determined to be eligible for listing in, the California Register. The fact that a resource is not listed in, or determined to be eligible for listing in, the California Register, not included in a local register of historical resources, or not deemed significant pursuant to criteria set forth in Section 5024.1(g), shall not preclude a lead agency from determining whether the resource may be an historical resource for purposes of this section.

Health and Safety Code, Sections 7050.5 and 7052

Section 7050.5 of the Health and Safety Code requires that construction or excavation be stopped in the vicinity of discovered human remains until the coroner can determine whether the remains are those of a Native American. If determined to be Native American, the coroner must contact the California NAHC. Section 7052 states that the disturbance of Native American cemeteries is a felony.

California Native American Historical, Cultural and Sacred Sites Act

The California Native American Historical, Cultural and Sacred Sites Act applies to both State and private lands. The Act requires that upon discovery of human remains, that construction or excavation activity cease and that the county coroner be notified. If the remains are of a Native American, the coroner must notify the NAHC. The Act stipulates the procedures the descendants may follow for treating or disposing of the remains and associated grave goods.

Alameda County

Historic preservation is implemented in the County of Alameda through the enforcement of its Historic Preservation Ordinance of Alameda Count which authorizes the County's Parks Recreation and Historical Commission to function as an advisory body to the Board of Supervisors.

The Alameda County Historic Preservation Ordinance would protect and preserve historic resources in unincorporated Alameda County by formally recognizing such resources and by providing financial incentives for their preservation. The Ordinance would also standardize the review process for development projects that involve or might otherwise affect historic resources. In order to accomplish these goals, the County has proposed an entirely new chapter of the County's Zoning Ordinance (Tile 17), would amend Chapter 2.86 of the County Administrative Code which authorizes and defines the responsibilities of the County's Parks Recreation and Historical Commission, and would also amend Chapter 17.20 of the County's Zoning Ordinance which addresses Historic Preservation (HP) districts.

The County chose to pursue the Ordinance in the wake of a lengthy dispute over the historical significance of a former chicken ranch in Castro Valley. Wanting avoid similar conflicts in the future, the Board of Supervisors re-

quested that the Planning Department and the Alameda County Parks, Recreation and Historical Commission (PRHC) prepare a Historic Preservation Ordinance that among other things would ensure that the County has a consistent, well defined process to use in making determinations of historical significance.

The Preservation Ordinance codifies:

- How the Alameda County Register of Historic Resources is defined and maintained
- How properties can be added to the Register
- How properties be removed from the Register
- Which alterations to historic properties are subject to review
- Which incentives may apply to historic properties

A first draft of the Historic Preservation Ordinance was released in December 2007. In 2008, the PRHC convened several meetings to discuss the draft Ordinance. Many residents were concerned that the December 2007 draft of the Ordinance, did not allow for voluntary participation in the County's proposed Register. In response to these comments, the PRHC met on August 7, 2008 to discuss revisions to the draft Ordinance. At that meeting the PRHC recommended that the draft Ordinance be revised such that participation is voluntary, and that property owners currently listed on the draft Alameda County Register of Historic Resources be given the opportunity to opt out of the registration program within 90 days following the adoption of the Ordinance. Properties not currently listed on the draft Register could only be included on the County Register of Historic Resources with the consent of the property owner. Consistent with these recommendations staff has revised the draft Historic Preservation Ordinance. The Ordinance is not final until it has been approved and adopted by the Board of Supervisors.

Project Description

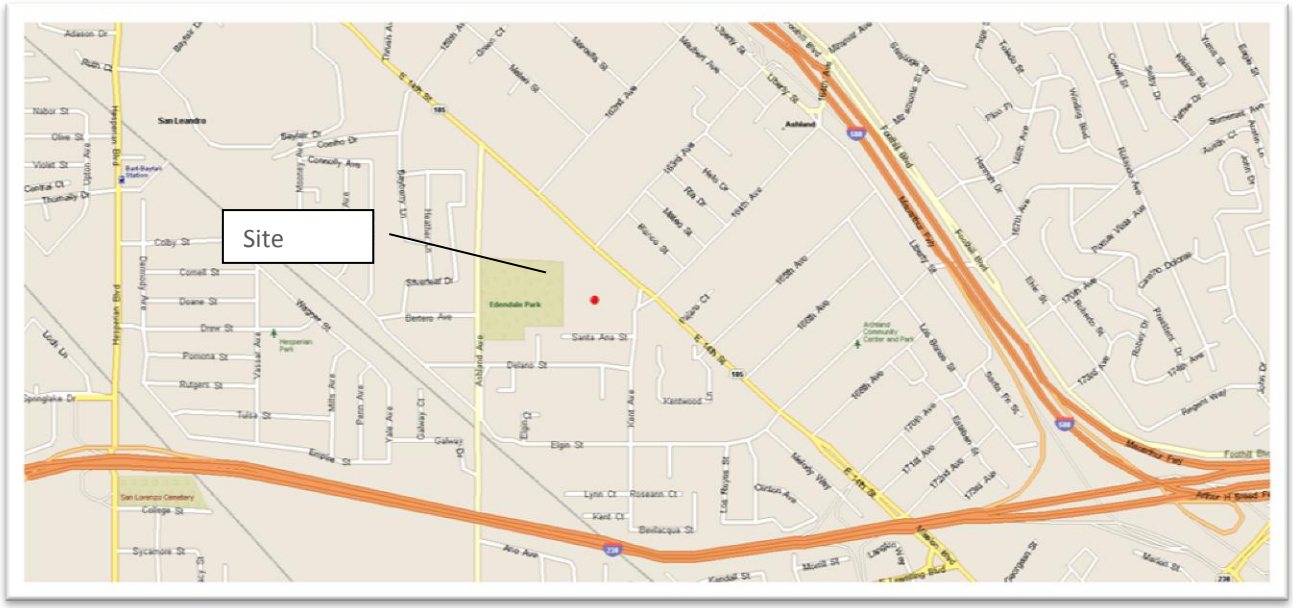
Resources for Community Development (RCD) is developing the Ashland Family Apartments affordable housing project located at 16309 – 16331 Kent Avenue, San Lorenzo, Calif. The project envisions demolition of some existing structures and new construction for 85 affordable rental apartments for families who earn incomes between 30% to 50% of the Area Median Income (AMI) and emancipated foster youth, while contributing to the renaissance of the Ashland-Cherryland business district.

FIGURE 1 CONCEPTUAL SITE PLAN

FIGURE 2 CONCEPTUAL STREET VIEW

PROJECT LOCATION

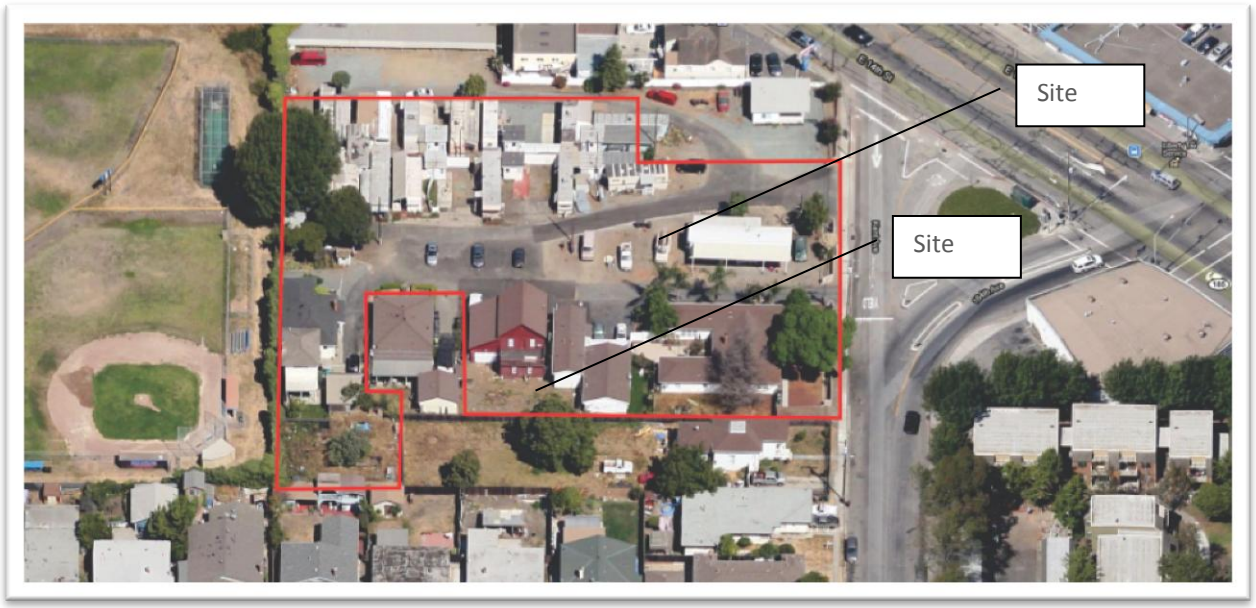
MAP 1 REGION



MAP 2 DETAIL

PROJECT LOCATION

MAP 3 ASSESSOR'S PARCEL MAP



MAP 4 AERIAL VIEW (COURTESY GOOGLE EARTH)

SITE CONDITIONS/CONTEXT

Historical Overview (SIEGEL & STRAIN Architects, APRIL 30, 1998)

PRE COLONIAL PERIOD

The study area is located within the territory of the Chochenyo tribelet of the Costanoan Indians (also known as the Ohlone). Their settlement lisyan was located south of San Lorenzo Creek, possibly within the study area. The exact location is not known, but it may be linked to CA-Ala-6, a Native American village site known to be within the study area along San Lorenzo Creek near the Southern Pacific Railroad (formerly Central · Pacific Railroad) tracks.

MISSION PERIOD

The study area was very likely crossed by the Pedro Fages expedition for Spain in. 1772 and certainly by the Juan Bautista de Anza expedition in 1775-76. During the Spanish Period the area was open grazing land of the Mission San Jose, established in 1797 in Fremont. El Camino Real Del Norte, the major north-south road of the Mission Period, followed roughly de Anza's trail, very nearly the same route as today's East 14th Street/Mission Boulevard.

An adobe house, the San Leandro Indian Adobe Rancheria, dating to 1837, was built in the study area by an administrator of Mission San Jose, Jose de Jesus Vallejo. The house was located "on top of the small hill 200 feet west of Foothill Boulevard between 155th and 159th Streets".

RANCHO PERIOD

In 1821 Mexico declared its independence from Spain and took possession of California. The missions were secularized and their huge land holdings were divided into large Ranchos granted to military men as a reward for service. San Lorenzo Creek formed the border between two large ranchos: Rancho San Leandro, granted to Don Jose Joaquin Estudillo in 1842, on the north and the Rancho San Lorenzo of Francisco Soto (brother in law of Guillermo Castro) on the south. During this period the study area remained open grazing land for cattle with some grain cultivation: wheat for flour, oats for hay, and barley for livestock feed.

AMERICAN PERIOD

California became a United States territory in 1846 after the Mexican-American War and was granted statehood in 1850. The discovery of gold in 1849 in the foothills of the Sierra led to a sudden population explosion and demand for food which led to the establishment of large grain growing farms as well as fruit and vegetable farms around San Francisco Bay. In 1851 a group of Anglos squatted along the fertile banks of San Lorenzo Creek. The settlement named "Squattersville" developed on the northern *side* of the creek in the Four Corners area. The squatters began growing *crops* and as early as 1853 grain, fruit, and vegetables were shipped from Robert's Landing at the mouth of San Lorenzo Creek to markets in San Francisco. The San Lorenzo Pos.t Office opened in 1854 in the Four Corners area on what is today Lewelling Boulevard.

Two of the early settlers, John Lewelling and William Meek brought *some* of the first fruit trees to the area and established large nurseries and orchards. They had extensive land holdings within the study area and built large residences here ca. 1870, Meek on the south side of San Lorenzo Creek and Lewelling on the north. The Meek mansion still stands on Hampton Road. In 1864 the San Lorenzo Pioneer cemetery, still extant in the Four Corners area, was established on land belonging to Meek and Lewelling. Interment records of the cemetery attest to the cultural mix of a largely immigrant population which has continued' through the present.

Railroad

By 1S65 the "San Francisco, Alameda, and Hayward's Railroad" ran through the Meek orchards. *This* railroad was absorbed in 1869 by the transcontinental Central Pacific Railroad, with San Lorenzo Station located just north of the Pioneer Cemetery. The South Pacific Coast Railroad (1878) ran along the east shore of the bay. By 1910 a third transcontinental railroad, the Western Pacific, would run through the study area parallel and east of the Central Pacific Railroad. Beginning in 1885 refrigerated railroad cars moved perishable fruit grown in the area to markets across the country. This fueled a boom in local fruit production that continued for decades.

Interurban Railroad

During the 1880s and 1890s interurban rail transportation improved. Construction of the "Oakland, San Leandro, and Hayward Electric Railway" began in 1891. By 1892, 14.3 miles of track ran along the County Road (today's East 14th Street / Mission Boulevard) *Preliminary Cultural Resources Survey: Ashland & Cherry/and* 5 between Hayward and Oakland. Cars ran every half hour from 5 a.m. until midnight daily. Side-feeder lines ran from Ashland Junction (near 150th St. and Mission Boulevard) along Telegraph (today's Hesperian Boulevard) and along Ashland Avenue to Lewelling Boulevard. Farmlands and orchards were subdivided into town lots of about one acre each. New communities including Ashland and Hayward's Park Homestead developed along the line.

San Lorenzo Grove, an eight acre natural park, entered on 2nd St. (today's Tracy St.) in the Four Corners area, became a popular destination for day trips. The park, owned by the electric car line company, included a dance pavilion, picnic grounds, playing fields, concession area and an outdoor bandstand. The park operated until 1917 when it was converted to an apricot orchard.

Automobile Era

The first automobiles appeared in the Bay Area in the late 1890s, and became common after 1910. East 14th Street/Mission Boulevard (then called County Road) was the major north-south road in the East Bay. In 1923 the California legislature passed the gasoline tax, which guaranteed funds for building and maintaining streets and roads. Also in the early 1920s a large area of the Meek orchard was subdivided. An advertisement published in 1923 by the H. W. Meek Estate (Incorporated) offered various real estate options including: 1) "Orchard Home Sites- right on the car line ... or one block off the car line ... "; 2) "Pear Orchard Pieces - For suburban homes, with full grown trees right in their prime. (The best paying orchard in the Meek Estate)... "; or 3) "Poultry Farm Pieces- with city water, sewers and new turnpike gravel roads within 10 minutes of the car line ... "; and 4) "Poultry, Squab and Pigeon Farms- With city water and sewers. Big enough for 1000 hens or 4000 pigeons ... ". " All of the above properties have city water and city sewers ... Street Cars all close by. Wonderful water level for wells ..."

Both elaborate homes and modest bungalows were built on mostly half acre sites of what had been Meek's orchards. However, the area retained a strong agricultural character until after the Second World War. Many properties still have tank houses suggesting irrigation. of once large vegetable gardens or small orchards. Some poultry sheds and small barns remain.

Second World War

World War II brought a large number of new people to Alameda County and immediately after the war large scale housing subdivisions replaced most of the remaining tracts of farm land. Only the most intensive agricultural use of the land, nurseries and greenhouses, survived in the area and their numbers have been greatly reduced. While

pre-World War II residential development tended to be houses that differed from one another in size, materials, and architectural style, *post*-World War II residential development can be characterized as large areas densely developed with nearly identical houses on small lots. The post war residential developments are for the most part dependent on the automobile for access to stores, services and employment.

The Nimitz Freeway (Interstate 880) west of the project area opened in the late 1950s. The Route 238 freeway was run through the middle of the study area north of Lewelling Boulevard in the 1960s. This had the greatest effect on the Ashland neighborhood. Today the project area is for the most part densely developed suburban residential neighborhoods with automobile accessed commercial strips along East 14th Street/Mission Boulevard, Lewelling Boulevard, Foothill Boulevard and to some extent Meekland Avenue.

UNINCORPORATED ASHLAND

Ashland, formerly San Leandro South, is a census designated place in Alameda County, California. The population was 20,793 at the 2000 census. Ashland has a total area of 1.8 square miles, all of it land. Alameda County occupies most of the East Bay region of the San Francisco Bay Area. The unincorporated communities in Alameda County are governed directly by the county. Alameda County has six major unincorporated communities that qualify as census designated places, including Ashland, Cherryland and San Lorenzo. Together, Ashland and Cherryland comprise one of the most urbanized areas of the unincorporated portion of Alameda County, with a combined total population of approximately 38,000. (Alameda County Planning Department, Adopted by the Alameda County Board of Supervisors June 1, 1995) The two communities are within an equal commute to many of the employment centers of the bay area, both by freeway and transit. The project site is located roughly three miles from the San Francisco Bay shoreline, the city of Hayward and San Leandro. Across the bay, San Francisco lies approximately 17 miles to the west.

The Ashland/Cherryland area is the target of a specific plan for revitalization of the area. Many of the economic and development opportunities that exist for this central portion of the County have remained unfulfilled and the quality of life in the residential areas has been eroded by insensitive development and by the freeways and highways that have been built and widened to move traffic through the area to more remote and easily developed places.

The unincorporated community of Ashland occupies the triangular-shaped area bounded by Hesperian/ Bayfair on the west, San Lorenzo Creek on the south, and I-580 on the east. Ashland was once a major truck farm and greenhouse area, although little of its agricultural past is evident today. The community is mostly residential, with homes ranging from century-old cottages to recent subdivisions. Some of the housing consists of 1950s-era tracts similar to those in San Lorenzo and Washington Manor. However, other parts of the area were developed to County standards, with large lots, narrow streets, and no sidewalks or curbs.

The area appears to be a patchwork of older and newer development, sometimes with little continuity from one block to the next. Some of the older housing is in poor condition and is in need of rehabilitation. Ashland also has several large pockets of higher density housing. Two and three-story apartment blocks, many dating from the 1960s, are located east of East 14th Street between 159th and 165th Avenues. Pockets of higher density housing also exist along Ashland Avenue and San Lorenzo Creek. The quality of this housing is extremely variable. The City of San Leandro is particularly interested in County programs that improve blighted residential properties in Ashland and address the safety and security issues that have arisen at some of these properties.

Commercial uses in Ashland are generally located along East 14th Street and Lewelling Boulevard. The East 14th "strip" includes a large number of car dealerships and auto service uses, while Lewelling contains a mix of retail, service, office, and residential uses. Some of the commercial properties are vacant or underutilized and have been identified by the County as candidates for redevelopment. The Ashland area includes San Lorenzo High School, a handful of elementary schools, parks and public uses, and a few light industrial uses along the Union Pacific railroad.

Ashland also includes the original townsite of San Lorenzo, located to the northeast of Lewelling and Hesperian Boulevards. Although little remains of the old town, there are a number of homes dating from around 1900 as well as a historic cemetery and church. Preservation of these resources and additional recognition of their historic significance would be desirable and would complement San Leandro's own historic preservation efforts.

Long-range plans for Ashland call for revitalization of the East 14th and Lewelling business districts, rehabilitation of substandard housing, and streetscape improvements along major thoroughfares. Major increases in population are not expected. ABAG projects that Ashland will add about 290 households during the next 20 years (about a four percent increase). Most of this development will occur as infill on underutilized sites. No major changes in land use patterns are expected, although more intensive use of property along East 14th Street may occur.

The County's land use plan designates the two-mile East 14th Corridor southeast of Bayfair as "General Commercial or Medium/High Density Residential". This is the County's equivalent to San Leandro's "Corridor Mixed Use" designation. It allows either residential, commercial, or mixed use development, with densities of up to about 40 units per acre. The Ashland-Cherryland Business District Specific Plan includes further standards for how this corridor should be developed and includes an action plan to finance and build specific public improvements. The Ashland Business District is also contained in a Joint City-County Redevelopment Project area that extends into San Leandro along East 14th Street.

Site Specific Characteristics

The subject property is comprised of three contiguous parcels at the corner of East 14th Street (State Route 185) and Kent Avenue. All three parcels are improved and fully developed. One parcel is a mobile home park; the other two are single family residences. Together, the parcels total 1.89 acres. To the north of the subject property across East 14th Street are commercial uses; south are single family homes; to the east lies Kent Avenue; and Edendale Park to the west. Edendale Park is the ball field for Edendale Middle School which lies west of the Park.

Area of Potential Effects

The Area of Potential Effects (APE) includes the subject parcels (APE #1, 2 and 3) and 15 of the surrounding and facing properties, or 18 properties in all. The APE Map shows all in greater detail. Results of an eligibility evaluation of the APE Properties are in the immediate adjacent area of the subject properties. The APE is summarized on Table 1.

MAP 5 AREA OF POTENTIAL EFFECTS

CALIFORNIA HISTORIC RESOURCE INFORMATION SYSTEM - RECORDS SEARCH

Archival research included examination of the library and project files at Tom Origer & Associates. A review (NWIC File No. 10-1110) was completed of the archaeological site base maps and records, survey reports, and other materials on file at the Northwest Information Center (NWIC), Sonoma State University, Rohnert Park. Sources of information included but were not limited to the current listings of properties on the National Register of Historic Places (National Register), California Historical Landmarks, California Register of Historical Resources (California Register), and California Points of Historical Interest as listed in the Office of Historic Preservation's Historic Property Directory (OHP 2011). The Office of Historic Preservation has determined that structures in excess of 45 years of age should be considered potentially important historical resources, and former building and structure locations could be potentially important historic archaeological sites. Archival research included an examination of historical maps to gain insight into the nature and extent of historical development in the general vicinity, and especially within the study area. Maps ranged from hand-drawn maps of the 1800s (e.g., GLO) to topographic maps issued by the United States Army Corps of Engineers and United States Geological Survey (USGS). In addition, ethnographic literature that describes appropriate Native American groups, county histories, and other primary and secondary sources were reviewed.

ARCHIVAL STUDY RESULTS

Archival research found that there had been no previous archaeological survey of the project area. There are several known resources within a one-mile radius. One resource is recorded within the project area. This resource is a late-19th century barn recorded by Carey & Company in 2008. Documentation for the barn is included as Appendix B. At that time, the barn was considered significant at the local level.

There are no reported ethnographic sites within or near the project area (Kroeber 1925; Levy 1985:485). Review of historical maps found no evidence of buildings or structures on the project parcels (Higley 1857; Thompson & West 1878; USGS 1896, 1914, 1915, 1950). Based on the results of the prefield research, it was anticipated that prehistoric and, to a lesser degree, historical resources could be found within the study area. Prehistoric archaeological site indicators expected to be found in the region include but are not limited to: obsidian and chert flakes and chipped stone tools; grinding and mashing implements such as slabs and hand stones, and mortars and pestles; and locally darkened midden soils containing some of the previously listed items plus fragments of bone, shellfish, and fire affected stones. Historical site indicators generally include buildings and structures, fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, and dumps).

Native American Contacts

The Native American Heritage Commission (Attached Source (Pilas-Treadway, May 5, 2011)) was contacted regarding sacred lands on or near the project vicinity. The Native American Heritage Commission replied on May 5, 2011 that a records search failed to indicate the presence of Native American cultural resources in the immediate project area. A list of tribal contacts was provided by the Commission and subsequently, a letter was sent to each contact regarding the project and requesting information from their respective communities regarding sacred lands or other cultural sites within the study area that might be impacted by project activities. Copies of the Native American contact letters are attached. To date, no responses have been received.

Historic Districts

There are no listed Historic Districts near the vicinity of the Area of Potential Effects.

TABLE 1 SUMMARY OF AREA OF POTENTIAL EFFECTS PROPERTIES – ASHLAND FAMILY APARTMENTS, 16309-16331 KENT AVENUE, SAN LORENZO, CALIFORNIA 94580

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#1	080C-0479-023-02	(Subject Property) 16309 Kent Avenue, San Lorenzo, CA 94580-8301	Thomas Eplin	Mobile Home Park (9100)	1948	6Y	16 mobile homes on site	 View from Street

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
	080C-0479-022	(Subject Property) 16331 Kent Avenue San Lorenzo, CA 94580-1228	Thomas Eplin	Two three or four single family (2100)	1947	6Y		 Home on the site

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#2	080C-0479-022	(Subject Property) 16331 Kent Avenue San Lorenzo, CA 94580-1228	Thomas Eplin	Barn on the site converted to a residence above and utility/storage room on first floor.		5S1 (Individual property that is listed or designated locally.)	Lost integrity as significant resource	
#3	080C-0479-023-01	(Subject Property) 16325 Kent Avenue San Lorenzo, CA 94580-1228	Thomas Eplin	Single family residential home (1100)	1958-59	6Y		

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#4	080C-0483-001	16160 Ashland Avenue San Lorenzo, CA 94580-1116	San Lorenzo Unified School District	Exempt public agency (0300)	N/A	N/A	Edendale Park	
#5	080C-0479-013	1084 Santa Ana Street San Lorenzo, CA 94580-1243	Rolando M & Maria C Quibol	Single family residential home (1100)	1950	6Y		

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#6	080C-0479-014	1098 Santa Ana Street San Lorenzo, CA 94580-1243	Erica A Comerford	Single family residential home (1100)	1950	6Y		
#7	080C-0479-015	1116 Santa Ana Street San Lorenzo, CA 94580-1243	Lena M Guerri	Single family residential home (1100)	1950	6Y		

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#8	080C-0479-021	16327 Kent Avenue San Lorenzo, CA 94580-1228	May L Joe	Single family residential home (1100)	1949	6Y		
#9	080C-0479-020	16341 Kent Avenue San Lorenzo, CA 94580-1228	Walter Mann Jr.	Single family residential home (1100)	1900			

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#10	080B-0300-002-05	1300 Kentwood Lane San Leandro, CA 94578-2372	Ashland Village Apartments	Multiple residential building (7700)	1984	6Y	142 Apartments Less than 50 years old	
#11	080B-0300-001-02	16407 E 14th Street San Leandro, CA 94578	E & Ferrari C J Pestana Jr	One story store (3100)	1955	6Y		 Front of store

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
								Rear of store

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#12	080-0064-013-05	16384 E 14th Street San Leandro, CA 94578-3110	Danilo D Dondriano	One story store (3100)	1965	6Y		
#13	080-0064-014	16378 E 14th Street San Leandro, CA 94578-5120	McEuen Family Partnership	One to five story office building (9400)	1958	6Y	6 commercial units	

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#14	080-0064-015-03	16338 E 14th Street San Leandro, CA 94578-3100	Thomas M Eplin	Commercial re-pair garage (8100)	1960	6Y		
#15	080C-0479-007	16375 E 14th Street San Leandro, CA 94578-3109	Abdul & Hanifa Gaphoor	Single family residence home with SL (1300)	1930	6Y		

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#16	080C-0479-006-09	16349 E 14th Street San Leandro, CA 94578-3109	County of Alameda	Commercial re-pair garage (8100)	1910	6Y		
#17	080C-0479-006-08	16343 E 14th Street San Lorenzo, CA 94580	County of Alameda	One story store (3100)	1964	6Y		

APE #	APN	Address	Owner	Land Use	Year built	Suggested NRHP Eligibility Status Code	Comments	Photo
#18	080C-0479-006-20	16305 E 14th Street San Leandro, CA 94578-3109	County of Alameda	Exempt public agency (0300)	N/A	6Y	Vacant	

*Note: 6Y denotes the property has not been evaluated for the National Register the California Register or Local Listing.

EVALUATION

Tom Origer & Associates conducted a cultural resources survey for the Ashland Family Housing project in San Lorenzo, Alameda County, California. The project location consists of three contiguous parcels (APNs 080C-0479-022-00, 080C-0479-023-01, and 080C-0479-023-02) totaling about 1.89 acres. The study was designed to meet the requirements of Section 106 of the National Historic Preservation Act. Pursuant to Section 106, this study included contact with the Native American Heritage Commission and local Native American groups, archival research at the Northwest Information Center, Rohnert Park (NWIC 10-1110), examination of the library and files of Tom Origer & Associates, field survey of the project parcel, and an examination of buildings on parcels adjoining the project location. Documentation pertaining to this study is on file at the offices of Tom Origer & Associates (File No. 11-26S).

Houses on parcels along Santa Ana Street could be contributors to an historic district but further research would be needed to define the district and determine its National Register status. The proposed project would not have adverse effects on any potential district on Santa Ana Street.

With the separation of the proposed project from the structures with a parking lot, coupled with the landscape design that shields these properties from the project, the effect on the properties will not be adverse over current conditions. The criteria under which these two structures are listed as local historic resources – Architecture – will not be adversely affected by the project.

ARCHAEOLOGY - FIELD SURVEY

An archaeological field survey of the project parcels was completed by Tom Origer & Associates on May 9, 2011 (Attached Source (Beard, May 19, 2011)). All three subject parcels are developed and improved. No prehistoric or historical archaeological sites were identified within the study area and no resource-specific recommendations are warranted.

ARCHITECTURAL SURVEY

In addition to the field survey, Origer prepared an evaluation of the architectural elements (Built Environment) for the project Area of Potential Effects.

APE # 1 (Subject parcel) located at 16309 Kent Avenue, San Lorenzo, CA (APN 080C-0479-023-02) is the largest of the three project parcels and contains a mobile home park. Buildings on this parcel included two flat-roofed utility sheds and a small, flat roofed residence. All are wood framed and clad with stucco. These buildings were constructed in 1948. There are 16 mobile homes are located on the site.

APE # 2 (Subject parcel) located at 16331 Kent Avenue, San Lorenzo, CA (APN 080C-0479-022-00) contains a one-story, H-shaped residence that fronts on Kent Avenue. The house was constructed in 1947. It has a hipped roof and is a frame structure clad in stucco. The front of the house has a slightly recessed stoop that runs between the two side wings and is sheltered by the principal roof. Windows are primarily one-over-one, double-hung, wood sashes. There is one porthole-style window at the front. At the rear of the house are a garage/shed, a manufactured home, and a late 19th century barn.

The barn sits on a large parcel surrounded by residential development, including mobile homes and multi-family dwellings. The two-story structure has rectangular plan with a saltbox roof formed by a one-story addition on the west elevation that continues the pitch of the barn's main gable roof. Wood horizontal boards clad the barn, and the eaves overhang. The façade faces north and has two entrances at the first story, three smaller rectangular openings at the second story, and an arched opening in the gable, each with diagonal wood doors. Similar open-

ings are located throughout the building. (The description is based on a photograph taken in 1997 as part of the "Preliminary Cultural Resources Survey: Ashland & Cherryland Districts, San Lorenzo, Alameda County, California" conducted by Stiegel & Strain, Architects.

According to Carey & Co., Inc. (Carey & Co., March 2008.), the building appears to be locally significant as an intact barn that retains a good level of integrity in San Lorenzo. It may have been constructed around 1890 and reflects the town's early agricultural heritage. In the 1850s, American settlers were attracted to San Lorenzo's excellent soil and weather that allowed crops to be grown year round. Farmers initially cultivated potatoes, sugar beets, barley, and wheat among other crops, and traveled to Robert's Landing to ship their produce and grains on boats bound for San Francisco.

Early settlers, such as John Lewelling and William Meek, brought fruit trees to San Lorenzo, and cherries, pears, plums, and apricots became popular among farmers. Railroads and refrigerated cars allowed produced to be shipped even greater distances, and San Lorenzo became one of California's largest producers of farm crops. In 1878, the South Pacific Railway Company built a railroad line connecting San Lorenzo with Santa Cruz to the south and Oakland to the north, and farmers began shipping their produce by rail.

By 1898, San Lorenzo farmers shipped more fruit by rail from the San Lorenzo station than any other station in California Archival research did not reveal much information on the barn, and its original use and owners are unknown. However, based on the barn's form and height, it is possible that animals and machinery were stored on the ground level, and hay or other grains were stored on the upper story. Carey was unable to obtain site access at the time of their survey and thus they were limited in their evaluation.

In May 2011 the barn was re-evaluated by Origer & Associates. Origer notes the two-story barn has been converted to a residence on the second floor and a utility/storage room on the first floor. The conversion resulted in significant alterations, including installation of modern windows and doors, walling off of barn doors and other openings, and installation of an overhead door. Origer concludes, the barn lacks sufficient integrity of design, materials, workmanship, setting, or feeling to be considered eligible for inclusion on the National Register or the California Register. None of the other buildings on the subject parcels appear eligible for the National Register or the California Register.

APE # 3 (Subject parcel) located at 16325 Kent Avenue San Lorenzo, CA (APN 080C-0479-023-01) is a land-locked, L-shaped parcel that contains a 1958-59 dwelling. This house is a one-story, hipped-roof frame structure clad in stucco. Windows appear to be original, aluminum sashes in a variety of configurations.

Adjacent Parcels.

The project area is adjacent to 15 parcels. A park and a vacant parcel are north and northeast of the project area, respectively. Parcels along the west side are single-family dwellings built during the early to mid-20th century. South of the project area, is a large apartment complex constructed in 1984, and a retail market built in 1955. Buildings along the west side of the project area face East 14th Street, away from the project area, and were built between 1910 and 1964. Two are commercial properties and one is a house that has been converted to an office. Buildings older than 50 years are addressed below.

Addresses 1084, 1098 and 1116 Santa Ana Street (APE #5, 6 & 7, respectively) were all built in 1950. The 1950 housing development, which lies west of the project area, fronts on Santa Ana Street. These are modest, post-war homes that, as individual properties, are unlikely to meet National Register eligibility criteria. There is potential for

a historic district to be established along Santa Ana Street. (APNs 080C-0479-013, 080C-0479-014 and 080C-0479-015)

At address 16327 Kent Avenue is APE # 8 (APN 080C-0479-021), a two-bedroom, one bath home built in 1949 of average quality and rectangular design. Although in good condition for its age, the structure does not appear to be remarkable, a superior example, or associated with significant people or events in our past.

APE # 9 located at 16341 Kent Avenue, San Lorenzo, CA 94580-1228 (APN 080C-0479-020) contains a one-story, Queen Anne house constructed at the turn of the 20th century. The house is of sufficient age and architectural interest to be considered for inclusion on the National Register. The house has a hipped roof with a front-facing, gabled wing that features a cutaway bay. The porch has turned posts for support and spindle decoration along the top. The roof/wall junction is marked by decorative dentils. This house has excellent integrity of design, materials, and workmanship. Development in this area has impacted the historical setting. It is immediately adjacent to the planned project. This early-20th century home has excellent integrity in terms of design, materials, and workmanship, but the setting has already been altered so severely that the planned project will not further detract from the building's ability to meet National Register criteria.

Ashland Village Apartments occupies APN 080B-0300-002-05 which lies across Kent Avenue from the site (APE #10) at address 1300 Kentwood Lane, San Leandro, CA 94578-2372. The Ashland Village Apartments was built in 1984 and contains 142 residential units. Due to age (less than 50 years old) the apartment complex does not appear eligible for the National Register.

APE #11, is a one-story store at address 16407 E 14th Street, San Leandro, CA. Currently a small ethnic market, this store was built in 1955 (APN 080B-0300-001-02). The structure does not appear to be remarkable, a superior example, or associated with significant people or events in our past. It appears typical of design and quality for one-story markets and stores built in the 1950s.

At address 16384 E 14th Street, San Leandro, CA, is another one-story store built in 1965. This store (APN 080-0064-013-05, APE # 12) is sited on a corner lot and has a concrete foundation with wood siding, and tar and gravel roof. It appears unremarkable, although in fair condition for its age. This is a common design for stores of this period, with flat roofs and rectangular design. Stores of this type, with no architectural distinction, are unlikely to meet National Register eligibility criteria.

APE # 13(APN 080-0064-014 at address 16378 East 14th Street, San Leandro, CA 94578-5120 is a two-story commercial building comprised of six units, and built in 1958. Although in good condition for its age, the structure does not appear to be remarkable, a superior example, or associated with significant people or events in our past.

APE # 14 located at 16338 East 14th Street, San Leandro, CA (APN 080-0064-015-03) is a one-story commercial repair garage constructed of masonry, and built in 1960. Although in good condition for its age, the structure does not appear to be remarkable, a superior example, or associated with significant people or events in our past.

APE# 15 located at 16375 E 14th Street, San Leandro, CA (APN 080C-0479-007) has a 1930s vernacular house that has been converted to an office. The house is a one-story, cross-gabled, frame building clad with stucco. This is a common house type with no architectural distinction and it is unlikely that this house would meet National Register eligibility criteria.

APE# 16 located at 16349 E 14th Street, San Leandro, CA (APN 080C-0479-006-09) contains a 1910 commercial building used by a glass tinting company. This building has a shed roof and the facade is a parapetted false front.

The building is a wood frame construction clad primarily with corrugated metal panels. Changes over the years have been piecemeal and leave the building with a challenging appearance. This highly modified structure makes it is unlikely that this building would meet National Register eligibility criteria.

APE # 17 located at 16343 East 14th Street, San Leandro, CA (APN 080C-0479-006-08) is a one-story commercial store built in 1964 and remodeled in 1980. Although in fair condition, the structure is less than 50 years old and also does not appear to be remarkable, a superior example, or associated with significant people or events in our past.

ACCIDENTAL DISCOVERY

There is the possibility that buried archaeological materials could be found. If buried materials are encountered, all soil disturbing work should be halted at the location of any discovery until a qualified archaeologist completes a significance evaluation of the find(s) pursuant to Section 106 of the National Historic Preservation Act (36CFR60.4). Prehistoric archaeological site indicators expected within the general area include: chipped chert and obsidian tools and tool manufacture waste flakes; grinding and hammering implements that look like fist-size, river-tumbled stones; and for some rare sites, locally darkened soil that generally contains abundant archaeological specimens. Historical remains expected in the general area commonly include items of ceramic, glass, and metal. Features that might be present include structure remains (e.g., cabins or their foundations) and pits containing historical artifacts.

If buried materials are encountered, all soil disturbing work should be halted at the location of any discovery until a qualified archaeologist completes a significance evaluation of the find(s) pursuant to Section 106 of the National Historic Preservation Act (36CFR60.4). The following mitigations to be made part of the final Environmental Assessment.

1. If during project construction activities previously unidentified archeological resources are discovered, all project activities in the immediate vicinity of the discovery would be halted and the procedures of 36 CFR Part 800.13(b) and (c) would be followed. [Paragraph I.A. Inadvertent Archeological Resource Discovery]
2. Upon discovery of Native American human remains and associated or unassociated funerary objects, the City shall treat them in accordance with provisions of California Public Resources Code Section 5097.94, 5097.98, and 5097.99 and the California Health and Safety Code Section 7050.5 or as provided in federal implementing regulations found in 36 CFR 800.13(b)(2). [Paragraph I.B. Treatment of Native American human remains and cultural properties]
3. For any archaeological resources discovered during the excavation and construction phase, all project activities in the immediate vicinity of the discovery would halt. Procedures of 36 CFR Part 800.13(b) and (c); PRC Sections 5097.94, 5097.98 and 5097.99; and the California Health and Safety Code Section 7050.5 would be followed, including calling an archaeologist or paleontologist to evaluate the materials.
4. If paleontological resources were found during site excavation and construction, work would be halted until a paleontologist could evaluate the nature and significance of the resources. If significant resources were confirmed, the OHP and the California Department of State Parks would be contacted for further guidance on documentation and preservation. Protocol for the discovery of paleontological resources during construction would be the same as that for archaeological resources: project activities in the immediate vicinity of the discovery would halt, and procedures of 36 CFR Part 800.13(b) and (c); PRC Sections 5097.94, 5097.98 and 5097.99; and the California Health and Safety Code Section 7050.5 would be followed, including calling an archaeologist or paleontologist to evaluate the materials.

Conclusion

The Area of Potential Effects (APE) includes the subject parcels (APE #1, 2 and 3) and 15 of the surrounding and facing properties, or 18 properties in all. Archival research included an examination of historical maps to gain insight into the nature and extent of historical development in the general vicinity, and especially within the study area. Archival research found that there had been no previous archaeological survey of the project area. There are several known resources within a one-mile radius.

One resource is recorded within the project area. This resource is a late-19th century barn recorded by Carey & Company in 2008. At that time, the barn was considered significant at the local level. In May 2011 the barn was re-evaluated by Origer & Associates. Origer notes the two-story barn has been converted to a residence on the second floor and a utility/storage room on the first floor. The conversion resulted in significant alterations, including installation of modern windows and doors, walling off of barn doors and other openings, and installation of an overhead door. Origer concludes, the barn lacks sufficient integrity of design, materials, workmanship, setting, or feeling to be considered eligible for inclusion on the National Register or the California Register. None of the other buildings on the subject parcels appear eligible for the National Register or the California Register.

The Native American Heritage Commission (Attached Source (Pilas-Treadway, May 5, 2011)) was contacted regarding sacred lands on or near the project vicinity. The Native American Heritage Commission replied on May 5, 2011 that a records search failed to indicate the presence of Native American cultural resources in the immediate project area.

None of the adjacent properties are historic buildings, or designated as landmarks nor are they listed on the National Register of Historic Places. None of the structures in the Area of Potential Effects appear to be eligible for listing in the national Register of Historic Places. No prehistoric or historical archaeological sites were identified within the study area and no resource-specific recommendations are warranted.

Recommended Determination

For purposes of Section 106 Review of this undertaking, AEM Consulting recommends that the Agency Official determine that there are no historic properties in the Area of Potential Effects that will be adversely affected by the undertaking.

Works Cited

Alameda County Planning Department. (Adopted by the Alameda County Board of Supervisors June 1, 1995). *Ashland and Cherryland Business Districts Specific Plan.*

Beard, V. R. (May 19, 2011). *A Cultural Resources Survey for the Ashland Family Housing Project, San Lorenzo, Alameda County, California.* Rohnert Park, CA: Tom Origer & Associates.

Carey & Co. (March 2008.). *Intensive Survey of Fifty Properties in Unincorporated Alameda County.* DPR Form 523.

Pilas-Treadway, D. (May 5, 2011). *Record Search for Native American Sacred Lands.* Sacramento California: Native American Heritage Commission.

SIEGEL & STRAIN Architects. (APRIL 30, 1998). *PRELIMINARY CULTURAL RESOURCES SURVEY - ASHLAND & CHERRYLAND DISTRICTS.* Cultural resources Survey.

A Cultural Resources Survey for the Ashland Family Housing Project San Lorenzo, Alameda County, California

Vicki R. Beard, M.A.

May 19, 2011

A Cultural Resources Survey for the Ashland Family Housing Project San Lorenzo, Alameda County, California

Prepared by:

Vicki R. Beard, M.A.

Tom Origer & Associates
Post Office Box 1531
Rohnert Park, California 94927
(707) 584-8200

Prepared for:

Vern Miller
AEM Consulting
5441 Shallows Place East
Santa Rosa, California 95409

May 19, 2011

ABSTRACT

Tom Origer & Associates conducted a cultural resources survey for the Ashland Family Housing project in San Lorenzo, Alameda County, California. The project location consists of three contiguous parcels (APNs 080C-0479-022-00, 080C-0479-023-01, and 080C-0479-023-02) totaling about 1.89 acres. The study was requested by Vern Miller of AEM Consulting, and was designed to meet the requirements of Section 106 of the National Historic Preservation Act. Pursuant to Section 106, this study included contact with the Native American Heritage Commission and local Native American groups, archival research at the Northwest Information Center, Rohnert Park (NWIC 10-1110), examination of the library and files of Tom Origer & Associates, field survey of the project parcel, and an examination of buildings on parcels adjoining the project location. Documentation pertaining to this study is on file at the offices of Tom Origer & Associates (File No. 11-26S).

Field survey found a late 19th century barn on one of the project parcels. The two-story barn has been converted to a residence on the second floor and a utility/storage room on the first floor. The conversion resulted in significant alterations, including installation of modern windows and doors, walling off of barn doors and other openings, and installation of an overhead door. The barn lacks sufficient integrity of design, materials, workmanship, setting, or feeling to be considered eligible for inclusion on the National Register. None of the other buildings on project parcels appear eligible for the National Register.

Houses on parcels along Santa Ana Street could be contributors to an historic district but further research would be needed to define the district and determine its National Register status. The proposed project would not have adverse affects on any potential district on Santa Ana Street.

The Queen Anne house on Parcel 080C-0479-020 is of sufficient age and architectural interest to be considered for inclusion on the National Register. It is immediately adjacent to the planned project. This early-20th century home has excellent integrity in terms of design, materials, and workmanship, but the setting has already been altered so severely that the planned project will not further detract from the building's ability to meet National Register criteria.

Synopsis

Project:	Ashland Family Housing Project
Location:	San Lorenzo, Alameda County, California
APN:	080C-0479-022-00, 080C-0479-023-01, and 080C-0479-023-02
Quadrangles:	Hayward 7.5' series
Study Type:	Intensive survey of the project parcels and inspection of surrounding buildings
Scope:	1.89 acres
Finds:	No historic properties affected

Project Personnel

This report was prepared by Vicki R. Beard, who has been with Tom Origer & Associates since 1990. Ms. Beard holds a Master of Arts in cultural resources management with an emphasis in historical resources, and meets the Secretary of the Interior's standards for archaeology, history, and architectural history. Graduate coursework and applied studies included building and structure evaluation, and historical research. Post-graduate work has been completed in historical architecture through the Architecture Department at the University of California Berkeley; heritage resource management at the University of Nevada, Reno; and architectural history and historic landscapes through the National Preservation Institute, Alexandria, Virginia. Professional affiliations include the Society of Architectural Historians, Northern California Chapter of the Society of Architectural Historians, and Vernacular Architecture Forum. She is also listed on the Register of Professional Archaeologists.

CONTENTS

ABSTRACT i
Synopsis i
Project Personnel ii
INTRODUCTION 1
REGULATORY CONTEXT 1
Resource Definitions 2
PROJECT SETTING 3
Study Location and Description 3
Cultural Setting 4
Cultural Setting 5
STUDY PROCEDURES 5
Native American Contact 5
Archival Study Procedures 5
Archival Study Results 6
Field Survey Procedures 9
Field Survey Results 9
Archaeology 9
Built Environment 9
CONCLUSIONS AND RECOMMENDATIONS 10
Conclusions 10
Archaeology 10
Built Environment 10
Recommendations 11
Archaeology 11
Built Environment 11
Accidental Discovery 11
SUMMARY 12
MATERIALS CONSULTED 12

FIGURES

Figure 1. Project vicinity 1
Figure 2. Study Location 4
Figure 3. Aerial view of project parcels 7
Figure 4. Project area and adjoining parcels 8

TABLES

Table 1. Summary of Project Parcels 3
Table 2. Summary of Parcels Adjacent to the Project Area 7

INTRODUCTION

This report describes a cultural resources survey conducted for the Ashland Family Housing project in San Lorenzo, Alameda County, California (Figure 1). The study was completed at the request of Vern Miller of AEM Consulting, on behalf of the project proponents. The project location consists of three contiguous parcels (APNs 080C-0479-022-00, 080C-0479-023-01, and 080C-0479-023-02) totaling about 1.89 acres. Because of the potential for federal funding for this project, the study is designed to comply with Section 106 of the National Historic Preservation Act. Documentation pertaining to this study is on file at Tom Origer & Associates (File No. 11-26S).

REGULATORY CONTEXT

Under Section 106, when a federal agency is involved in an undertaking, it must take into account the effects of the undertaking on historic properties (36CFR Part 800). Compliance with Section 106 requires that agencies make an effort to identify historic properties that might be affected by a project, and gather information to evaluate their eligibility for inclusion on the National Register of Historic Places (National Register). Pursuant to Section 106, the goals of this study were to: 1) identify all historic properties within the project area; 2) offer a preliminary evaluation of the significance of identified resources; 3) determine resource vulnerability to adverse impacts that could arise from project activities; and 4) offer recommendations designed to protect historical resource values, as warranted.

Figure 1. Project vicinity (adapted from the 1980 San Francisco 1:250,000-scale USGS map).

Resource Definitions

Cultural resources are classified by the State Office of Historic Preservation (OHP) as sites, buildings, structures, objects and districts, and each is described by OHP (1995) as follows.

> **Site.** A site is the location of a significant event, a prehistoric or historic occupation or activity, or a building or structure, whether standing, ruined, or vanished, where the location itself possesses historic, cultural, or archaeological value regardless of the value of any existing structure.
>
> **Building.** A building, such as a house, barn, church, hotel, or similar construction, is created principally to shelter any form of human activity. "Building" may also be used to refer to a historically and functionally related unit, such as a courthouse and jail, or a house and barn.
>
> **Structure.** The term "structure" is used to distinguish from buildings those functional constructions made usually for purposes other than creating human shelter.
>
> **Object.** The term "object" is used to distinguish from buildings and structures those constructions that are primarily artistic in nature or are relatively small in scale and simply constructed. Although it may be, by nature or design, movable, an object is associated with a specific setting or environment.
>
> **District.** A district possesses a significant concentration, linkage, or continuity of sites, buildings, structures, or objects united historically or aesthetically by plan or physical development.

Significance Criteria

The importance of a historic resource is evaluated in terms of National Register criteria put forth in 36CFR60, as follows:

> The quality of significance is present in properties that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:
>
> A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
>
> B. That are associated with the lives of persons significant in our past; or

C. That embody the distinct characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. That have yielded or may be likely to yield, information important in prehistory or history.

The California Office of Historic Preservation (OHP) suggests that all resources over 45 years old be recorded for inclusion in the OHP filing system (OHP 1995:2), although professional judgment is urged in determining whether a resource warrants documentation.

PROJECT SETTING

Study Location and Description

The 1.89-acre project area is located in west-central Alameda County, at the intersection of East 14th Street and Kent Avenue in San Lorenzo, as shown on the Hayward 7.5' USGS topographic quadrangle (Figure 2). The project area comprises three contiguous parcels. Located within the project area are two single-family dwellings, a mobile home park, and an old barn. Table 1 summarizes the project parcels.

The project area lies about 0.4 miles north-northeast of the present-day course of San Lorenzo Creek, a year0-round watercourse that drains to San Francisco Bay. Soils mapped for this location are of the Yolo series (Welch *et al.* 1981), which are well-drained alluvial soils formed from sedimentary rocks and found on alluvial fans and flood plains (Welch *et al.* 1981:30). In Alameda County, land with Yolo soils has been used for urban development primarily.

The proximity of the project area to a year-round water source and the presence of well-drained soils suggest that it would have been a likely area for prehistoric people to live or gather resources.

Table 1. Summary of Project Parcels

Address	APN	Description	Date*
16331 Kent Ave	080C-0479-022-00	Residential (with barn)	1947
16325 Kent Ave	080C-0479-023-01	Residential	1958
16309 Kent Ave	080C-0479-023-02	Mobile Home Park	1948
* Derived from Alameda County records			

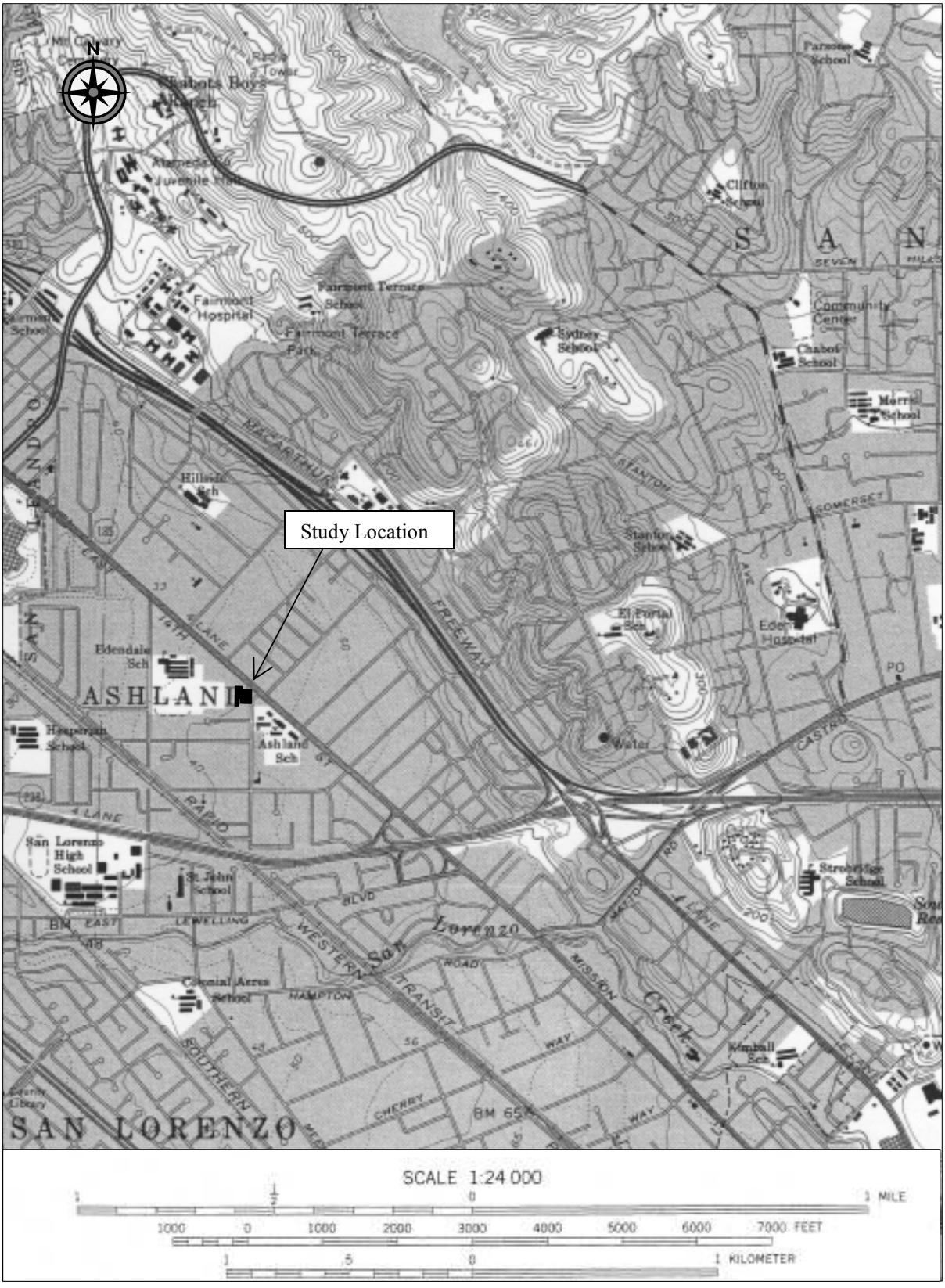


Figure 2. Study Location (adapted from the 1980 USGS Hayward 7.5' map).

Cultural Setting

Archaeological evidence indicates that human occupation of California began at least 10,000 years ago (Moratto 1984:71). Early occupants appear to have had an economy based largely on hunting, with limited exchange, and social structures based on the extended family unit. Later, milling technology and an inferred acorn economy were introduced. This diversification of economy appears to be coeval with the development of sedentism and population growth and expansion. Sociopolitical complexity and status distinctions based on wealth are also observable in the archaeological record, as evidenced by an increased range and distribution of trade goods (e.g., shell beads, obsidian tool stone), which are possible indicators of both status and increasingly complex exchange systems.

At the time of European settlement, the study area was included in the territory controlled by the Ohlone, who are also referred to as Costanoans (Levy 1978:485-495). The Ohlone were hunter-gatherers who lived in rich environments that allowed for dense populations with complex social structures (Levy 1978:485-495; Kroeber 1925:462-473). They settled in large, permanent villages about which were distributed seasonal camps and task-specific sites. Primary village sites were occupied throughout the year and other sites were visited in order to procure particular resources that were especially abundant or available only during certain seasons. Sites often were situated near fresh water sources and in ecotones where plant life and animal life were diverse and abundant.

STUDY PROCEDURES

Native American Contact

A letter was sent to the State of California's Native American Heritage Commission seeking information from the sacred lands files, which track Native American cultural resources, and the names of Native American individuals and groups that would be appropriate to contact regarding this project. The Native American Heritage Commission replied with a letter dated May 5, 2011, in which they indicated that the sacred land file has no information about the presence of Native American cultural resources in the immediate project area.

Letters were also sent to local Native American groups and individuals identified by the Native American Heritage Commission. A log of contact efforts is provided at the end of this report (Appendix A), along with copies of correspondence.

Archival Study Procedures

Archival research included examination of the library and project files at Tom Origer & Associates. A review (NWIC File No. 10-1110) was completed of the archaeological site base maps and records, survey reports, and other materials on file at the Northwest Information Center (NWIC), Sonoma State University, Rohnert Park. Sources of information included but were not limited to the current listings of properties on the National Register of

Historic Places (National Register), California Historical Landmarks, California Register of Historical Resources (California Register), and California Points of Historical Interest as listed in the Office of Historic Preservation's *Historic Property Directory* (OHP 2011).

The Office of Historic Preservation has determined that structures in excess of 45 years of age should be considered potentially important historical resources, and former building and structure locations could be potentially important historic archaeological sites. Archival research included an examination of historical maps to gain insight into the nature and extent of historical development in the general vicinity, and especially within the study area. Maps ranged from hand-drawn maps of the 1800s (e.g., GLO) to topographic maps issued by the United States Army Corps of Engineers and United States Geological Survey (USGS).

In addition, ethnographic literature that describes appropriate Native American groups, county histories, and other primary and secondary sources were reviewed. Sources reviewed are listed in the "Materials Consulted" section of this report.

Archival Study Results

Archival research found that there had been no previous archaeological survey of the project area, and that there are several known resources within a one-mile radius. One resource is recorded within the project area. This resource is a late-19th century barn recorded by Carey & Company in 2008. Documentation for the barn is included as Appendix B. At that time, the barn was considered significant at the local level.

There are no reported ethnographic sites within or near the project area (Kroeber 1925; Levy 1985:485). Review of historical maps found no evidence of buildings or structures on the project parcels (Higley 1857; Thompson & West 1878; USGS 1896, 1914, 1915, 1950).

Based on the results of the prefield research, it was anticipated that prehistoric and, to a lesser degree, historical resources could be found within the study area. Prehistoric archaeological site indicators expected to be found in the region include but are not limited to: obsidian and chert flakes and chipped stone tools; grinding and mashing implements such as slabs and handstones, and mortars and pestles; and locally darkened midden soils containing some of the previously listed items plus fragments of bone, shellfish, and fire affected stones. Historical site indicators generally include: buildings and structures, fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, dumps).

Figure 3. Aerial view of project parcels.

Table 2. Summary of Parcels Adjacent to the Project Area

Address	APN	Description	Date
1084 Santa Ana St	080C-0479-013	Single-family Residential	1950
1098 Santa Ana St	080C-0479-014	Single-family Residential	1950
1116 Santa Ana St	080C-0479-015	Single-family Residential	1950
16341 Kent Ave	080C-0479-020	Single-family Residential	1900
16327 Kent Ave	080C-0479-021	Single-family Residential	1949
16407 E. 14th St	080B-0300-001-02	Commercial	1955
1100 Kentwood Ln	080B-0300-002-05	Ashland Village Apartments	1984
16375 E. 14th St	080C-0479-007	Commercial (converted SFR)	1930
16349 E. 14th St	080C-0479-006-09	Commercial	1910
16343 E. 14th St	080C-0479-006-08	Commercial	1964
16305 E. 14th St	080C-0479-006-20	Vacant	NA
16160 Ashland Ave	0080C-0483-001	Park	NA

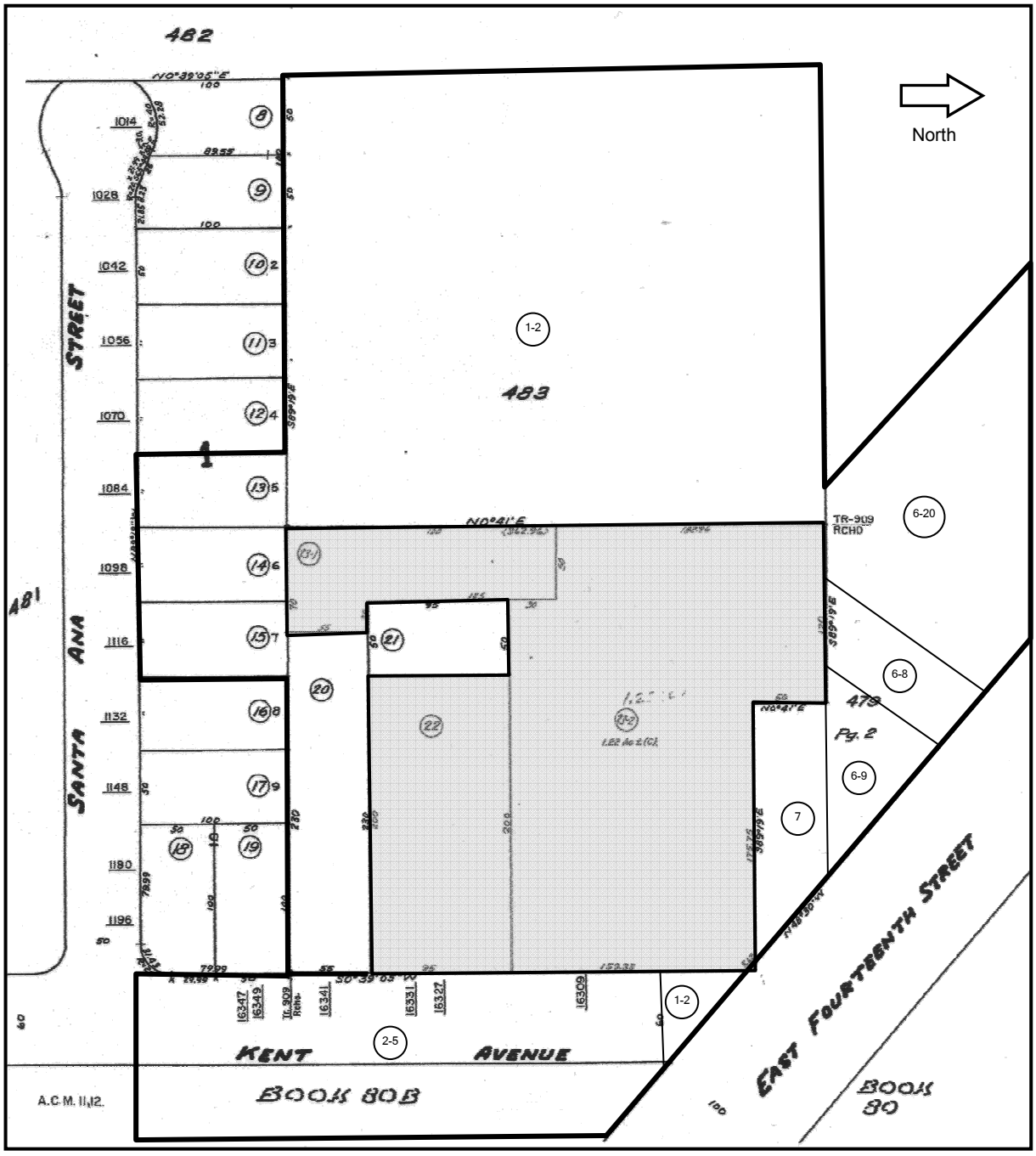


Figure 4. Project area and adjoining parcels (adapted from Alameda County Assessor's parcel maps). Project parcels are shown in gray. Individual parcels are identifiable by the last part of the Assessor's Parcel Numbers in Table 2.

Field Survey Procedures

An intensive field survey of the project parcels was completed by the author on May 9, 2011. The study area was examined by walking in a zigzag fashion within corridors about 15 meters wide, where possible. Visibility was generally poor, with fill being the chief hindrance. A hoe was used as necessary to clear small patches so that the soil could be inspected.

A survey was also made of buildings on the 12 parcels adjacent to the project area to identify possible historic properties that could be affected by the project. Photographs were taken of these buildings and note was made of their age, potential importance, and level of integrity. Table 2 summarizes information regarding adjacent parcels. Figure 3 provides a view of the three project parcels, and Figure 4 shows adjacent parcels.

Field Survey Results

Archaeology

No prehistoric or historic-period archaeological resources were discovered within the study area.

Built Environment

*Project Parcels***.** Parcel 080C-0479-022-00 contains a one-story, H-shaped residence that fronts on Kent Avenue. The house was constructed in 1958. It has a hipped roof and is a frame structure clad in stucco. The front of the house has a slightly recessed stoop that runs between the two side wings and is sheltered by the principal roof. Windows are primarily one-over-one, double-hung, wood sashes. There is one porthole-style window at the front. At the rear of the house are a garage/shed, a manufactured home, and the old barn referred to under "Archival Study Results" above.

Parcel 080C-0479-023-01 is a land-locked, L-shaped parcel that contains a 1940s dwelling. This house is a one-story, hipped-roof frame structure clad in stucco. Windows appear to be original, aluminum sashes in a variety of configurations.

Parcel 080C-0479-023-02 is the largest of the three project parcels and contains a mobile home park. Buildings on this parcel included two flat-roofed utility sheds and a small, flat-roofed residence. All are wood framed and clad with stucco. These buildings appear to have been constructed in the 1950s.

*Adjacent Parcels***.** As shown in Figure 4, the project area is adjacent to 12 parcels. A park and a vacant parcel are north and northeast of the project area, respectively. Parcels along the west side are single-family dwellings built during the early to mid-20th century. South of the project area, is a large apartment complex constructed in 1984, and a retail market built in 1955. Buildings along the west side of the project area face East 14th Street, away from the project area, and were built between 1910 and 1964. Two are commercial properties and one

is a house that has been converted to an office. Buildings older than 50 years are addressed below.

The 1950 housing development west of the project area fronts on Santa Ana Street. These are modest, post-war homes that, as individual properties, are unlikely to meet National Register eligibility criteria. There is potential for a historic district to be established along Santa Ana Street.

Parcel 080C-0479-020 contains a one-story, Queen Anne house constructed at the turn of the 20th century. This house has a hipped roof with a front-facing, gabled wing that features a cutaway bay. The porch has turned posts for support and spindle decoration along the top. The roof/wall junction is marked by decorative dentils. This house has excellent integrity of design, materials, and workmanship. Development in this area has impacted the historical setting.

Parcel 080C-0479-007 has a 1930s vernacular house that has been converted to an office. The house is a one-story, cross-gabled, frame building clad with stucco. This is a common house type with no architectural distinction and it is unlikely that this house would meet National Register eligibility criteria.

Parcel 080C-0479-006-09 contains a 1910 commercial building used by a glass tinting company. This building has a shed roof and the façade is a parapetted false front. The building is of frame construction and is clad primarily with corrugated metal panels. Changes over the years have been piecemeal and leave the building with an awkward appearance. It is unlikely that this building would meet National Register eligibility criteria.

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Archaeology

This study found that there are no archaeological resources that will be affected by the project. There is a slight possibility that buried archaeological deposits could be encountered during construction and recommendations for such an occurrence are provided later in this report.

Built Environment

Field survey found a late 19th century barn on one of the project parcels. The two-story barn has been converted to a residence on the second floor and a utility/storage room on the first floor. The conversion resulted in significant alterations, including installation of modern windows and doors, walling off of barn doors and other openings, and installation of an overhead door. The barn lacks sufficient integrity of design, materials, workmanship, setting, or feeling to be considered eligible for inclusion on the National Register. No other buildings on project parcels have the potential to meet National Register eligibility criteria.

In general, buildings on surrounding parcels lack National Register potential. The homes on parcels along Santa Ana Street could be contributors to an historic district but further research would be needed to define the district and determine its National Register status. The proposed project would not have adverse affects on any potential district on Santa Ana Street.

The Queen Anne house on Parcel 080C-0479-020 is of sufficient age and architectural interest to be considered for inclusion on the National Register. It is immediately adjacent to the planned project. This early-20th century home has excellent integrity in terms of design, materials, and workmanship, but the setting has already been altered so severely that the planned project will not further detract from the building's ability to meet National Register criteria.

The proposed project will have no adverse affects on historic properties.

Recommendations

Archaeology

No prehistoric or historical archaeological sites were identified within the study area and no resource-specific recommendations are warranted.

Built Environment

No historic buildings or structures were found on the project parcels or on adjacent parcels that would be adversely affected by the proposed project. No recommendations are warranted.

Accidental Discovery

There is the possibility that buried archaeological materials could be found. If buried materials are encountered, all soil disturbing work should be halted at the location of any discovery until a qualified archaeologist completes a significance evaluation of the find(s) pursuant to Section 106 of the National Historic Preservation Act (36CFR60.4). Prehistoric archaeological site indicators expected within the general area include: chipped chert and obsidian tools and tool manufacture waste flakes; grinding and hammering implements that look like fist-size, river-tumbled stones; and for some rare sites, locally darkened soil that generally contains abundant archaeological specimens. Historical remains expected in the general area commonly include items of ceramic, glass, and metal. Features that might be present include structure remains (e.g., cabins or their foundations) and pits containing historical artifacts.

SUMMARY

This cultural resources study for Ashland Family Homes was completed at the request of Vern Miller of AEM Consulting. The study was conducted in compliance with Section 106 of the National Historic Preservation Act and included archival research, intensive field survey of project parcels, and examination of buildings within and adjacent to the project area.

The project parcels contain no archaeological resources, and existing buildings lack the potential to meet National Register eligibility criteria. Potential National Register-eligible properties were found on adjacent parcels but they will not be adversely affected by the proposed project. No further study was recommended.

MATERIALS CONSULTED

Alameda County
2011 Alameda County Landmarks & Contributing Buildings Identified in 2005-2008 Comprehensive Survey. <http://www.acgov.org/cda/planning/landuseprojects/documents/phrcList.pdf>

Baker, J. (Editor)
1914 *Past and Present of Alameda County, California.* Vol. 1. S.J. Clarke, Oakland.

Bean, L. (Editor)
1994 *The Ohlone Past and Present.* Ballena Press, Menlo Park.

Carey & Company
2008 Primary Record for 16331 Kent Avenue. Document on file at Tom Origer & Associates.

General Land Office
1863 Plat of the Rancho San Lorenzo. Department of the Interior, Washington, D.C.

Higley, H.
1857 Official Map of the County of Alameda, California. Britton & Rey, San Francisco.

Hoover, M., H. Rensch, E. Rensch, W. Abeloe
1966 *Historic Spots in California.* 3rd edition. Stanford University Press. Stanford.

Hoover, M., H. Rensch, E. Rensch, W. Abeloe, and D. Kyle
2000 *Historic Spots in California.* 5th edition, Stanford University Press. Stanford.

Kroeber, A.
1925 *Handbook of the Indians of California.* Bureau of American Ethnology, Bulletin 78, Smithsonian Institution, Washington, D.C.

Levy, R.
1978 Costanoan. In *California* edited by R. Heizer, pp. 485-495. Handbook of North American Indians, Vol. 8, W. Sturtevant, general editor. Smithsonian Institution, Washington, D.C.

Margolin, M.
1978 *The Ohlone Way.* Heyday Books, Berkeley.

McAlester, V. and L. McAlester
1991 *A Field Guide to American Houses*. Alfred A. Knopf, New York.

Meighan, C.
1955 *Archaeology of the North Coast Ranges, California.* Reports of the University of California Archaeological Survey No. 30. University of California, Berkeley.

Milliken, R.
1995 *A Time of Little Choice.* Ballena Press, Menlo Park.

Moratto, M.
1984 *California Archaeology.* Academic Press, San Francisco.

Office of Historic Preservation
1995 *Instructions for Recording Historic Resources*. Office of Historic Preservation, Sacramento.

2011 *Historic Property Directory*. Office of Historic Preservation, Sacramento.

Thompson & West
1878 *Official Historical Atlas Map of Alameda County, California.* Thompson & West, Oakland.

United States Geological Survey
1896 Hayward, California. 15' map series. Geological Survey, Washington, D.C.

1928 Hayward, California. 15' map series. Geological Survey, Washington, D.C.

1939 Hayward, California. 15' map series. Geological Survey, Washington, D.C.

Welch, L., R. Huff, R. Dierking, T. Cook, L. Bates, W. Andrews
1966 *Soil Survey of the Alameda Area, California.* U.S. Department of Agriculture in co-operation with the University of California Agricultural Experiment Station.

APPENDIX A: Native American Correspondence

Contact Log
Correspondence

Native American Contact Efforts
Ashland Family Housing Project
Alameda County, California

Organization	Contact	Letters	Results
Native American Heritage Commission	Debbie Pilas-Treadway	4/27/11	Letter received 5/5/11 NAHC has no information about resources in the immediate project area
Muwekma Ohlone Indian Tribe of the San Francisco Bay Area	Rosemary Cambra	5/10/11	No comments received as of the date of this report.
Amah/Mutsun Tribal Band	Jean-Mari Feyling	5/10/11	No comments received as of the date of this report.
The Ohlone Indian Tribe	Andrew Galvan	5/10/11	No comments received as of the date of this report.
Trina Marine Ruano Family	Ramona Garibay	5/10/11	No comments received as of the date of this report.
	Jakki Kehl	5/10/11	No comments received as of the date of this report.
	Katherine Erolinda Perez	5/10/11	No comments received as of the date of this report.
Indian Canyon Mutsun Band of Costanoan	Ann Marie Sayers	5/10/11	No comments received as of the date of this report.
	Linda G. Yamane	5/10/11	No comments received as of the date of this report.
Amah/Mutsun Tribal Band	Irene Zwierlein	5/10/11	No comments received as of the date of this report.

Tom Origer & Associates
Archaeology / Historical Research

April 27, 2011

Debbie Pilas-Treadway
Native American Heritage Commission
915 Capitol Mall
Sacramento, California 95814

VIA FACIMILE
Re: Ashland Family Housing Project, Alameda County, California

Dear Ms. Pilas-Treadway:

I write regarding a cultural resources study our firm is conducting for the above referenced project. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the Hayward 7.5' USGS quadrangle. We are seeking information from the Native American Heritage Commission regarding possible sacred lands and other cultural sites within this area. We would also like to obtain a list of individuals whom it would be appropriate to contact regarding this project.

Below is information to aid in your search. Please contact me at (707) 584-8200 if you have any questions or need additional information. Thank you for your help.

Sincerely,

Eileen Barrow
Associate

Encl. Portion of San Leandro and Hayward 7.5' USGS maps showing project area.

County	USGS Map	Township	Range	Sections	Comments
Alameda	Hayward 7.5'				The project area is located within the San Lorenzo (Soto) land grant.

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

Tom Origer & Associates
Archaeology / Historical Research

May 10, 2011

Rosemary Cambra
Muwekma Ohlone Indian Tribe of the San Francisco Bay Area
2574 Seaboard Avenue
San Jose, California 95131

Re: Cultural Resources Study for the Ashland Family Project, Alameda County, California.

Dear Ms. Cambra:

I write to notify you about a cultural resources study that our firm is conducting for the Ashland Family Project, Alameda County, California. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the enclosed Hayward, California 7.5' USGS quadrangle.

If you have any information or concerns about this project we would be happy to convey them to our client.

Please contact us at (707) 584-8200 if you need additional information. Thank you for your help.

Sincerely,

Eric Strother
Senior Associate

Encl: A portion of the Hayward, California 7.5' USGS map

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

Tom Origer & Associates
Archaeology / Historical Research

May 10, 2011

Jean-Mari Feyling
Amah/Mutsun Tribal Band
19350 Hunter Court
Redding, California 96003

Re: Cultural Resources Study for the Ashland Family Project, Alameda County, California.

Dear Ms. Feyling:

I write to notify you about a cultural resources study that our firm is conducting for the Ashland Family Project, Alameda County, California. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the enclosed Hayward, California 7.5' USGS quadrangle.

If you have any information or concerns about this project we would be happy to convey them to our client.

Please contact us at (707) 584-8200 if you need additional information. Thank you for your help.

Sincerely,

Eric Strother
Senior Associate

Encl: A portion of the Hayward, California 7.5' USGS map

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

Tom Origer & Associates
Archaeology / Historical Research

May 10, 2011

Andrew Galvan
The Ohlone Indian Tribe
PO Box 3152
Fremont, California 94539

Re: Cultural Resources Study for the Ashland Family Project, Alameda County, California.

Dear Mr. Galvan:

I write to notify you about a cultural resources study that our firm is conducting for the Ashland Family Project, Alameda County, California. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the enclosed Hayward, California 7.5' USGS quadrangle.

If you have any information or concerns about this project we would be happy to convey them to our client.

Please contact us at (707) 584-8200 if you need additional information. Thank you for your help.

Sincerely,

Eric Strother
Senior Associate

Encl: A portion of the Hayward, California 7.5' USGS map

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

Tom Origer & Associates
Archaeology / Historical Research

May 10, 2011

Ramona Garibay
Trina Marine Ruano Family
30940 Watkins Street
Union City, California 94587

Re: Cultural Resources Study for the Ashland Family Project, Alameda County, California.

Dear Ms. Garibay:

I write to notify you about a cultural resources study that our firm is conducting for the Ashland Family Project, Alameda County, California. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the enclosed Hayward, California 7.5' USGS quadrangle.

If you have any information or concerns about this project we would be happy to convey them to our client.

Please contact us at (707) 584-8200 if you need additional information. Thank you for your help.

Sincerely,

Eric Strother
Senior Associate

Encl: A portion of the Hayward, California 7.5' USGS map

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

Tom Origer & Associates
Archaeology / Historical Research

May 10, 2011

Jakki Kehl
720 North 2nd Street
Patterson, California 95363

Re: Cultural Resources Study for the Ashland Family Project, Alameda County, California.

Dear Ms. Kehl:

I write to notify you about a cultural resources study that our firm is conducting for the Ashland Family Project, Alameda County, California. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the enclosed Hayward, California 7.5' USGS quadrangle.

If you have any information or concerns about this project we would be happy to convey them to our client.

Please contact us at (707) 584-8200 if you need additional information. Thank you for your help.

Sincerely,

Eric Strother
Senior Associate

Encl: A portion of the Hayward, California 7.5' USGS map

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

Tom Origer & Associates
Archaeology / Historical Research

May 10, 2011

Katherine Erolinda Perez
PO Box 717
Linden, CA 95236

Re: Cultural Resources Study for the Ashland Family Project, Alameda County, California.

Dear Ms. Perez:

I write to notify you about a cultural resources study that our firm is conducting for the Ashland Family Project, Alameda County, California. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the enclosed Hayward, California 7.5' USGS quadrangle.

If you have any information or concerns about this project we would be happy to convey them to our client.

Please contact us at (707) 584-8200 if you need additional information. Thank you for your help.

Sincerely,

Eric Strother
Senior Associate

Encl: A portion of the Hayward, California 7.5' USGS map

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

Tom Origer & Associates
Archaeology / Historical Research

May 10, 2011

Ann Marie Sayers
Indian Canyon Mutsun Band of Costanoan
PO Box 28
Hollister, California 95024

Re: Cultural Resources Study for the Ashland Family Project, Alameda County, California.

Dear Ms. Sayers:

I write to notify you about a cultural resources study that our firm is conducting for the Ashland Family Project, Alameda County, California. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the enclosed Hayward, California 7.5' USGS quadrangle.

If you have any information or concerns about this project we would be happy to convey them to our client.

Please contact us at (707) 584-8200 if you need additional information. Thank you for your help.

Sincerely,

Eric Strother
Senior Associate

Encl: A portion of the Hayward, California 7.5' USGS map

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

Tom Origer & Associates
Archaeology / Historical Research

May 10, 2011

Linda G. Yamane
1585 Mira Mar Ave.
Seaside, California 93955

Re: Cultural Resources Study for the Ashland Family Project, Alameda County, California.

Dear Ms. Yamane:

I write to notify you about a cultural resources study that our firm is conducting for the Ashland Family Project, Alameda County, California. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the enclosed Hayward, California 7.5' USGS quadrangle.

If you have any information or concerns about this project we would be happy to convey them to our client.

Please contact us at (707) 584-8200 if you need additional information. Thank you for your help.

Sincerely,

Eric Strother
Senior Associate

Encl: A portion of the Hayward, California 7.5' USGS map

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

Tom Origer & Associates
Archaeology / Historical Research

May 10, 2011

Irene Zwierlein
Amah/Mutsun Tribal Band
789 Canada Road
Woodside, California 94062

Re: Cultural Resources Study for the Ashland Family Project, Alameda County, California.

Dear Ms. Zwierlein:

I write to notify you about a cultural resources study that our firm is conducting for the Ashland Family Project, Alameda County, California. The project area consists of 1.89 acres of land that is proposed for low-income housing development located at 16309-16331 Kent Avenue in the City of San Lorenzo. The project area is shown on the enclosed Hayward, California 7.5' USGS quadrangle.

If you have any information or concerns about this project we would be happy to convey them to our client.

Please contact us at (707) 584-8200 if you need additional information. Thank you for your help.

Sincerely,

Eric Strother
Senior Associate

Encl: A portion of the Hayward, California 7.5' USGS map

P.O. Box 1531, Rohnert Park, California 94927 ♦ Phone (707) 584-8200 Fax (707) 584-8300

STATE OF CALIFORNIA Edmund G. Brown Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
915 CAPITOL MALL, ROOM 364
SACRAMENTO, CA 95814
(916) 653-4082
Fax (916) 657-5390
Web Site www.nahc.ca.gov

May 5, 2011

Eileen Barrow
TOM ORIGER & ASSOCIATES
P.O. Box 1531
Rohnert Park, CA 94927

Sent by Fax: 707-584-8300
Number of Pages: 2

Re: Proposed Ashland family Housing Project, Alameda County.

Dear Ms. Barrow:

A record search of the sacred land file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe or group. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 653-4038.

Sincerely,

Debbie Pilas-Treadway
Environmental Specialist III

Native American Contacts
Alameda County
May 2, 2011

Jakki Kahl
720 North 2nd Street
Patterson , CA 95363
jakki@bigvalley.net
(209) 892-1060
Ohlone/Costanoan

Indian Canyon Mutsun Band of Costanoan
Ann Marie Sayers, Chairperson
P.O. Box 28
Hollister , CA 95024
ams@indiancanyon.org
831-637-4238
Ohlone/Costanoan

Katherine Erolinda Perez
PO Box 717
Linden , CA 95236
canutes@verizon.net
(209) 887-3415
Ohlone/Costanoan
Northern Valley Yokuts
Bay Miwok

Muwekma Ohlone Indian Tribe of the SF Bay Area
Rosemary Cambra, Chairperson
2574 Seaboard Avenue
San Jose , CA 95131
muwekma@muwekma.org
408-205-9714
510-581-5194
Ohlone / Costanoan

Linda G. Yamane
1585 Mira Mar Ave
Seaside , CA 93955
rumsien123@yahoo.com
831-394-5915
Ohlone/Costanaon

The Ohlone Indian Tribe
Andrew Galvan
PO Box 3152
Fremont , CA 94539
chochenyo@AOL.com
(510) 882-0527 - Cell
(510) 687-9393 - Fax
Ohlone/Costanoan
Bay Miwok
Plains Miwok
Patwin

Amah/MutsunTribal Band
Irene Zwierlein, Chairperson
789 Canada Road
Woodside , CA 94062
amah_mutsun@yahoo.com
(650) 851-7747 - Home
(650) 851-7489 - Fax
Ohlone/Costanoan

Trina Marine Ruano Family
Ramona Garibay, Representative
30940 Watkins Street
Union City , CA 94587
soaprootmo@msn.com
510-972-0645-home
209-688-4753-cell
Ohlone/Costanoan
Bay Miwok
Plains Miwok
Patwin

Amah/MutsunTribal Band
Jean-Marie Feyling
19350 Hunter Court
Redding , CA 96003
jmfgmc@sbcglobal.net
530-243-1633
Ohlone/Costanoan

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Ashland Family Housing Project, Alameda County

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 #:** 16331 Kent Avenue

P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** Alameda

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** Hayward **Date:** **T** ; **R** ; **¼ of** **¼ of Sec** **;** M.D. **B.M.**

c. Address: 16331 Kent Avenue City: San Lorenzo Zip: 94580

d. UTM: Zone: 10 ; mE/ mN (G.P.S.)

e. Other Locational Data: Elevation:

Assessor Parcel Number: 080C-0479-022

***P3a. Description:**

The barn at 16331 Kent Avenue sits on a large parcel surrounded by residential development, including mobile homes and multi-family dwellings. The two-story structure has rectangular plan with a saltbox roof formed by a one-story addition on the west elevation that continues the pitch of the barn's main gable roof. Wood horizontal boards clad the barn, and the eaves overhang. The façade faces north and has two entrances at the first story, three smaller rectangular openings at the second story, and an arched opening in the gable, each with diagonal wood doors. Similar openings are located throughout the building. (The description is based on a photograph taken in 1997 as part of the "Preliminary Cultural Resources Survey: Ashland & Cherryland Districts, San Lorenzo, Alameda County, California" conducted by Stiegel & Strain, Architects. Carey and Co. was unable to obtain site access, since the barn sits on private property and cannot be viewed from the public right-of-way.)

***P3b. Resource Attributes:** HP4, Ancillary building

***P4. Resources Present:** ☑Building ☐Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing

P5b. Description of Photo:
Bird's eye view, looking north. Microsoft Live, http://maps.live.com, accessed March 4, 2008.

***P6. Date Constructed/Age and Sources:**
☑Historic ☐Prehistoric ☐Both
c. 1890; Stiegel & Strain, "Preliminary Cultural Resources Survey: Ashland & Cherryland Districts."

***P7. Owner and Address:**
Thomas P. and Ella S. Eplin
5431 Blackhawk Drive
Danville, CA 94506

***P8. Recorded by:**
Carey & Co., Inc.
460 Bush Street
San Francisco, CA 94108

***P9. Date Recorded:**
February 2008

***P10. Survey Type:** Intensive

***P11. Report Citation:** Carey & Co. "Intensive Survey of Fifty Properties in Unincorporated Alameda County ." March 2008.

***Attachments:** ☐NONE ☐Location Map ☐Sketch Map ☑Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

BUILDING, STRUCTURE, AND OBJECT RECORD

***NRHP Status Code** 5S1

***Resource Name or #** 16331 Kent Avenue

B1. Historic Name:
B2. Common Name:
B3. Original Use: Barn
B4. Present Use: Barn

***B5. Architectural Style:** Barn

***B6. Construction History:** Constructed c. 1890.

***B7. Moved?** ☑No ☐Yes ☐Unknown **Date:** **Original Location:**

***B8. Related Features:**

B9a. Architect: Unknown
b. Builder: Unknown

***B10. Significance: Theme:** Agriculture
Area: San Lorenzo
Period of Significance: c. 1890
Property Type: Agricultural
Applicable Criteria: N/A

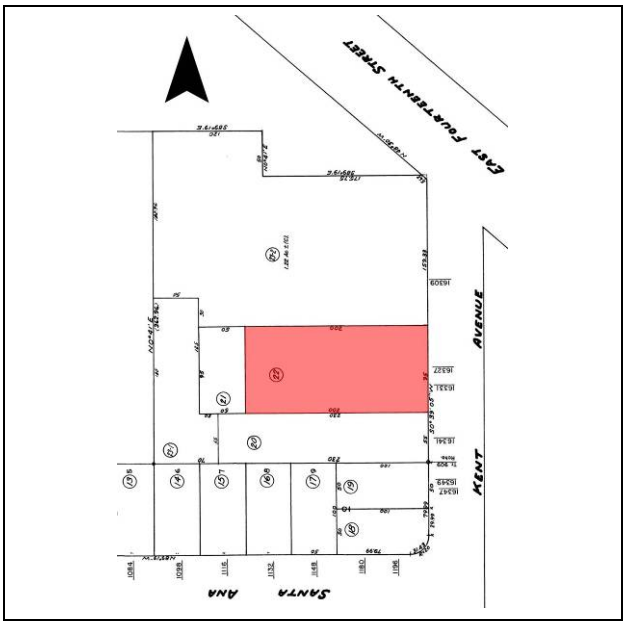
The building appears to be locally significant as an intact barn that retains a good level of integrity in San Lorenzo. It may have been constructed around 1890 and reflects the town's early agricultural heritage. In the 1850s, American settlers were attracted to San Lorenzo's excellent soil and weather that allowed crops to be grown year round (Stock and Corbett, 7). Farmers initially cultivated potatoes, sugar beets, barley, and wheat among other crops, and traveled to Robert's Landing to ship their produce and grains on boats bound for San Francisco. Early settlers, such as John Lewelling and William Meek, brought fruit trees to San Lorenzo, and cherries, pears, plums, and apricots also became popular among farmers (Marciel, 8). Railroads and refrigerated cars allowed produced to be shipped even greater distances, and San Lorenzo became one of California's largest producers of farm crops (Marciel, 8). In 1878, the South Pacific Railway Company built a railroad line connecting San Lorenzo with Santa Cruz to the south and Oakland to the north, and farmers began shipping their produce by rail. By 1898, San Lorenzo farmers shipped more fruit by rail from the San Lorenzo station than any other station in California (Stock and Corbett, 8). Archival research did not reveal much information on the barn, and its original use and owners are unknown. However, based on the barn's form and height, it is possible that animals and machinery were stored on the ground level, and hay or other grains were stored on the upper story.

B11. Additional Resource Attributes:

***B12. References:**

See continuation sheet.

B13. Remarks:



***B14. Evaluator:** Carey & Co., Inc.

***Date of Evaluation:** February 2008.

Continuation of B12. References:

Corbett, Michael R. "Historical and Cultural Resource Survey: East Alameda County." Prepared for Lisa Asche, Planner, Alameda County Community Development Agency, June 17, 2005.

Marciel, Doris, and the Hayward Area Historical Society. *Images of America: San Lorenzo*. San Francisco: Arcadia Publishing, 2006.

McAlester, Virginia and Lee. *A Field Guide to American Houses*. New York: Alfred A. Knopf, 2005.

Mohr, Nancy. *The Barn: Classic Barns of North America*. Philadelphia: Running Press Book Publishers, 2001.

Noble, Allen G. and Richard K. Creek. *The Old Barn Book: A Field Guide to North American Barns and Other Farm Structures*. New Brunswick, NJ: Rutgers University Press, 1995.

Stiegel & Strain, Architects. "Preliminary Cultural Resources Survey: Ashland & Cherryland Districts, San Lorenzo, Alameda County, California." April 30, 1998.

Stock, Jody R. and Michael Corbett. "Unincorporated San Lorenzo Historic Building Survey, Alameda County, California," draft summary report. November 2000.

PRELIMINARY CULTURAL RESOURCES SURVEY

ASHLAND & CHERRYLAND DISTRICTS

SAN LORENZO

ALAMEDA COUNTY

CALIFORNIA

APRIL 30 , 1998

SIEGEL & STRAIN Architects

TABLE OF CONTENTS

Project Description 1

Purpose 1

Research and Field Methods 2

Findings and Conclusions 3

Historical Overview 4

Recommendations 8

Bibliography 9

Appendices
- Project Location
- Field Survey Form
- Survey Summary Chart
- The National Register Criteria for Evaluation
  (Code of Federal Regulations, Title 36, Part 60)
  reprinted in National Register Bulletin 15
- Basin Research Report
- Historical Maps

PRELIMINARY CULTURAL RESOURCES SURVEY
ASHLAND & CHERRYLAND DISTRICTS
SAN LORENZO, CALIFORNIA

SUMMARY REPORT
April 30, 1998

PROJECT DESCRIPTION

This report presents findings of a preliminary, "windshield," identification and evaluation of potential historically and architecturally significant resources in the project area, an irregularly shaped portion of unincorporated land in San Lorenzo, Alameda County, California, bounded by 150th Avenue on the north, Foothill Blvd. and Route I-580 on the east, Hesperian and the Southern Pacific Railroad tracks on the west and Hayward city limits on the south. (see project location map in appendix). The area includes what is commonly known as the Ashland and Cherryland communities.

Under a contract with the Alameda County Planning Department and the Redevelopment Agency of the City of San Leandro, a windshield survey was conducted between September 1997 and March 1998 by Siegel & Strain Architects. As part of the contract a prehistoric and historic site record and literature search was conducted by Basin Research Associates.

PURPOSE

The purpose of the record search and windshield survey was to begin to identify significant properties and cultural resources within the area that are listed, or appear eligible for inclusion in the California Register of Historic Resources (CRHR). The most common measure of eligibility to the CRHR is eligibility to the National Register of Historic Places (NRHP). In this survey we used the widely known and accepted NRHP criteria.

To be eligible for the National Register of Historic Places a resource: (1) is at least 50 years old; (2) retains integrity of location, design, setting, materials, workmanship, feeling, and association; and, (3) has one or all of the following characteristics; (Criterion A) " is associated with events that have made a significant contribution to the broad patterns of our history"; (Criterion B) " is associated with the lives of persons significant in our past"; (Criterion C) " embodies the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction"; or, (Criterion D) "has yielded, or may be likely to yield, information important in prehistory or history." (36 CFR 60.4, see appendix).

A windshield survey is conducted from the street and is primarily a visual assessment that can only identify those properties that appear eligible for the NRHP under Criterion C

(above). To identify resources eligible under criteria A, B or D (archaeological resources) will require substantial archival research which is beyond the scope of this contract. This preliminary, "augmented windshield", survey should be considered an initial step toward an eventual comprehensive cultural resource survey of the area. The hope is that this preliminary survey will inform the future comprehensive survey and will serve as an interim planning tool for the Alameda County Planning Department to identify possible negative impacts on potentially significant buildings, landscape features, neighborhoods, and archaeological resources.

RESEARCH AND FIELD METHODS

Preparation for the field survey began by gathering historic maps of the area illustrating the development patterns over time. The maps ranged chronologically from 1874 to 1980. They are identified in the Bibliography and a representative sample appear in the appendix of this report. Prior to commencing the windshield survey, a prehistoric and historic site records search was performed by Basin Research Associates. Previous evaluations of historic properties within the study area by Caltrans (1981) were incorporated into the survey data.

During the field survey approximately 250 buildings and some streetscapes were photographed and field notes taken on survey forms (see sample form in appendix). The survey form identifies the address, building type and, where appropriate, architectural style, estimated date of construction, major character defining features, construction materials, general condition, degree of integrity and a preliminary evaluation of potential eligibility for the NRHP. The form also includes site information such as secondary structures and consistency of setbacks in a neighborhood. A black and white photo of each property is stapled to the survey form. Photos are labeled on the back and referenced to proof sheets, photo logs, and negatives submitted to the county.

Ideally a windshield survey would begin with a list of all properties in the area, their addresses, assessor's parcel numbers (APNs), date of construction, and other pertinent information. We did not have this information for the area prior to commencing the survey, but designed the survey form and summary chart so this data can be added in the future by local volunteers or Alameda County Planning Department summer interns.

The windshield survey was conducted between September, 1997 and March, 1998 by Siegel & Strain Architects, with input from Jay Claiborne, contract planner with the Alameda County Planning Department. The survey team drove the study area using historic maps for field reference. Photos were taken along with field notes and a preliminary evaluation was made for properties that appear potentially eligible for the NRHP or appear to contribute to the historic character of the area. The potential existence of historic districts, or significant clustering of historic resources was also examined during the survey.

In general, properties that were more than 50 years of age but clearly lacked integrity, that is had been substantially altered, were not surveyed. Outbuildings and secondary structures including agricultural buildings, significant landscape elements, or streetscapes were noted on the survey forms and appear in the comments column of the summary chart.

The summary chart, which appears in the appendix of this report, is designed as a quick reference. (For more complete information about a property refer to individual survey forms submitted to the county). An electronic copy (Macintosh Microsoft Word) of the summary chart has been submitted to the Alameda County Planning Department so that the data can be easily searched and updated as more information is gathered. The chart 1) gives the address of a property. If an address was not posted an approximate address was assigned and asterisked for future verification or correction. 2) A field was created for Assessor's Parcel Numbers (APNs) to be supplied later by the County. 3) An estimated date of construction was given. These dates are educated guesses based on stylistic evidence and historic maps. Many of these dates could be refined by archival research. 4) Properties previously evaluated were noted and the surveying agency and date stated. 5) A field labeled "Type" identifies the building type and, where appropriate, architectural style. 6) If the property lies within the boundaries of one of the historic neighborhoods: Four Corners, Ashland, or Haywards Park Homestead, or in the area that was historically Meek's orchards, it is noted. 7) A preliminary evaluation of potential eligibility to the NRHP appears in the seventh column of the chart. The letters N, P, or Y designate: (N) No a property does not appear eligible, (P) the property may Possibly be eligible, or (Y) Yes, the property appears eligible. If a property fell between two designations it was assigned the rating N/P, or P/Y. A final column labeled "Comment" includes miscellaneous information about a property such as the presence of secondary agricultural structures, or alterations.

FINDINGS AND CONCLUSIONS

The record search conducted by Basin Research Associates revealed the following information: 1) One prehistoric archaeological site CA-Ala-6, identified as a former Native American village site, has been recorded within the study area along San Lorenzo Creek near the Southern Pacific Railroad (formerly Central Pacific Railroad) tracks. 2) The San Leandro Indian Adobe Rancheria, an adobe house dating to 1837, was located "on top of the small hill 200 feet west of Foothill Boulevard between 155th and 159th Streets, within the study area. Although no visible evidence of either site remains the probability of below ground archeological resources is high. 3) The Meek Mansion and Carriage House is the only property within the area that is listed on the National Register. The surrounding Meek Estate/Park is a California State Point of Historical Interest. 4) San Lorenzo Pioneer Cemetery is also a California State Point of Historical Interest. 5) A large laurel or bay tree at 9 Lewelling Blvd. has been determined "eligible for local listing only". 6) The San Lorenzo Camp site on Mattox Road and San Lorenzo Creek has not yet been evaluated but may be archaeologically sensitive.

Further historical research is required to identify properties that are eligible for listing on the NRHP. This amount of historic research is beyond the scope of this contract. It should also be noted that The Hayward Area Historical Society museum and archives were closed during this contract while their building underwent seismic rehabilitation.

Only fragments of the area's rich agricultural past remain. There are a significant number of tankhouses and small agricultural building located behind houses. Many of these outbuildings have been converted to residential use. Rodger's farm at 15900 Mission Blvd.

is the most complete extant agricultural cluster within the survey area, although the site is now tightly surrounded by the freeway and post World War II commercial and residential development. The property is slated for demolition. The Meek property on Hampton Road is now a park and retains little reference to its original agricultural setting although a recently planted small cherry orchard will remedy this somewhat. A few greenhouses remain in Ashland where there were many through the 1960s. The area of Haywards Park Homestead retains much of its original character with houses on large lots sited close to the street and large vegetable gardens through the middle of the block.

There are significant clusters of pre 1900 houses in the Four Corners, Ashland, and Haywards Park Homestead neighborhoods. One church remains from that era in the Four Corners area adjacent to the Pioneer Cemetery. Holy Ghost Association Hall on Kent Avenue in Ashland also dates from that period. The 19th century church on Birch Street at Haywards Park Homestead was moved there in 1948 from a downtown Hayward site. Commercial and industrial buildings existed throughout the study during the late 19th and early 20th centuries, however if any remain from that era they have been significantly altered. Cohesive neighborhoods of 1920s bungalows are found throughout Cherryland. Residences include both large and modest single family homes as well as small scale developments for rental and worker housing.

HISTORICAL OVERVIEW

Pre Colonial Period

The study area is located within the territory of the Chochenyo tribelet of the Costanoan Indians (also known as the Ohlone). Their settlement lisyan was located south of San Lorenzo Creek, possibly within the study area. The exact location is not known, but it may be linked to CA-Ala-6, a Native American village site known to be within the study area along San Lorenzo Creek near the Southern Pacific Railroad (formerly Central Pacific Railroad) tracks.

Mission Period

The study area was very likely crossed by the Pedro Fages expedition for Spain in 1772 and certainly by the Juan Bautista de Anza expedition in 1775-76. During the Spanish Period the area was open grazing land of the Mission San Jose, established in 1797 in Fremont. El Camino Real del Norte, the major north-south road of the Mission Period, followed roughly de Anza's trail, very nearly the same route as today's East 14th Street/Mission Boulevard.

An adobe house, the San Leandro Indian Adobe Rancheria, dating to 1837, was built in the study area by an administrator of Mission San Jose, Jose de Jesus Vallejo. The house was located "on top of the small hill 200 feet west of Foothill Boulevard between 155th and 159th Streets".

Rancho Period

In 1821 Mexico declared its independence from Spain and took possession of California. The missions were secularized and their huge land holdings were divided into large Ranchos granted to military men as a reward for service. San Lorenzo Creek formed the border between two large ranchos: Rancho San Leandro, granted to Don Jose Joaquin Estudillo in 1842, on the north and the Rancho San Lorenzo of Francisco Soto (brother in law of Guillermo Castro) on the south. During this period the study area remained open grazing land for cattle with some grain cultivation: wheat for flour, oats for hay, and barley for livestock feed.

American Period

California became a United States territory in 1846 after the Mexican-American War and was granted statehood in 1850. The discovery of gold in 1849 in the foothills of the Sierra led to a sudden population explosion and demand for food which led to the establishment of large grain growing farms as well as fruit and vegetable farms around San Francisco Bay. In 1851 a group of anglos squatted along the fertile banks of San Lorenzo Creek. The settlement named "Squattersville" developed on the northern side of the creek in the Four Corners area. The squatters began growing crops and as early as 1853 grain, fruit, and vegetables were shipped from Robert's Landing at the mouth of San Lorenzo Creek to markets in San Francisco. The San Lorenzo Post Office opened in 1854 in the Four Corners area on what is today Lewelling Boulevard.

Two of the early settlers, John Lewelling and William Meek brought some of the first fruit trees to the area and established large nurseries and orchards. They had extensive land holdings within the study area and built large residences here ca. 1870, Meek on the south side of San Lorenzo Creek and Lewelling on the north. The Meek mansion still stands on Hampton Road. In 1864 the San Lorenzo Pioneer cemetery, still extant in the Four Corners area, was established on land belonging to Meek and Lewelling. Interment records of the cemetery attest to the cultural mix of a largely immigrant population which has continued through the present.

Railroad

By 1865 the "San Francisco, Alameda, and Haywards Railroad" ran through the Meek orchards. This railroad was absorbed in 1869 by the transcontinental Central Pacific Railroad, with San Lorenzo Station located just north of the Pioneer Cemetery. The South Pacific Coast Railroad (1878) ran along the east shore of the bay. By 1910 a third transcontinental railroad, the Western Pacific, would run through the study area parallel and east of the Central Pacific Railroad. Beginning in 1885 refrigerated railroad cars moved perishable fruit grown in the area to markets across the country. This fueled a boom in local fruit production that continued for decades.

Interurban Railroad

During the 1880s and 1890s interurban rail transportation improved. Construction of the "Oakland, San Leandro, and Hayward Electric Railway" began in 1891. By 1892, 14.3 miles of track ran along the County Road (today's East 14th Street / Mission Boulevard)

between Hayward and Oakland. Cars ran every half hour from 5 a.m. until midnight daily. Side-feeder lines ran from Ashland Junction (near 150th St. and Mission Boulevard) along Telegraph (today's Hesperian Boulevard) and along Ashland Avenue to Lewelling Boulevard. Farmlands and orchards were subdivided into town lots of about one acre each. New communities including Ashland and Haywards Park Homestead developed along the line.

San Lorenzo Grove, an eight acre natural park, entered on 2nd St. (today's Tracy St.) in the Four Corners area, became a popular destination for day trips. The park, owned by the electric car line company, included a dance pavilion, picnic grounds, playing fields, concession area and an outdoor bandstand. The park operated until 1917 when it was converted to an apricot orchard.

Automobile Era

The first automobiles appeared in the Bay Area in the late 1890s, and became common after 1910. East 14th Street/Mission Boulevard (then called County Road) was the major north-south road in the East Bay. In 1923 the California legislature passed the gasoline tax, which guaranteed funds for building and maintaining streets and roads. Also in the early 1920s a large area of the Meek orchard was subdivided. An advertisement published in 1923 by the H. W. Meek Estate (Incorporated) offered various real estate options including: 1) "Orchard Home Sites - right on the car line... or one block off the car line..."; 2) "Pear Orchard Pieces - For suburban homes, with full grown trees right in their prime. (The best paying orchard in the Meek Estate)..."; or 3) "Poultry Farm Pieces - with city water, sewers and new turnpike gravel roads within 10 minutes of the car line..."; and 4) "Poultry, Squab and Pigeon Farms - With city water and sewers. Big enough for 1000 hens or 4000 pigeons...". "All of the above properties have city water and city sewers...Street Cars all close by. Wonderful water level for wells..."

Both elaborate homes and modest bungalows were built on mostly half acre sites of what had been Meek's orchards. However, the area retained a strong agricultural character until after the Second World War. Many properties still have tankhouses suggesting irrigation of once large vegetable gardens or small orchards. Some poultry sheds and small barns remain.

Second World War

World War II brought a large number of new people to Alameda County and immediately after the war large scale housing subdivisions replaced most of the remaining tracts of farm land. Only the most intensive agricultural use of the land, nurseries and greenhouses, survived in the area and their numbers have been greatly reduced.

While pre-World War II residential development tended to be houses that differed from one another in size, materials, and architectural style, post World War II residential development can be characterized as large areas densely developed with nearly identical houses on small lots. The post war residential developments are for the most part dependent on the automobile for access to stores, services and employment.

The Nimitz Freeway (Interstate 880) west of the project area opened in the late 1950s. The Route 238 freeway was run through the middle of the study area north of Lewelling Boulevard in the 1960s. This had the greatest effect on the Ashland neighborhood.

Today the project area is for the most part densly developed suburban residential neighborhoods with automobile accessed commercial strips along East 14th Street/Mission Boulevard, Lewelling Boulevard, Foothill Boulevard and to some extent Meekland Avenue. The limited remaining industry in the study area is concentrated on Meekland Avenue with some isolated exceptions.

RECOMMENDATIONS

- We recommend the eventual completion of the following: 1) a comprehensive architectural inventory of the study area which includes an intensive background study, and 2) an archaeological field review of the currently reported site locations.

- Prior to completion of the above we recommend individual assessments of areas that may be impacted by proposed projects.

- Identify the period of significance, and historic character for particular neighborhoods. If development is to occur in the area the Planning Department should review potential projects for their effect on the historic character of the neighborhood as a whole.

- Discourage demolition of structures that embody the history of this area. Agricultural buildings appear particularly vulnerable. If demolition must occur, require thorough photographic and written documentation of properties to be demolished. Specify professional qualifications and require not only documentation of primary structures, but of all structures and landscape elements on the property as well as their relation to one another and the site.

- Establish visual links (such as flowering fruit trees) between historic properties in areas where infill development interrupts the historic fabric.

- Public education programs:

  - Commission short educational booklets that tell the story of a neighborhood (Four Corners, Ashland, Haywards Park Homestead, and Cherryland) identify the character defining elements of structures typical to the neighborhood, and include simple guidelines for correct and incorrect rehabilitation of these historic structures.

  - Develop self-guided tours of the area.

  - Encourage public events that teach the community about the local history and cultural resources.

BIBLIOGRAPHY

Almeida, Carlow, Portuguese Immigrants: the Centennial Story of the Portuguese Union of the State of California, San Leandro: P.U.S.C. 1979.

Baker, Joseph E., Past and Present of Alameda County, The S.J. Clarke Publishing Company, Chicago: 1914.

Bohme, Frederick G. "The Portuguese in California", California Historical Society Quarterly 35 (1956): 233-52.

"A Century of Transportation in the East Bay".

Eden Writers, Hayward...The First 100 Years, Hayward: 1975.

Freeman, Leslie J. , Alameda County Past and Present, 1946.

Gebhard, David, et. al., The Guide to Architecture in San Francisco and Northern California, Peregrine Smith Books, Salt Lake City: 1985.

Graves, Alvin Ray, "Immigrants in Agriculture, the Portuguese Californians 1850-1970s". unpublished dissertation (UCLA Dept. of Geography) 1977.

Hall, Harwood, Eden Township: Its Agriculture, Hayward Area Historical Society, Hayward: 1997.

Halley, William, The Centennial Yearbook of Alameda County, Wm. Halley, Oakland: 1876.

History of Washington Township, Alameda County, California. Compiled and published by the Country Club, The Woman's Club of Washington Township. 1904.

Hoover, Mildred Brooke, et. al.. revised by Douglas E. Kyle, Historic Spots in California, Stanford University Press, Stanford, CA: 1932, revised 1990

Kumar, Puja, "East Fourteenth Street Mission Boulevard, a History", unpublished manuscript. June 1994.

Marciel, Doris, "A History of San Lorenzo", Village Briefs, vol 3-95, May/June 1995.

McAlester, Virginia and Lee McAlester, A Field Guide to American Houses, Alfred A. Knopf, New York, 1997.

Merritt, Frank C. History of Alameda County, California, 2 vols. Chicago S.J. Clarke Pub. Co.: 1928.

Mowry, Emily Yates, "Portuguese Colonies in California: a problem in Race Amalgamation", Out West 33 (Jan 1911) pp. 114-117.

Pap, Leo, The Portuguese-Americans, Twayne Publishers, 1981.

Sandoval, John S., The Ranch of Don Guillermo, A History of Hayward, Castro Valley and San Lorenzo, vol. 1 - the early years: 1843-1890. Mt. Eden Historical, Hayward, CA: 1991.

Soares, Celestino, California and the Portuguese, Lisbon: 1939.

Thompson and West, Offical and Historical Atlas of Alameda County, 1878, reprint 1976.

U.S. Congress, Senate, "Report of the U.S. Immigration Commission". vol. 24, pt. II. Immigrant Farmers in the Western States, Chapter XIV. "Portuguese Farmers about San Leandro, CA. GPO 1911.

U.S. Department of the Interior, National Register Bulletin 15, Washington, D.C.: 1991.

Vaz, August Mark, The Portuguese in California. The Filmer Bros. Press, Taylor & Taylor, San Francisco: 1965.

Wasserman, Fred, CalTrans District 4, Historic Architectural Survey for Proposed Improvements to Interstate 580 Castro Vally and Hayward, CA 04-Ala-580 P.M. 29.6-31.7, 04215 - 410911. 1981.

Wollenberg, Charles, Golden Gate Metropolis, Perspectives on Bay Area History, Institute of Governmental Studies, University of CA, Berkeley, 1985.

Wood, M.W., History of Alameda County, 1883. (reprinted in 1969 by Holmes Book Company, Oakland.

MAPS

Alameda County, Highways Alameda County, California, Alameda County Roads Outside of incorporated Cities, Geo. A. Posey, County Surveyor, Feb. 1933.

Alameda County, Roads and Highways in Alameda County and Vicinity, Compiled by Burnett Hamilton, County Surveyor, 1938.

Allardt, G.F., Official Map of Alameda County, 1874.

State of California, Department of Water Resources, Hayward Quadrangle, 1959.

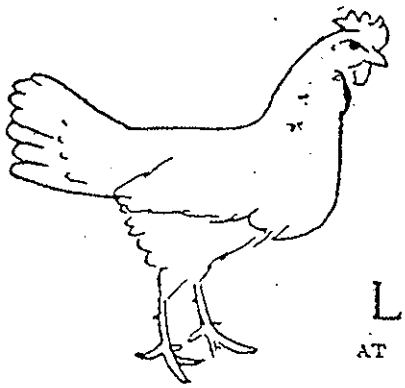
Thompson and West, Offical and Historical Atlas of Alameda County, 1878 (reprint 1976).

U.S. Army Map Service, Hayward Quad, 1946 (1947).

U.S. Department of the Interior. USGS. Hayward(s) Quadrangle, 1899 (reprint 1913), 1915, 1947, 1950, 1959, 1968, 1973, 1980.

U.S. Department of War. U.S. Army Corps of Engineers. Tactical Maps, 1941, 1942.

reprinted in Hall, Harwood, Eden Township: Its Agriculture, Hayward Area Historical Society, 1997. p. 279. (no source identified)



50c A DAY BUYS A LITTLE FARM

AT HAYWARD — EVERYBODY IS GETTING ONE.

POULTRY, SQUAB AND PIGEON FARMS.—With city water and sewers. Big enough for 1000 hens or 4000 pigeons (which are bringing an income of $4.50 a pair a year right now), on terms of $145 down and $15 a month. No interest and no taxes for 1 year.

ORCHARD HOME SITES—Right on the car line with every modern city improvement and big, fine trees for $140 down or one block off the car line for from $85 to $110 down.

APRICOT ORCHARD PRICES—With full grown, full bearing trees, macadamized streets, concrete curbs and gutters, cement sidewalks, city water, sewers, gas, electricity, etc., in the city limits of Hayward for $100 down and $10 a month, plus interest at 6 per cent.

BULB AND NURSERY LAND—Pronounced by expert nursery men as the finest bulb land they ever inspected. (Burbank has repeatedly stated this land cannot be excelled for flowers and berries.) Equipped with city water and sewers, in pieces 100x246, for $145 down and $15 a month; no interest and no taxes for 1 year.

PEACH ORCHARD PIECES—For suburban homes, with full grown trees right in their prime. (The best paying orchard in the Meek Estate) with improvements similar to the above for $120 down and $12 a month, plus interest at 6 per cent.

POULTRY FARM PIECES—With city water, sewers and new turnpike gravel roads, within 10 minutes of the car line. Size 100x246 for $150 down and $15 a month. No interest and no taxes for 1 year.

STRAWBERRY LAND—Now planted to strawberries, yielding over $4000 per acre a year. (Price includes the plants.) The richest berry land in Alameda county. 100x246 ft., pieces, for $150 down and $15 a month. No interest and no taxes for 1 year. City water and sewers.

PRUNE ORCHARD PIECES—With city water and sewers. Close to S. P. depot. Capable of big returns. Full grown trees. Magnificent property. Size 72x308, for $170 down and $17 a month. No interest and no taxes for 1 year.

All of the above properties have city water and city sewers. Schools, Stores, Churches, Theaters, Street Cars all close by. Wonderful water level for wells. Superb climate that strikes the medium between San Francisco fog and the valley heat

YOU BUY DIRECT OF THE OWNERS

H. W. Meek Estate

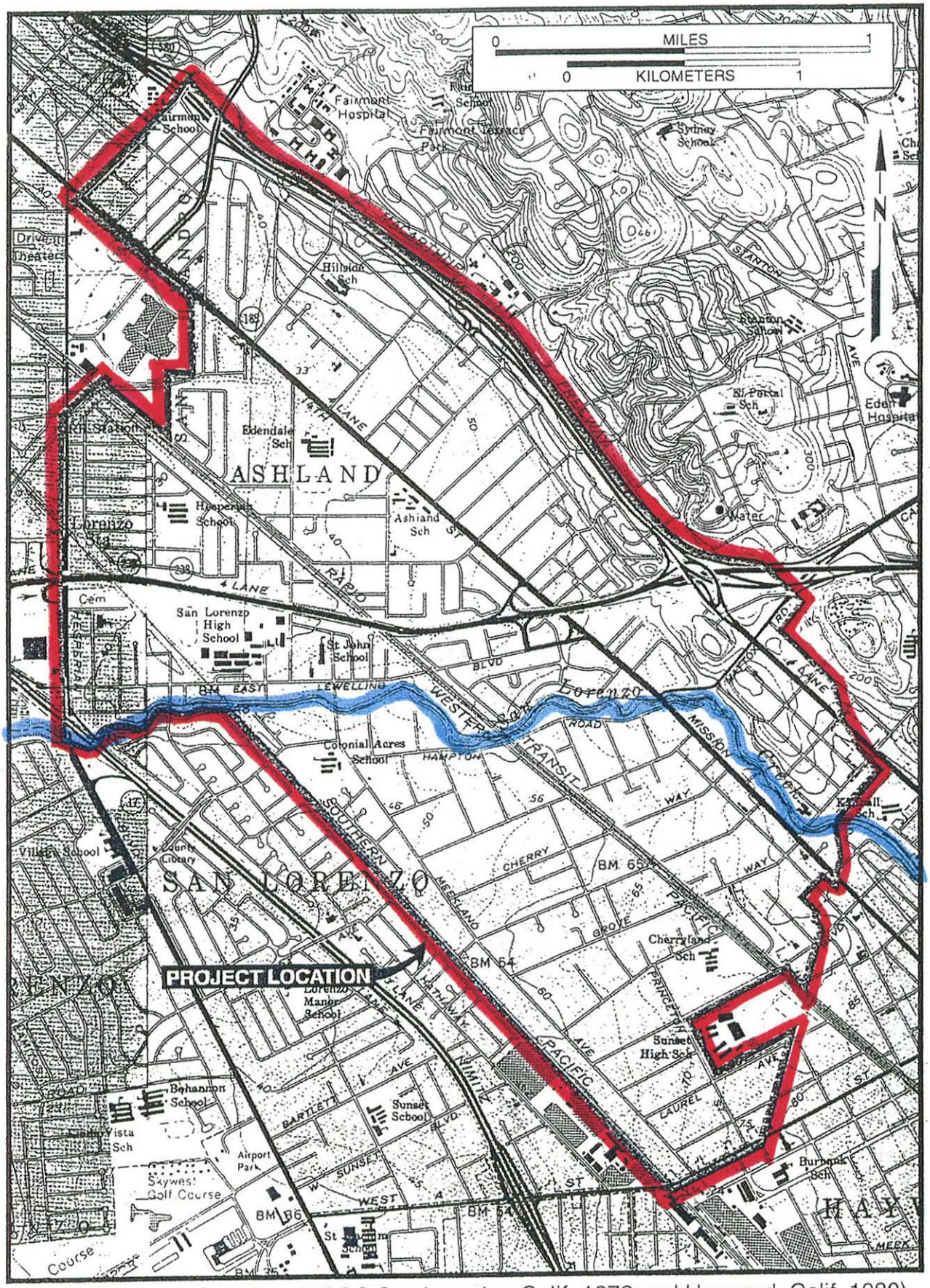
(INCORPORATED)

Main Office, 703 Syndicate Building, Oakland. Phone Oak. 7820
Orchard Sales Office, Castro St. and Sunset Boulevard, Hayward
San Francisco Office, 510 Balboa Building. Phone Sutter 2919

Ad 1923

APPENDICES

PROJECT LOCATION



Project Location (USGS San Leandro, Calif. 1973 and Hayward, Calif. 1980)

SURVEY FORM

Ashland/Cherryland - Alameda County Cultural Resources Survey

APN
Address:

Photo ref: roll # frame #

Historic outbuildings:

- Appears significant yes possibly no
- Integrity yes possibly no

- Architectural description
  - character-defining features

  - height/massing
  - materials

  - roof form
  - doors and windows

- Estimated date of construction:

- Structural conditions
  - original bldg. good fair poor
  - alterations good fair poor in character? yes no
  - additions good fair poor in character? yes no

- Relation of building to its setting
- setback
- contribution to neighborhood character (continuity of streetscape)
- significant landscape features

- Historic Use

- Current Use

Additional Info:

Surveyors:
date:

SURVEY SUMMARY CHART

Address	APN	Est. Constr. Date	Previous Survey	Type	Historic Neighborhood	Prelim. Evaluation	Comment
340 Albion Ave.		1890		One story house.	4 Corners	N	Altered
430 Albion Ave.		1920		Craftsman Bungalow	4 Corners	P	
16064 Ashland Ave.		1890		One story house.	Ashland	P	Other small structures on site.
16120 Ashland Ave.		1920?		Two story structure.	Ashland	N	Nursery office. altered. poor condition.
*16225 Ashland Ave.		1900		One story house.	Ashland	P	*Address approx., none posted. altered. Fire damage. Tankhouse.
16227 Ashland Ave.		1910		One story house.	Ashland	N	altered.
16233 Ashland Ave.		1900		One story house.	Ashland	N	altered.
16239 Ashland Ave.		1948		One story house.	Ashland	P	stone wall
16284 Ashland Ave.		1949		Simple postwar house	Ashland	N	Attached garage
16288 Ashland Ave.		1910		One story house.	Ashland	P	windows replaced.
16294 Ashland Ave.		1890		Queen Anne Cottage	Ashland	Y	Tankhouse.
16298 Ashland Ave.		1900		One story house.	Ashland	Y	
16440 Ashland Ave.		1965		two story community center.	Ashland	N	Moose Lodge. possible cultural significance.
16464 Ashland Ave.		1900		One story house.	Ashland	Y	
16467 Ashland Ave.		1920		Greenhouses	Ashland	Y	Nursery. House not architecturally distinguished.
16500 Ashland Ave.		1920		Greenhouses	Ashland	Y	Nursery. Japanese house and garden ca, 1965.
16600 Ashland Ave.		1949		Two story Convent	Ashland	Y	St. John's Church property. See also 264 E. Lewelling.
16663 Ashland Ave.		1925		One story bungalow.	Ashland	P	Spanish Colonial Revival.
972 Bevilaqua St.		1949	Caltrans 1981	One story stucco tract house		N	Prototype of neighborhood.
20800 Birch St.		1949		one story house		N	Important site, merits further research. (At Mattox Rd.)
20844 Birch St.		1920	Caltrans 1981	one story house		N	
20997 Birch St.		1890		Queen Anne cottage	Haywards Park Homestead	P	altered.
21455 Birch St.		1865		Colonial Revival Church.	Haywards Park Homestead	Y	"Pioneer Chapel" Structure moved ca. 1948
21455 Birch St.		1948		Colonial Revival Church complex	Haywards Park Homestead	P	Eden United Church of Christ
254-262 Blossom Way		1920		two story "duplex"	Meek Orchards	N	altered.

269 Blossom Way		1920		Craftsman Bungalow.	Meek Orchards	N	altered. Tankhouse.
402 Blossom Way		1920		Craftsman Bungalow.	Meek Orchards	N	altered. Tankhouse.
411 Blossom Way		1920		one story house	Meek Orchards	P	Colonial Revival features
514 Blossom Way		1920		Agricultural Bldgs.	Meek Orchards	P	poor condition. chicken shed.
539 Blossom Way		1920		Craftsman Bungalow	Meek Orchards	P	
632 Blossom Way		1920		Craftsman Bungalow	Meek Orchards	P	altered.
650-688 Blossom Way		1920		Mission Revival Commercial	Meek Orchards	P	altered. at railroad.
725 Blossom Way		1920		Craftsman Bungalow	Meek Orchards	N	altered.
773 Blossom Way		1920		Craftsman Bungalow	Meek Orchards	Y	Tankhouse.
774 Blossom Way		1920		Craftsman Bungalow	Meek Orchards	N	Poor condition.
*820 Blossom Way		1940		Two story Period Revival house.	Meek Orchards	P/N	*Address approx., none posted. Windows replaced.
824 Blossom Way		1920		Craftsman Bungalow	Meek Orchards	P	Porch enclosed. Tankhouse.
915 Blossom Way		1920		Craftsman Bungalow	Meek Orchards	P	Garage contemporary with house.
952 Blossom Way		1920		English cottage	Meek Orchards	P	
989 Blossom Way		1920		Craftsman Bungalow	Meek Orchards	P	poor condition.
17370 Boston Rd.		1920		Craftsman Bungalow	Meek Orchards	P	Across road from Meek Mansion
20586 Cambridge Ave.		1920		Craftsman / Prairie Style Bungalow	Meek Orchards	P	
535 Cherry Way		1920		Spanish Colonial Revival bungalow	Meek Orchards	P	
546 Cherry Way		1920		stucco Craftsman Bungalow	Meek Orchards	P	Garage contemporary with house.
566 Cherry Way		1920		Spanish Colonial Revival bungalow	Meek Orchards	P	Large attached garage (probably added later).
567-569 Cherry Way		1920		Craftsman Bungalow	Meek Orchards	P	siding altered. Tankhouse.
698 Cherry Way		1920		Craftsman Bungalow	Meek Orchards	P/N	altered. rear lot developed.
741 Cherry Way		1920		Craftsman Bungalow	Meek Orchards	P	Tankhouse.
758 Cherry Way		1920		Two story Craftsman Bungalow	Meek Orchards	P	altered. rear lot developed.
802 Cherry Way		1935		One story Tudor Revival house	Meek Orchards	P	
838 Cherry Way		1920		Craftsman Bungalow	Meek Orchards	P	altered. Tankhouse.
839 Cherry Way		1920		Craftsman Bungalow	Meek Orchards	P	altered.
851 Cherry Way		1975?		Two story house	Meek Orchards	N	May be altered older house. Tankhouse. Needs further research.
858 Cherry Way		1920		Craftsman Bungalow	Meek Orchards	P	windows replaced.

Cherry Way				Street Trees	Meek Orchards	Y	Row of street trees.
190 College St.		1949		one story house	Four Corners	N	altered. attached garage.
934 Delano St.		1890		One story, central hall house.	Ashland	P	altered
949 Delano St.		1950		Postwar "duplex" tract	Ashland	P	Prototype
1074 Delano St.		1890		One story, central hall house.	Ashland	Y	"Portuguese Garden"
1088 Delano St.		1890		One story, central hall house.	Ashland	P	Altered house. Barn. Historic garage.
710 Elgin St.		1969		Modern Community Center		P	Eden Japanese Community Center. Culturally significant
750 Elgin St.		1950		One story apartments		N	
844 Elgin St.		1945		One story Moderne house.		P	Formal Japanese Garden
854 Elgin St.		1920		Craftsman Bungalow	Ashland	P	Japanese nursery. rear house.
887 Elgin St.		1920		Stucco bungalow	Ashland	P	May be altered central hall house. Eclectic garden.
895 Elgin St.		1920		One story house	Ashland	N	siding altered.
964-968 Elgin St.		1945		One story duplexes	Ashland	P	row of similar duplexes
981 Elgin St.		1890		one story asymmetrical house	Ashland	P	altered.
983 Elgin St.		1920		Craftsman Bungalow	Ashland	P	small rear cottage.
1063 Elgin St.		1880		Gothic Revival House	Ashland	Y	
1065 Elgin St.		1890		one story house	Ashland	P	abandoned, poor condition. Address approx., none posted.
1078 Elgin St.		1920		Eccentric stucco Craftsman Bungalow	Ashland	P	altered. Small barn.
1098 Elgin St.		1890		Queen Anne Cottage	Ashland	P	altered roof.
1106 Elgin St.		1890		Queen Anne Cottage	Ashland	P	altered.
17318 Esteban Street		1945	Caltrans 1981	One story house		N	attached garage
17359 Esteban Street		1949	Caltrans 1981	One story house		N	attached garage
17380 Esteban Street		1948	Caltrans 1981	One story house		N	attached garage
747 Galway Dr.		1950		Post war tract house		P	prototype of neighborhood. altered attached garage
786 Galway Dr.		1890		central hall house.	Ashland	N	altered.
1144 Georgean St.		1955	Caltrans 1981	one story house		N	attached garage
216-228 Grove Way		1940		two story Period Revival house	Meek Orchards	P	rear lot developed
*250 Grove Way		1920		Craftsman Bungalow	Meek Orchards	P	*Address approx., none posted. Tankhouse

							and agricultural structure.
265 Grove Way		1920		Craftsman Bungalow	Meek Orchards	P	windows replaced.
285 Grove Way		1920		Craftsman Bungalow	Meek Orchards	P/N	possibly altered.
294 Grove Way		1920		Craftsman Bungalow	Meek Orchards	P	altered. Tankhouse and fruit drying structure.
360 Grove Way		1920		Craftsman Bungalow	Meek Orchards	P/N	altered
373 Grove Way		1920		Stucco Craftsman Bungalow	Meek Orchards	P	enclosed porch
395 Grove Way		1920		Spanish Colonial Revival Bungalow	Meek Orchards	P	window replaced
396 Grove Way		1920		Stucco Craftsman Bungalow	Meek Orchards	N	altered
435 Grove Way		1920		Craftsman Bungalow	Meek Orchards	N	windows altered. addition at rear.
438 Grove Way		1920		eccentric Stucco Bungalow	Meek Orchards	P	
448 Grove Way		1920		Craftsman Bungalow	Meek Orchards	N	Windows altered. Tankhouse.
475 Grove Way		1925		One story Period Revival house	Meek Orchards	P	
486 Grove Way		1920		Craftsman Bungalow	Meek Orchards	N	altered.
493 Grove Way		1925		One story Period Revival house	Meek Orchards	P	
536 Grove Way		1930		Large two story Spanish Colonial Revival house.	Meek Orchards	Y	
564 Grove Way		1920		Large two story house.	Meek Orchards	Y	Prairie Style features
636 Grove Way		1915		Large two story Mediterranean Revival house	Meek Orchards	Y	
641 Grove Way		1920		one story stucco bungalow	Meek Orchards	P	
657 Grove Way		1920		Craftsman Bungalow	Meek Orchards	P/N	Addition at rear.
689 Grove Way		1920		one story stucco bungalow	Meek Orchards	P	may be altered.
711 Grove Way		1920		Craftsman Bungalow	Meek Orchards	P	
729 Grove Way		1920		Craftsman Bungalow	Meek Orchards	P	
730 Grove Way		1920		Craftsman Bungalow	Meek Orchards	P	Tankhouse.
752 Grove Way		1920		one story stucco bungalow	Meek Orchards	P	Porch partially glazed.

759 Grove Way		1920		one story stucco bungalow	Meek Orchards	P	
770 Grove Way		1930		one story revival house	Meek Orchards	P	
771 Grove Way		1930		Spanish Colonial Revival bungalow	Meek Orchards	P	
*780 Grove Way		1925		Spanish Colonial Revival bungalow	Meek Orchards	P	*Address approx., none posted.
921 Grove Way		1920		English cottage stucco bungalow	Meek Orchards	P	window openings possibly altered.
Grove Way Bridge		1915		Reinforced concrete bridge	Haywards Park Homesteads	Y	bridges San Lorenzo Creek at Mission Blvd.
1015 Grove Way		1950		Brick industrial bldg.	Haywards Park Homesteads	P	garage.
1095 Grove Way		1920		Craftsman Bungalow	Haywards Park Homesteads	P	possibly altered.
1129 Grove Way		1880		one story Italianate house	Haywards Park Homesteads	Y	some alterations over time.
1145 Grove Way		1920		Stucco Craftsman Bungalow	Haywards Park Homesteads	P	
1259 Grove Way		1890		one story house	Haywards Park Homesteads	P	altered.
145 Hampton Ave.		1925		one story house	Meek Orchards	P	
161 Hampton Ave.		1920		one story house	Meek Orchards	N	altered.
171 Hampton Ave.		1930		Mission Revival Bungalow	Meek Orchards	P	
240 Hampton Ave.		1869		Large Italianate house and carriage house	Meek Orchards	Y	Meek Mansion and Carriage House. National Register
*251 Hampton Ave.		1920		Craftsman Bungalow	Meek Orchards	P	*Address approx., none posted.
278 Hampton Ave.		1900		Large one story house	Meek Orchards	P	Altered.
319 Hampton Ave.		1925		one story house	Meek Orchards	P/N	alum. windows
377 Hampton Ave.		1925		one story house	Meek Orchards	P/N	altered porch.
Hampton Ave.				Street trees	Meek Orchards	P/Y	Street trees
451 Hampton Ave.		1920		Craftsman Bungalow	Meek Orchards	P/N	Second story addition. small pump house?
*501 Hampton Ave.		1920		Spanish Colonial Revival bungalow	Meek Orchards	P	*Address approx., none posted.
646 Hampton Ave.		1910		one story house	Meek Orchards	P	small cottage at rear, contemporary with house.
670 Hampton Ave.		1920		English cottage	Meek Orchards	P	small cottage at rear

				bungalow			
688 Hampton Ave.		1930		Mediterranean Revival house	Meek Orchards	P	
708 Hampton Ave.		1920		Stucco Craftsman Bungalow	Meek Orchards	P	Enclosed porch. agricultural building at rear.
794 Hampton Ave.		1940		large Period Revival house	Meek Orchards	P	small cottage at rear
938-942 Hampton Ave.		1945		Moderne duplex	Meek Orchards	P	
21129 Haviland Ave.		1920		Craftsman Bungalow	Meek Orchards	N	altered.
*15400 Hesperian Blvd.		1864		Cemetery	4 corners	Y	*Address approx., none posted. San Lorenzo Pioneer Cemetery; CA. Point of Historical Interest.
15542 Hesperian Blvd.		1900		one story house with second story addition.	4 corners	N	altered. Tankhouse.
663 Kendall St.		1880	Caltrans 1981	altered two story farmhouse.		N	altered former farmhouse.
706 Kendall St.		1950	Caltrans 1981	one story tract house		N	
16331 Kent Ave		1940		one story house	Ashland	P	
*16331 Kent Ave		1890		Large barn	Ashland	Y	*Address approx., none posted. Barn.
*16341 Kent Ave		1890		Queen Anne cottage	Ashland	Y	*Address approx., none posted.
16400 - 16406 Kent Ave.		1945		apartment block	Ashland	P	small addition at northeast.
*16410 Kent Ave		1900		one story house	Ashland	P	*Address approx., none posted.
16412 Kent Ave		1920(?)		several houses	Ashland	P	access limited. requires further research.
16418 Kent Ave		1920		Craftsman Bungalow	Ashland	P/N	porch altered.
*16440 Kent Ave		1920		Craftsman Bungalow	Ashland	N	*Address approx., none posted. porch altered.
16450 Kent Ave		1920		Greenhouses	Ashland	P	nursery.
16473 Kent Ave		1890(?)		small industrial	Ashland	P/N	altered. requires further research.
16490 Kent Ave		1890		Religious complex	Ashland	Y	Holy Ghost Association Hall. Additions. Culturally significant, Portuguese.
16497 Kent Ave		1920		Craftsman Bungalow	Ashland	N	altered. Spanish Colonial Revival features. Tankhouse.
16500 Kent Ave		1940		one story house	Ashland	P/N	
16503 Kent Ave		1890		one story house	Ashland	Y	
16520 Kent Ave		1930		stucco bungalow	Ashland	P	Spanish Colonial Revival features.
16540 Kent Ave		1890		one story house	Ashland	P	windows altered. Barn.
16560 Kent Ave		1890		one story house	Ashland	Y	

16561 Kent Ave		1890		one story house	Ashland	Y	
16626 - 16638 Kent Ave.		1945		"bungalow court"	Ashland	P	Prototype of deep lot development
16640 Kent Ave		1910(?)		one story house	Ashland	P	visually obscured, needs further research.
17237 Langton Way		1946	Caltrans 1981	stucco tract house		N	
240 - 244 Laurel Ave.		1900		one story house(s)		P	Two newer small houses built between historic house and street.
50 East Lewelling Blvd.		1960		School	4 Corners	P	San Lorenzo High School
9 East Lewelling Blvd.				Large laurel or bay Tree	4 Corners	Y	"Eligible for local listing only".
75-77 East Lewelling Blvd.		1920		Craftsman Bungalow		P/N	Integrity compromised by commercial bldg. at street.
177 East Lewelling Blvd.		1900/ 1950		one story stucco house; older small wood structures at rear.		P	several small bldgs. on site (now residential, formerly agricultural?)
181 East Lewelling Blvd.		1900/ 1940		one story stucco house; older small wood structures at rear.		P	several small bldgs. on site (now residential, formerly agricultural?)
195 East Lewelling Blvd.		1900/ 1920		Craftsman Bungalow; older small wood structures at rear.		P	several small bldgs. on site (now residential, formerly agricultural?)
*205 East Lewelling Blvd.		1947		Eccentric Period Revival house		P	*Address approx., none posted.
264 East Lewelling Blvd.		1925-1955		Mediterranean Revival religious complex		Y	St. John's Catholic Church, school, gym., rectory. See also 16600 Ashland Ave.
*405 East Lewelling Blvd.		1920		one story house		N	*Address approx., none posted. Windows altered.
407 East Lewelling Blvd.		1910		one story house		P	
732 East Lewelling Blvd.		1950	Caltrans 1981	tract house		N	
130 West Lewelling Blvd.		1880		two story Italianate	4 Corners	Y/P	altered.
*240 West Lewelling Blvd.		1920		Stucco Craftsman Bungalow	4 Corners	P	*Address approx., none posted.
254 West Lewelling		1890		one story house	4 Corners	Y	

Blvd.							
*310 West Lewelling Blvd.		1910		one story house	4 Corners	N	*Address approx., none posted. Altered.
330 West Lewelling Blvd.		1910		one story house	4 Corners	N	altered. commercial use.
340 West Lewelling Blvd.		1920		Craftsman Bungalow	4 Corners	P	windows replaced.
418 West Lewelling Blvd.		1920		Stucco Craftsman Bungalow	4 Corners	P	altered. commercial use.
20874 Locust St		1916	Caltrans 1981	Craftsman Bungalow	Haywards Park Homesteads	N	altered
*21301 Locust St		1890		one story house on high basement	Haywards Park Homesteads	P/N	*Address approx., none posted. altered simple Queen Anne cottage.
*21315 Locust St		1890?		one story house on high basement	Haywards Park Homesteads	N	*Address approx., none posted. altered. Tankhouse
21408 Locust St		1890		one story house	Haywards Park Homesteads	P	
21413 Locust St		1890		one story house	Haywards Park Homesteads	P	Windows altered.
21415 Locust St		1890		one story house	Haywards Park Homesteads	P/N	altered.
21437 Locust St		1940		one story house	Haywards Park Homesteads	P	
21459 Locust St		1890		Queen Anne cottage	Haywards Park Homesteads	Y	
16530 Los Banos St.		1920		Craftsman Bungalow		N	Windows altered. small wood residential structure at rear.
16790 Los Banos St.		1910		one story house		P	
17355 Los Banos St.		1950	Caltrans 1981	one story stucco house		N	
17369 Los Banos St.		1948	Caltrans 1981	stucco house		N	
17370 Los Banos St.		1975	Caltrans 1981	modern house		N	
16985 Los Reyes Ave.		1949	Caltrans 1981	one story tract house		N	
18630 Lowell Ave.		1920		eccentric Mediterranean Revival house		P	
18846 Lowell Ave.		1890(?)		"Queen Anne cottage"		N	altered
Marcella Street				one story houses		P	land settlement pattern

20693 Marion St.		1928	Caltrans 1981	bungalow		N	
20695 Marion St.		1928	Caltrans 1981	house		N	
20739 Marion St.		1918	Caltrans 1981	bungalow		N	
20743 Marion St.		1928	Caltrans 1981	one-story house		N	
20745 Marion St.		1925	Caltrans 1981	one-story house		N	
20781 Marion St.		1922	Caltrans 1981	bungalow		N	
*20785 Marion St.		ca. 1921	Caltrans 1981	Period Revival house		N	*Address approx.
15960 Mateo St.		1910		one-story house		N	altered.
1164 - 1176 Mattox Rd.		1920 - 1956	Caltrans 1981	one-story house / workshop		N	
1191 Mattox Rd.		1860	Caltrans 1981	one-story house		P/N	altered
1230 Mattox Rd.		1945	Caltrans 1981	house		N	
1282 Mattox Rd.		1961	Caltrans 1981	modern apartment bldg.		N	
15515 Maubert Ave.		1920		one story house		P	altered
840 Medford Ave.		1920		one story house	Meek Orchards	P	Prairie Style features.
19356 Meekland Ave.		1950		small industrial building	Meek Orchards	P	welding shop. highway sign.
*22217 Meekland Av		1940		Art Deco commercial building.	Meek Orchards	P	*Address approx., none posted. openings altered.
*22319 Meekland Av		unknown		adobe house	Meek Orchards	P	siding now covers three sides of house.
22306 Meekland Ave.		1920		commercial / residence	Meek Orchards	P/N	altered. commercial and residential use. further research required.
16992 Melody Way		1949	Caltrans 1981	one-story house		N	
19100 - 19610 Mission Blvd.		1894	Caltrans 1981	agricultural complex		P	Rodgers Farm. agricultural complex. altered.
*19501 Mission Blvd.		1940		Streamline commercial		P	*Address approx., none posted. highway sign.
*20101 Mission Blvd.		1920		Mediterranean Revival PG&E sub station		P	*Address approx., none posted
1501 Mono Ave		1920		Craftsman Bungalow		P/N	poor condition
1515 Mono Ave		1920		Craftsman Bungalow		P/N	altered.
21123 Montgomery Ave.		1930		Spanish Colonial Revival house	Meek Orchards	P	windows replaced.
*21136 Montgomery Ave.		1925		Spanish Colonial Revival bungalow	Meek Orchards	P	*Address approx., none posted
21239 Montgomery Ave.		1920		one story stucco house	Meek Orchards	P	Prairie Style features
21270 Montgomery		1920		one story stucco	Meek Orchards	P	Craftsman features

Ave.				house			
21308 Montgomery Ave.		1920		Craftsman Bungalow	Meek Orchards	P	porch enclosed
21348 Montgomery Ave.		1920		Stucco Craftsman Bungalow	Meek Orchards	P	
21370 Montgomery Ave.		1920		Stucco Craftsman Bungalow	Meek Orchards	P	windows replaced
21409 Montgomery Ave.		1920		Craftsman Bungalow	Meek Orchards	P	windows replaced
21451 Montgomery Ave.		1920		Craftsman Bungalow	Meek Orchards	P	some windows replaced
21469 Montgomery Ave.		1925		Period Revival house	Meek Orchards	P	
Montgomery Ave.				Row of large street trees.	Meek Orchards	Y	West side of street.
*21336 Ocean View Dr.		1890		one story house	Haywards Park Homesteads	P	*Address approx., none posted. altered window opening.
21383 Ocean View Dr.		1915		two story house	Haywards Park Homesteads	P	some alterations. Craftsman features
21422 Ocean View Dr.		1915		Craftsman Bungalow	Haywards Park Homesteads	P	enclosed porch. Tankhouse.
*21424 Ocean View Dr.		1890		one story house	Haywards Park Homesteads	P	*Address approx., none posted. siding altered. Tankhouse.
21439 Ocean View Dr.		1890		Queen Anne Cottage	Haywards Park Homesteads	Y	
1426 Paharo Ct.		1920		one story house		P	
1565 Plaza Dr.		1880		one story house		Y	
21798 Princeton St.		1925		Period Revival house.	Meek Orchards	P	porch appears altered. small cottage at rear.
16005 Rochi Ct		1920		Craftsman "bungalow court"		P	windows replaced. Merits further research.
St. James Ct.		1920		Street of similar Mediterranean Revival bungalows	Meek Orchards	Y	potential district? streetlight standards.
1069 Santa Ana St.		1955		postwar tract house		P/N	prototype of neighborhood
1148 Santa Ana St.		1955		postwar tract house		P	prototype of neighborhood
1740 Santa Cruz St.		1948	Caltrans 1981	two-story house		N	
1751 Santa Cruz St.		1950	Caltrans 1981	two-story house		N	
17020 Santa Fe St.		1938	Caltrans 1981	one-story house		N	
17028 Santa Fe St.		1940	Caltrans 1981	one-story house		N	

17281 Santa Fe St.		1946	Caltrans 1981	house		N	
17287 Santa Fe St.		1946	Caltrans 1981	house		N	
15536 Tracy St.		1890		Victorian cottage	4 Corners	Y	possibly San Lorenzo Grove caretaker's house
15630 Tracy St.		1880		Gothic Revival house	4 Corners	Y	some alterations.
*15651 Tracy St.		1915		Shingle Style house	4 Corners	Y	*Address approx., none posted
15507 Usher St		1875		church	4 Corners	Y	large addition. originally Christian Union Society Church, now First Southern Baptist Church.
15525 Usher St		1890		Queen Anne cottage	4 Corners	Y	
15530 Usher St		1890		one-story house with attic	4 Corners	P	
21746 - 21764 Vallejo St.		1910 / 1940		"bungalow court"	Meek Orchards	P	Older cottage at rear (1910?).
21070 Western Blvd.		1920		one-story house	Meek Orchards	P	Tankhouse
1520 - 152nd St		1900		one-story house		P	requires further research.
1635 - 162nd St		1920		Stucco Craftsman Bungalow		P	
1645 - 162nd St		1940		one story house (original)		P/N	Tankhouse. second floor addition. alum. windows.
1660 - 162nd St		1920		Craftsman Bungalow		P	
1706 - 162nd St		1905		one story "classic box"		P	early garage.
1403 - 164th St		1920		Craftsman Bungalow		P	enclosed porch
1414 - 164th St		1920		Craftsman Bungalow		P	Tankhouse, barn shed.
1450 - 166th St		1920		Craftsman Bungalow		P	porch altered.
1502 - 166th St		1900		one story house		P	
1511 - 166th St		1920		Craftsman Bungalow		P	
1596 - 166th St		1900		one story house		P	Diamond Temple. requires further research. May have cultural significance.
1616 - 167th St		1890		one story house		Y/P	one room wide. alum. windows.
1415 - 168th St		1930		Period Revival house		P	
1421 - 168th St		1920		Craftsman Bungalow		P	
1424 - 168th St		1925		Large Period Revival house		Y	1890 (?) carriage house. large trees on site.
1427 - 168th St		1920		Craftsman Bungalow		P/N	replacement windows. altered porch
1535 , 1537 - 168th St		1910		one story house		P	
1590 - 168th St		1905		one story "Classic		P/N	poor condition. enclosed porch.

				Box" house			
1450 - 172nd St		1937	Caltrans 1981	Period Revival house		N	
1455 - 172nd St		1948	Caltrans 1981	one-story house		N	
1460 - 172nd St		1938	Caltrans 1981	Spanish Revival house		N	
1461 - 172nd St		1946	Caltrans 1981	one-story house		N	
1478 - 172nd St		1946	Caltrans 1981	one-story house		N	
1498 - 172nd St		1938	Caltrans 1981	one-story house		N	
1525 - 173rd St		1948	Caltrans 1981	one-story house		N	
1595 - 173rd St		1950	Caltrans 1981	one-story house		N	
1990 - 173rd St		1952	Caltrans 1981	one-story house		N	

NATIONAL REGISTER CRITERIA

II. THE NATIONAL REGISTER CRITERIA FOR EVALUATION

CRITERIA FOR EVALUATION[3]

The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

- That are associated with events that have made a significant contribution to the broad patterns of our history; or
- That are associated with the lives of persons significant in our past; or
- That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- That have yielded, or may be likely to yield, information important in prehistory or history.

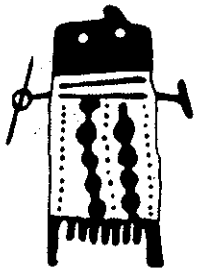
CRITERIA CONSIDERATIONS

Ordinarily cemeteries, birthplaces, or graves of historical figures, properties owned by religious institutions or used for religious purposes, structures that have been moved from their original locations, reconstructed historic buildings, properties primarily commemorative in nature, and properties that have achieved significance within the past 50 years shall not be considered eligible for the National Register. However, such properties *will qualify* if they are integral parts of districts that do meet the criteria or if they fall within the following categories:

- A religious property deriving primary significance from architectural or artistic distinction or historical importance; or
- A building or structure removed from its original location but which is significant primarily for architectural value, or which is the surviving structure most importantly associated with a historic person or event; or
- A birthplace or grave of a historical figure of outstanding importance if there is no appropriate site or building directly associated with his productive life; or
- A cemetery which derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events; or
- A reconstructed building when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other building or structure with the same association has survived; or
- A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own exceptional significance; or
- A property achieving significance within the past 50 years if it is of exceptional importance.

[3]The Criteria for Evaluation are found in the *Code of Federal Regulations, Title 36, Part 60,* and are reprinted here in full.

BASIN RESEARCH REPORT



October 9, 1997

BASIN
RESEARCH
ASSOCIATES

1933 DAVIS STREET
SUITE 210
SAN LEANDRO, CA 94577
VOICE (510) 430-8441
FAX (510) 430-8443

Ms. Mary Hardy
Siegel & Strain Architects
1295 59th Street
Emeryville, CA 94608

RE: Cultural Resources Literature and Records Review
Proposed Alameda County Redevelopment Study Area
Unincorporated Areas Adjacent to and Small Portions of the
Cities of San Leandro and Hayward, Alameda County

Dear Ms. Hardy,

Please let this letter stand as our cultural resources assessment report for the Proposed Redevelopment Study Area located in unincorporated areas adjacent to and including small portions of the Cities of San Leandro and Hayward, Alameda County, California.

This assessment was requested as part of a preliminary survey of cultural resources within the Ashland and Cherryland Districts of Alameda. This report provides the results of a records search, a limited review of pertinent literature, and appropriate management recommendations. An archaeological field survey and architectural review of the buildings and other structures in the project area was not undertaken by BASIN.

PROJECT LOCATION AND DESCRIPTION

The irregularly shaped study area is bounded by 159th Avenue on the northeast, Interstate Highway 580 (MacArthur Freeway), the State Route 238/Interstate Highway 580 Interchange and Foothill Boulevard on the east, by 14th Street expanding as far west as the City of San Leandro city limits just west of Hesperian Boulevard, and along San Lorenzo Creek east to along the BART/rail road tracks to as far south as A Street, City of Hayward (Siegel and Strain Architects 1997).

The study area includes small portions of the City of San Leandro and Hayward and the unincorporated areas between the two cities known as Ashland, San Lorenzo, and Cherryland (T 3S, R 2W, United States Geological Survey [hereafter USGS], Hayward, Calif.[ornia], and San Leandro, Calif.[ornia]7.5' quadrangle topographic map, 1980 unsectioned) [Figs. 1-2].

RESEARCH SOURCES CONSULTED AND RECORDS SEARCH RESULTS

A prehistoric and historic site record and literature search was conducted by the California Historical Resources File System, Northwest Information Center, Sonoma State University, Rohnert Park (CHRFS/NWIC File No. 97-379 and 97-401). Reference material from the Bancroft Library, University of California, Berkeley and Basin Research Associates, San

Leandro was also consulted.[1]

One prehistoric archaeological site, CA-Ala-6, has been recorded along San Lorenzo Creek within the study area (Nelson 1909, ca. 1910a-b).

Ten cultural resources compliance reports include the study area or are adjacent to the study area (Holman and Chavez 1976; Banks and Fredrickson 1977; Environmental Science Associates, Inc. (ESA) 1977; Charles Hall Page & Associates, Inc. 1977a-b; Watts and Mayfield 198; Weigel 1984; Fitzgerald 1986; Baker and Shoup 1989; and, Dowdall 1992).

Only one architectural resource has been identified as significant based on national, state or local[2] criteria. The Meek Mansion and Carriage House located at 240 Hampton Road, Hayward is listed on the National Register of Historic Places (CAL/OHP v.d.c; USNPS 1997) and is also listed on the *California Inventory of Historic Resources* (CAL/OHP 1976:33, 223). Information concerning the five properties located in the study area on the State of California *Historic Properties Directory* (CAL/OHP v.d.c) are presented in the Findings and Attachments:List 1.

NATIVE AMERICAN RESOURCES

PREHISTORIC

The study area which includes San Lorenzo Creek is in an area of "extreme" and "moderate" sensitivity for archaeological resources (Quaternary Research Group 1976).

One prehistoric site, CA-Ala-6, has been recorded within the study area. This site was located along San Lorenzo Creek to the west of the Southern Pacific Railroad (SPRR) tracks by Nelson (1909, 1910a) although current records place it at the SPRR tracks (CHRIS/NWIC File No. 97-397 and 97-401). The site was identified as a former village site and listed as a mound "disappeared" by Nelson (909, 1910a-b). No additional information is available on the current status of the resource.

ETHNOGRAPHIC

The project parcel is situated within the territory of the *Chochenyo* tribelet of the Costanoan Indians (also known as the *Ohlone*; Levy 1978:485; Galvan 1967/68; Margolin 1978). The closest known tribelet settlement *lisyan* was located south of San Lorenzo Creek (Levy 1978:485, Fig. 1, #5). The exact location of this settlement is not known and Kroeber (1925:465) does not illustrate any villages/settlements within the study area.

Current research by Milliken (1995:228, Map 4) places the Hayward and Castro Valley areas and San Lorenzo watershed within the *Yrgin* tribal area who seem to have been of the same group as the *Jalquin*.

Historic accounts of the distribution of the tribelets and villages in the 1770s-1790s[3] suggest that

1. Specialized listings consulted include the National Register of Historic Places (American Association for State and Local History, National Park Service and National Conference of State Historic Preservation Officers (AASLH/NPS/NCSHPO 1991); United States National Park Service (USNPS 1997); California Historical Landmarks (CAL/OHP 1990b) and updates (CAL/OHP v.d.a-c, 1990a, 1991-1997); the *California History Plan* (CAL/OHP 1973b); *California Inventory of Historic Resources* (CAL/OHP 1976); *Five Views: An Ethnic Sites Survey for California* (CAL/OHP 1988); and, *Historic Civil Engineering Landmarks of San Francisco and Northern California* (American Society of Civil Engineers 1977). For the most part, local inventories, lists, and historic maps have not been consulted for this report but will be reviewed by Ms. Mary Hard, Siegel & Strain Architects.

2. Only the San Leandro General Plan list was consulted for this initial study (San Leandro 1989:IV-67-69, Fig. IV-5).

the Native Americans may have had not only a village site along San Lorenzo Creek, but also temporary camps in the study area. The Christian village of *R. de San Lorenzo* (presumably along San Lorenzo Creek) is illustrated on a topographic map of the Mission San Jose (Bennyhoff 1977:166-167; Maps 4a-b).[4]

HISTORIC ERA RESOURCES

HISPANIC PERIOD

San Lorenzo Creek was viewed by Father Juan Crespi during the Pedro Fages expedition in 1772 and later in 1775/1776 by Father Pedro Font of the Juan Bautista de Anza expedition[5] (Gudde 1969:288; Mosier and Mosier 1986:78).

During the Mexican Period the project was situated within three ranchos, *Rancho San Leandro*, *Rancho San Lorenzo* (Soto), and *Rancho San Lorenzo* (Castro) (Hendry and Bowman 1940:597-607; Beck and Haase 1974:#30).

The San Leandro Indian Adobe Rancheria Building site dating to 1837 was located in the northern part of the study area.[6] This structure was located ". . . on top of the small hill 200 feet west of Foothill Boulevard between 155th and 159th Streets. . . " overlapping the boundary line between *Rancho San Leandro* and *San Lorenzo* (Castro) (Hendry and Bowman 1940:600). This adobe house appears to have been built by Jose de Jesus Vallejo, administrator of the Mission San Jose (now located within the City of Fremont) (Hendry and Bowman 1940:601).

The remainder of the adobe dwellings associated with the ranchos were situated north and south of the study area (Hendry and Bowman 1940:Alameda County map).

AMERICAN PERIOD

An extensive review of sources was not undertaken for this literature and records review. No American era archaeological sites have been recorded in or adjacent to the study area (CHRIS/NWIC File No. 97-397 and 97-401) although a number of potential resources have been identified.[7]

The 1859 plat of *Rancho San Leandro* (Croze 1859) suggests that "Wood's House", another house, the San Lorenzo House, and a barn were located on the north side of San Lorenzo Creek in the study area.

---

3. For example, Crespi in 1772 describes five villages before reaching San Lorenzo Creek (Brown 1994:2, Fig. 1.1., 12-13).

4. This Christian village may conform to CA-Ala-6 observed by Nelson (1909b) along San Lorenzo Creek and/or the tribelet settlement of *lisyan* located to the south of San Lorenzo Creek (Levy 1978:485, Fig. 1, #5). Alternatively, this village could have been associated with the San Leandro Indian Adobe Rancheria Building site dating to 1837 located in the northern part of the study area (Hendry and Bowman 1940:600). See the Hispanic Period for additional information.

5. The De Anza Expedition site of March 31, 1776 is located/commemorated at Root Park, north of San Leandro Creek in San Leandro to the north of the study area (Stuart 1951:44; San Leandro 1989:IV-67, 69, #1 as 1775).

6. This structure appears to have been the "small rancheria" located near San Leandro (Fredrickson with others 1977:VII-103 after Bowman 1958).

7. Both early San Leandro and Hayward were located some distance from the study area. San Leandro was laid out in 1855 along San Leandro Creek, north of the study area. Hayward was founded in 1854 and located some distance to the south of the study area (Gudde 1979:136-137, 288; Mosier and Mosier 1986:77-78).

San Lorenzo, known in 1852 as "Squattersville", consisted of many small tracts along the banks of San Lorenzo Creek between Mission Boulevard and Hesperian Boulevard. The road which linked San Lorenzo to San Leandro on the north or Mission San Jose on the south passed through the area (Higley 1857; Mosier and Mosier 1986:83; Thompson and West 1878:24-25; Wood 1883:452). This location is situated inside the study area.

San Lorenzo by 1878 occupied the north side of San Lorenzo Creek within a triangular area bounded, for the most part, by Telegraph Road (present-day Hesperian Boulevard) on the west and the SPRR tracks on the east below the railroad depot. At this time, the town of San Lorenzo was sufficiently populated to warrant a separate illustration in the 1878 Thompson and West Atlas (Thompson and West 1878:121).[8] This area is now located in the Ashland area west of the SPRR tracks (formerly Central Pacific Railroad) in the study area.

Cherryland is an unincorporated area in the vicinity of Cherry Way on the south side of San Lorenzo Creek between Hayward and San Leandro. The former William Meek cherry orchards were subdivided in 1920 (Mosier and Mosier 1986:22). As a result, most of the properties in this area probably date from 1920 onward.

Ashland is an unincorporated area in the vicinity of Ashland Avenue located north of San Lorenzo Creek between Hayward and San Leandro. This area was primarily developed in the 1940s (Mosier and Mosier 1986:13). As a result, most of the properties in this area probably date from 1940 onward although there are many turn of the century house in this area on Ashland Avenue, Elgin Street, Kent Avenue and Delano Street.

FINDINGS

The study area is moderate to highly sensitive in regard to cultural resources associated with the Prehistoric, Hispanic and American Periods. This conclusion is based on a review of pertinent records, maps and other documents.

One prehistoric site (CA-Ala-6) has been recorded along San Lorenzo Creek. The Costanoan Indian *Chochenyo* tribelet settlement known as *lisyan* was located south of San Lorenzo Creek, but the exact location is not known although CA-Ala-6 may be linked to it. In addition, the location of the Christian village of *R. de San Lorenzo*, as illustrated on a 1824 Mission San Jose map, is also unknown. This site could be associated with CA-Ala-6, the *Chochenyo* tribelet settlement known as *lisyan* or even the San Leandro Indian Adobe Rancheria Building site of ca. 1837. The rancheria building was situated in the northern part of the study area ". . . on top of the small hill 200 feet west of Foothill Boulevard between 155th and 159th Streets." No current information is available on any of these resources.

No American era archaeological sites have been recorded in or adjacent to the study area, but may exist. These include "Wood's House", another House, the San Lorenzo House, and a barn located on the north side of San Lorenzo Creek dating to 1859. Resources dating to the ca. 1870s and associated with the original location of San Lorenzo may also be present in the study area as by 1878, San Lorenzo had been relocated to the north side of San Lorenzo Creek within a triangular area bounded, for the most part, by Telegraph Road (present-day Hesperian Boulevard) on the west and the railroad tracks on the east below the railroad depot in the study area. This area includes the San Lorenzo Pioneer Cemetery situated on the east side of Hesperian Boulevard south of State Route 238. This cemetery, also known as the San Lorenzo Cemetery, is a State of California *Point of Historical Interest* (CAL/OHP 1976:156, 224;

8. The still extant San Lorenzo Pioneer Cemetery located west of Hesperian Boulevard just south of Route 238 was present by 1878 (Thompson and West 1878:121; USGS San Leandro 1980). Cemetery name provided by the Hayward Area Historical Society Museum, personal communication 9/10/97).

CAL/OHP v.d.c:188).

Historic properties which appear on the State of California *Historic Properties Directory* (CAL/OHP v.d.c). within the study area are listed in Attachments:List 1. Five properties on the *Historic Properties Directory* are within the study area[9] and another 12 require a field check to determine if they are present. In addition, an "Old Hotel", built ca. 1850 and still standing in 1966 at Hesperian Boulevard and the San Lorenzo Creek Bridge in San Lorenzo is also listed on the *California Inventory of Historic Resources* (CAL/OHP 1976:147, 224), but is not included in the *Historic Properties Directory* (CAL/OHP v.d.c). The exact location of this resource is not known and it may be situated in or adjacent to the study area.

Only one architectural resource has been identified as significant based on national, state or local[10] criteria. The Meek Mansion and Carriage House, 240 Hampton Road, Hayward is listed on the National Register of Historic Places (CAL/OHP v.d.c; USNPS 1997) and is also listed on the *California Inventory of Historic Resources* (CAL/OHP 1976:33, 223). The associated Meek Estate/Park has a separate listing in the *Historic Properties Directory* as a State of California Point of Historical interest (CAL/OHP v.d.c:49). In addition, a Laurel or Bay Tree located at 9 Lewelling Boulevard, San Lorenzo has been identified as eligible for a local listing only on the *Historic Properties Directory.* The San Lorenzo Camp Site, situated on San Lorenzo Creek at Mattox Road, has not been evaluated.

Additional historic or architecturally significant sites, structures, landmarks, or points of interest may be identified within the study area as part of a field review.

MANAGEMENT RECOMMENDATIONS

This report has reviewed the results of an archival and literature search of commonly available research resources for the study area. The completion of a more intensive background study, an archaeological field review of the currently reported site locations and an architectural inventory of the study area is recommended or individual assessments of specific areas that may be impacted by proposed project development area recommended. Subsurface evidence of significant prehistoric or historic cultural deposits[11] is not expected due to the intensive

9. This total includes the San Lorenzo Pioneer Cemetery.

10. Only the San Leandro General Plan list was consulted for this initial study (San Leandro 1989:IV-67-69, Fig. IV-5).

11. Significant prehistoric cultural resources are defined as human burials, features or other clusterings of finds made, modified or used by Native American peoples in the past. The prehistoric and protohistoric indicators of prior cultural occupation by Native Americans include artifacts and human bone, as well as soil discoloration, shell, animal bone, sandstone cobbles, ashy areas, and baked or vitrified clays. Prehistoric materials may include:

    a. Human bone - either isolated or intact burials.
    b. Habitation (occupation or ceremonial structures as interpreted from rock rings/features, distinct ground depressions, differences in compaction (e.g., house floors).
    c. Artifacts including chipped stone objects such as projectile points and bifaces; groundstone artifacts such as manos, metates, mortars, pestles, grinding stones, pitted hammerstones; and, shell and bone artifacts including ornaments and beads.
    d. Various features and samples including hearths (fire-cracked rock; baked and vitrified clay), artifact caches, faunal and shellfish remains (which permit dietary reconstruction), distinctive changes in soil stratigraphy indicative of prehistoric activities.
    e. Isolated artifacts

    Historic cultural materials may include finds from the late 19th through early 20th centuries. Objects and features associated with the Historic Period can include:

urbanization which has occurred in the area.

In general, it is recommended that if any significant cultural materials are exposed or discovered during either site preparation or subsurface construction activities, operations should stop within 25 feet of the find and a qualified professional archaeologist contacted for evaluation and further recommendations. Potential recommendations could include evaluation, collection, recordation, and analysis of any significant cultural materials followed by a professional report.

If I can provide any additional information or be of further service please don't hesitate to contact me. Thank you for retaining our firm for the project.

Sincerely yours,
BASIN RESEARCH ASSOCIATES, INC.

Colin I. Busby
Principal

CIB/d
Enclosures

REFERENCES CITED AND CONSULTED

American Association for State and Local History, National Park Service and National Conference of State Historic Preservation Officers **(AASLH/NPS/NCSHPO)**
1991 National Register of Historic Places 1966-1991: Cumulative List Through June 30, 1991. American Association for State and Local History, Nashville, Tennessee.

American Society of Civil Engineers, San Francisco **(ASCE)**
1977 Historic Civil Engineering Landmarks of San Francisco and Northern California. The History and Heritage Committee, San Francisco Section, American Society of Civil Engineers. Pacific Gas and Electric Company.

Anonymous
m.s. *Plano de la Mision de San Jose, 1824.* Map on file, Bancroft Library, University of California, Berkeley.

---

a. Structural remains or portions of foundations (bricks, cobbles/boulders, stacked field stone, postholes, etc.).
b. Trash pits, privies, wells and associated artifacts.
c. Isolated artifacts or isolated clusters of manufactured artifacts (e.g., glass bottles, metal cans, manufactured wood items, etc.).
d. Human remains.

In addition, cultural materials including both artifacts and structures that can be attributed to Hispanic, Asian and other ethnic or racial groups are potentially significant. Such features or clusters of artifacts and samples include remains of structures, trash pits, and privies.

1807-27 *Libro de Patentes y de Inventario Perteneciente a la Mision de San Jose en la Nueva California.* MS on file, Bancroft Library, University of California, Berkeley (after Findlay et al. 1982).

Baker, S. and L.H. Shoup
1989 Technical Report: Cultural Resources BART Dublin/Pleasanton Extension Project. MS on file, S-11161, California Archaeological Site Inventory, Rohnert Park.

Banks, P. and D.A. Fredrickson
1977 An Archaeological Investigation of Project #3, Zone 5 and Zone 6 of the Alameda County Flood Control and Water Conservation District. MS on file, S-814, California Archaeological Site Inventory, Rohnert Park.

Beck, W.A. and Y.D. Haase
1974 Historical Atlas of California (Third printing). University of Oklahoma Press, Norman.

Bennyhoff, J.A.
1977 Ethnogeography of the Plains Miwok. Center for Archaeological Research at Davis Publication 5.

Bowman, J.N.
1958 The Resident Neophytes of the California Missions. Historical Society of Southern California Quarterly.

Brown, Alan K.
1994 The European Contact of 1772 and some later Documentation. In The Ohlone Past and Present: Native Americans of the San Francisco Bay Region, pp. 1-42, compiled and edited by Lowell John Bean. Ballena Press Anthropological Papers 42, Menlo Park.

California (State of), Department of Parks and Recreation, Office of Historic Preservation (**CAL/OHP**)
v.d.a California Historical Landmarks. California Department of Parks and Recreation, Office of Historic Preservation, Sacramento (consulted by the Northwest Information Center of the Historical Resources File System, Sonoma State University, Rohnert Park).

v.d.b Point of Historical Interest Log. State of California Office of Historic Preservation, Sacramento (consulted by the Northwest Information Center of the Historical Resources File System, Sonoma State University, Rohnert Park).

v.d.c Historic Properties Directory (dated 7/02/97). Office of Historic Preservation, Department of Parks and Recreation, Sacramento.

1973a The California History Plan, Volume One - Comprehensive Preservation Program. State of California, The Resources Agency, Department of Parks and Recreation, Sacramento.

1973b The California History Plan, Volume Two - Inventory of Historic Features. State of California, The Resources Agency, Department of Parks and Recreation, Sacramento.

1975 California Historical Landmarks. Resources Agency, Department of Parks and Recreation, Sacramento.

1976 California Inventory of Historic Resources. Resources Agency, Department of Parks and Recreation, Sacramento.

1988 Five Views: An Ethnic Sites Survey for California. State of California, The Resources Agency, Department of Parks and Recreation, Sacramento.

1990a Minutes of the State Historical Resources Commission. November 2, 1990. Including Appendix B. Listing of Properties on the National Register of Historic Places, California Registered Historical Landmarks and California Point of Historical Interest for 1990. Copy on file, Basin Research Associates, San Leandro.

1990b California Historical Landmarks. Office of Historic Preservation, Department of Parks and Recreation, Sacramento.

1991 Minutes of the State Historical Resource Commission. Copy on file, Basin Research Associates, San Leandro.

1992 1992 Annual Report of the State Historical Resources Commission. Copy on file, Basin Research Associates, San Leandro.

1993-1997 Agenda and Minutes of the Quarterly Meeting of the State Historical Resource Commission. Copy on file, Basin Research Associates, San Leandro.

Charles Hall Page & Associates, Inc.

1977a Historic Property Survey Report for "A" Street from Montgomery Street to Hesperian Boulevard, City of Hayward, Alameda County, California. FAU M-A008. City of Hayward Projects 46 136 and 46 149. MS on file, S-14558, California Archaeological Site Inventory, Rohnert Park.

1977b Historical Significance, A Supplement: Properties in the Proposed "A" Street Project Area, Hayward, California. MS on file, S-12924, California Archaeological Site Inventory, Rohnert Park.

Croze, John La

1858-1863 Plat of the *Rancho San Lorenzo* finally confirmed to Barbara Soto et al. Surveyed under Instructions from the U.S. Surveyor General by John La Croze, Deputy Surveyor, October 1858 and April 1863. On file, #132, California State Office, Bureau of Land Management, Sacramento.

1859 Plat of the *Rancho San Leandro* finally confirmed to Jose Joaquin Estudillo. Surveyed under Instructions from the U.S. Surveyor General by John La Croze, Deputy Surveyor in August 1859. On file, #131, California State Office, Bureau of Land Management, Sacramento.

Dowdall, Katherine

1992 Addendum Number 4. Negative Archaeological Survey Report Route 238, Post Mile 9.3/14.2. MS on file, S-13610, California Archaeological Site Inventory, Rohnert Park.

Environmental Science Associates, Inc. (**ESA**)
1977 Historical Inventory Study Report "A" Street Widening and Grade Separation, City of Hayward, Alameda County, California Projects FAU M-6109, 46-136, 46-149. MS on file, S-12923, California Archaeological Site Inventory, Rohnert Park.

Fitzgerald, Richard T.
1986 Negative Archaeological Survey Report Route 238, Post Mile 9.3/14.7. MS on file, S-12987, California Archaeological Site Inventory, Rohnert Park.

Fredrickson, D.A. with others
1977 A Summary of Knowledge of the Central and Northern California Coastal Zone and Offshore Areas. Vol. III Socioeconomic Conditions, Chapter 7. MS on file, S-848, California Archaeological Site Inventory, Rohnert Park.

Galvan, P. Michael
1967/68 People of the West, The Ohlone Story. Indian Historian 1(2):9-13.

Gudde, Erwin G.
1969 California Place Names: The Origin and Etymology of Current Geographical Names (Third edition revised and enlarged, Second printing). University of California Press, Berkeley.

Hart, J.D.
1978 A Companion to California. Oxford University Press, New York.

Hendry, G.W. and J.N. Bowman
1940 The Spanish and Mexican Adobe and Other Buildings in the Nine San Francisco Bay Counties, 1776 to about 1850. MS on file, Bancroft Library, University of California, Berkeley.

Higley, H.A.
1857 Official Map of the County of Alameda California. Surveyed and compiled by Order of the Board of Supervisors. Horace A. Higley. Britton and Rey, San Francisco.

Holman, Miley Paul and David Chavez
1976 An Archaeological Reconnaissance of the Proposed Pipeline Routing Changes along the Dublin Canyon to San Lorenzo Portion of the Livermore-Amador Valley Waste Water Treatment Project, Alameda County, California. MS on file, S-914, California Archaeological Site Inventory, Rohnert Park.

Kroeber, A.L.
1925 Handbook of the Indians of California. Bureau of American Ethnology Bulletin 78. Government Printing Office, Washington, D.C.

Levy, R.
1978 Costanoan. In *California*, edited by R.F. Heizer, Volume 8. Handbook of North American Indians, W.G. Sturtevant, general editor, pp. 485-497. Smithsonian Institution, Washington, D.C.

Margolin, M.
1978 The Ohlone Way: Indian Life in the San Francisco - Monterey Bay Area. Heyday Books, Berkeley.

Milliken, R.T.
1995 A Time of Little Choice: The Disintegration of Tribal Culture in the San Francisco Bay Area 1769-1810. Ballena Press Anthropological Papers No. 43.

Mosier, P. and D. Mosier
1986 Alameda County Place Names. Mines Road Books, Fremont, California.

Nelson, Nels C.
1909 Shellmounds of the San Francisco Bay Region. University of California Publications in American Archaeology and Ethnology 7(4).

ca. 1910a "Site location map for Nelson's San Francisco Bay region (ca. 1910)." Manuscript Map in University of California Archaeological Survey Files (as cited in Reports of the University of California Archaeological Survey 75:83).

ca. 1910b Site Record Form, CA-Ala-6. On file, California Archaeological Site Inventory, Rohnert Park. (Nelson survey ca. 1910, site form by Pilling).

Quaternary Research Group
1976 Archaeology in Alameda County: A Handbook for Planners [written and designed by D.P. Miller]. Alameda County Planning Department, Hayward.

San Leandro (City of)
1989 San Leandro General Plan. Adopted March 20, 1989. Prepared by the Community Development Department, Planning Division.

Siegel and Strain Architects
1997 Background Information for the Proposed Redevelopment Study Area - Unincorporated Areas and Portions of the Cities of San Leandro and Hayward, Alameda County Alameda County, California. On file, Basin Research Associates, San Leandro.

Stuart, Reginald
1951 San Leandro . . . a History. First Methodist Church, San Leandro.

Thompson and West
1878 Official Historical Atlas Map of Alameda County, California. Thompson and West, Oakland (reprinted by Valley Publishers, Fresno, 1976).

United States Department of Interior, Geological Survey **(USGS)**
1980 Hayward, Calif. [Quadrangle]. Topographic, 7.5 minute series. United States Geological Survey, Menlo Park (1959 photorevised).

1980 San Leandro, Calif. [Quadrangle]. Topographic, 7.5 minute series. United States Geological Survey, Menlo Park (1959 photorevised).

United States Department of the Interior, National Register of Historic Places, National Park Service **(USNPS)**
1997 National Register of Historic Places Index by Property Location. Properties in California, listed determined, and pending. Copy on file, Basin Research Associates, San Leandro (with updates by the Historical Resources Files System, Northwest Information Center, Sonoma State University).

Watts, Diane C. and David W. Mayfield
1981 Archaeological Survey Report 04-Ala-580 29.6/R31.7 Proposed Modification of Interstate 580 to an Eight Lane Freeway in Castro Valley, Alameda County 0415 - 410911. MS on file, S-2809, California Archaeological Site Inventory, Rohnert Park.

Weigel, Lawrence E.
1984 Negative Archaeological Survey Report Route 17/238, ALA 23 15.9/16.7 ALA 17 20.9/20.7. [Alameda County, California.] MS on file, 6603, California Archaeological Site Inventory, Rohnert Park.

Wood, M.W.
1883 History of Alameda County, California. M.W. Wood, Oakland. Holmes Book Company, Oakland (1969 reprint).

Abbreviations

n.d. no date
v.d. various dates
N.P. no publisher noted
n.p. no place of publisher noted

S- reports on file, California Historical Resources Information System, Northwest Information Center, Sonoma State University Rohnert Park.

ATTACHMENTS

FIGURES

FIGURE 1	GENERAL PROJECT LOCATION
FIGURE 2	STUDY AREA LOCATION (USGS San Leandro and Hayward, Calif. 1980)

LISTS

LIST 1	CALIFORNIA HISTORIC PROPERTY DIRECTORY Cultural Resources In Study Area

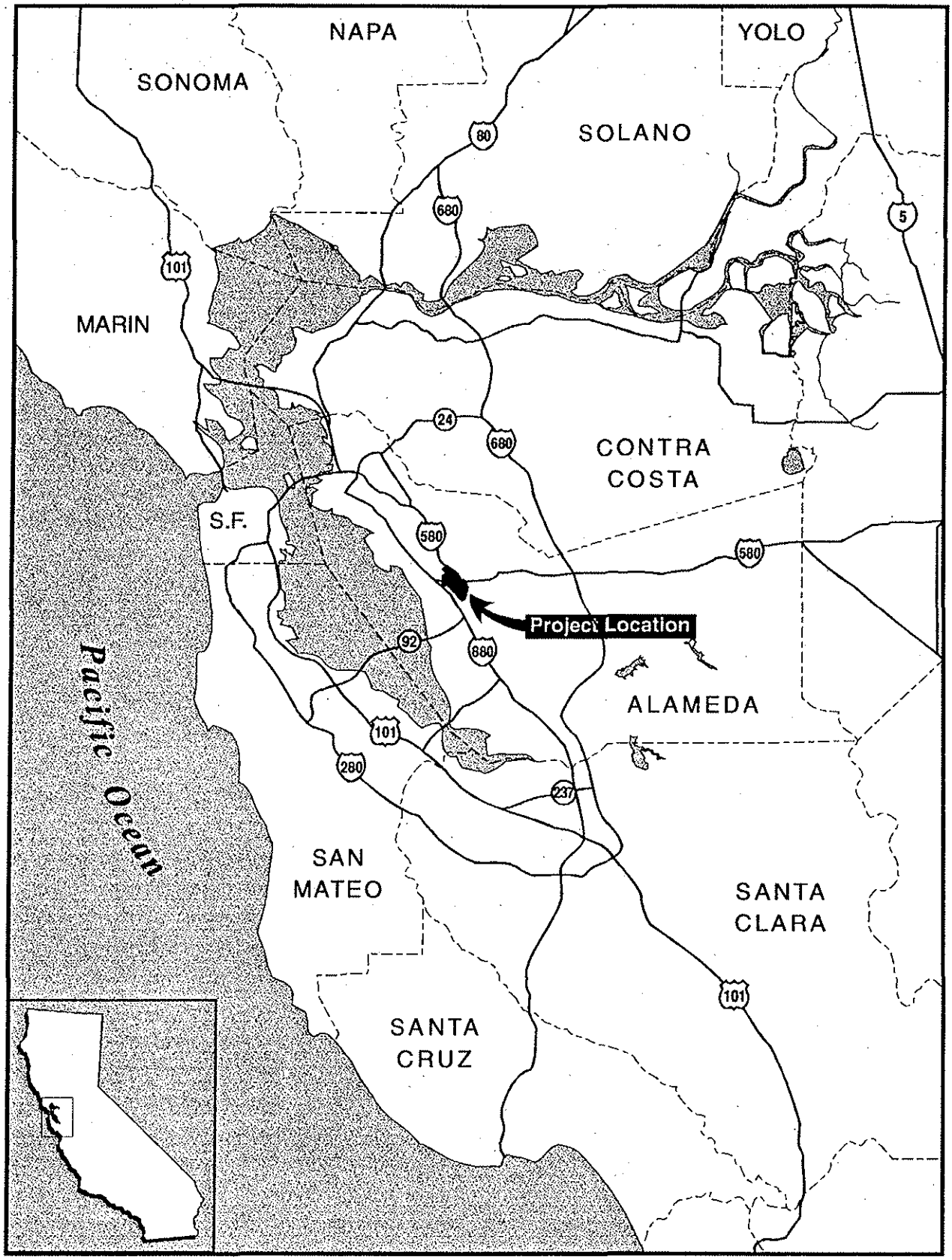


Figure 1: General Project Location

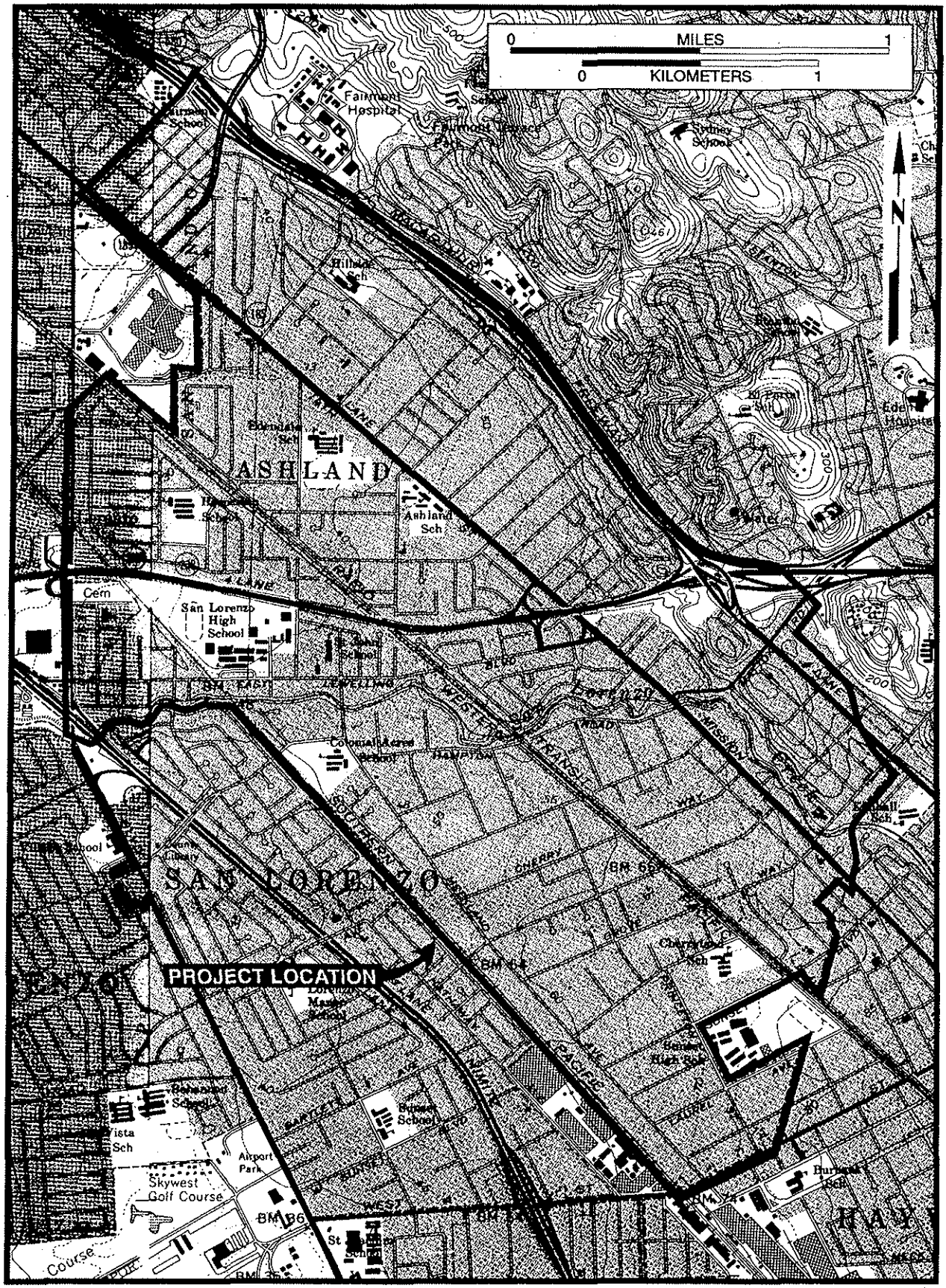


Figure 2: Project Location (USGS San Leandro, Calif. 1973 and Hayward, Calif. 1980)

LIST 1
CALIFORNIA HISTORIC PROPERTY DIRECTORY
Cultural Resources in Study Area

CHERRYLAND AND ASHLAND ADDRESSES	DESCRIPTION	EVALUATION STATUS (*Historic Properties Directory*)
Appear To Be Within Study Area		
Hesperian Blvd. (E side, S of Route 238)	San Lorenzo Cemetery (San Lorenzo Pioneer Cemetery)	Code 7L - evaluated for register other than the National Register; Pt of Historical Interest ALA-021
9 Lewelling Blvd.	Laurel or Bay Tree	Code 5S - eligible for local listing only
Boston Road	Meek Estate/Park	Code 7L - Pt of Historical Interest ALA-024
240 Hampton Road	Meek Mansion and Carriage House	Code 1S - listed in National Register as an individual property
Mattox Road	San Lorenzo Camp Site, San Lorenzo Creek	Code 7 - not evaluated
Possibly Within Study Area, But Require Field Verification		
State Route 185	Bridge 33-115 over San Leandro Creek; Route 185, P.M. 00582	Code 4S - may become eligible for National Register as a separate party Caltrans Category 5 - not eligible for the National Register
E. 14th Street	San Leandro Plaza	Code 7L - Pt of Historical Interest ALA-008
1292 A Street		Code 6 Y - determined ineligible for the National Register by consensus
1296 A Street		Code 6 Y
1328 A Street		Code 6 Y
1332 A Street		Code 6 Y
1340 A Street		Code 6 Y
1349 A Street		Code 6 Y
1399 A Street	Old Hayward Tree, Laurel and Bay Tree	Code 6 – determined ineligible for National Register listing
Hesperian Ave [sic]	Eureka School Site	Code 6 – determined ineligible for National Register listing
Mission Blvd.	Guillermo Castro Plaza	Code 7J – received by OHP for evaluation or action but not yet evaluated
Mission Blvd.	Surveyors Tree/Spanish Era	Code 5S
Mission Blvd.	Rancho San Lorenzito (Francisco Soto)	Code 7
Mission Blvd.	Site of 1st Firehouse	Code 6

LIST 1, con't
CALIFORNIA HISTORIC PROPERTY DIRECTORY
Cultural Resources in Study Area

ABBREVIATIONS AND SOURCES:

OHP Office of Historic Preservation

California (State of), Department of Parks and Recreation, Office of Historic Preservation (**CAL/OHP**)

v.d.c Historic Properties Directory. Office of Historic Preservation, Department of Parks and Recreation, Sacramento. On file, Northwest Information Center of the Historical Resources File System, Sonoma State University, Rohnert Park).

California, Department of Transportation **[CALTRANS]**

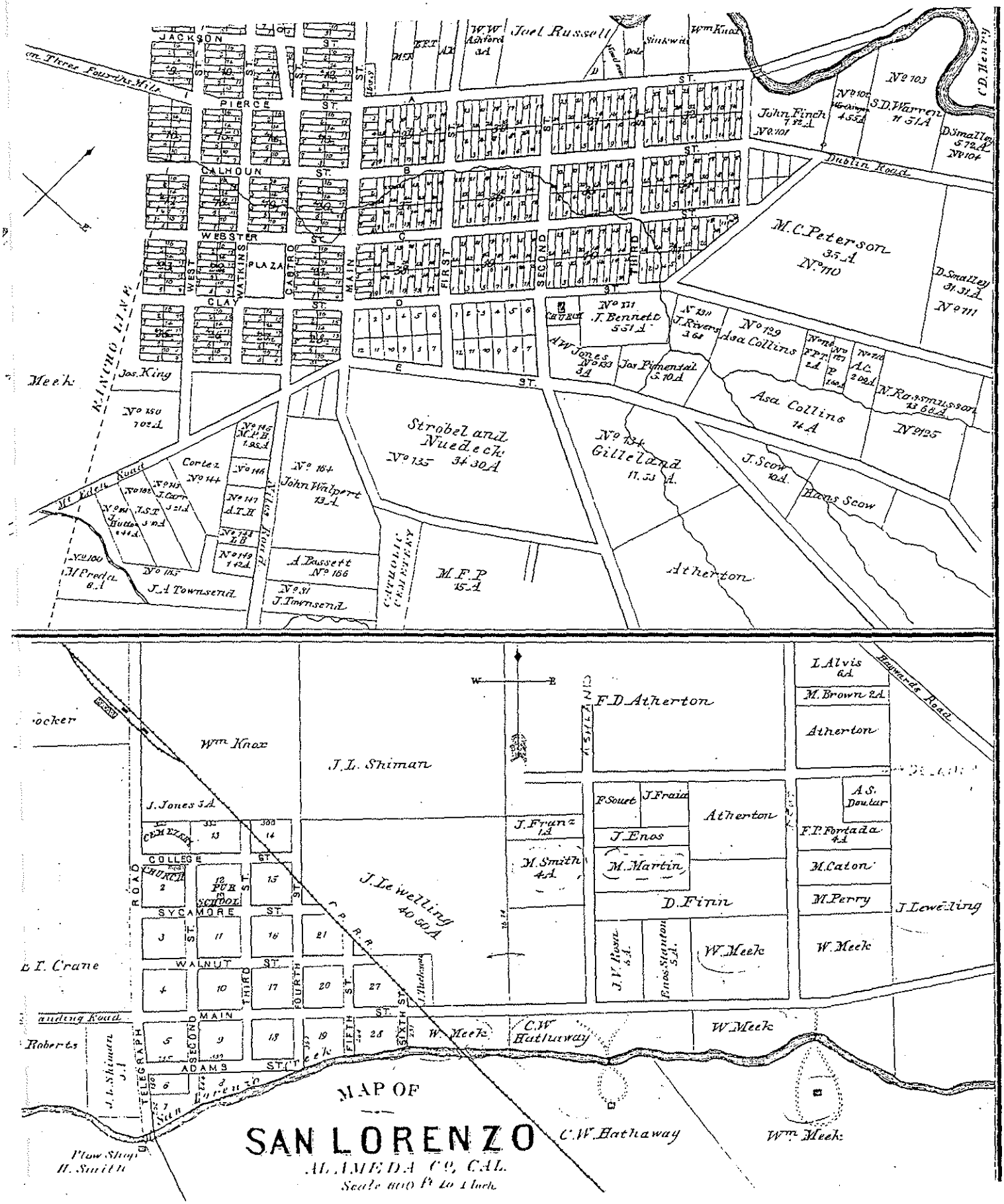
1987 DATABASE Print. Structures maintenance System - HSSALL Historical Significance -Local Bridges, 3/05/87. Internal CALTRANS data. Provided by John W. Snyder, Chief Architectural Historian, CALTRANS, Sacramento. Copy on file, Basin Research Associates, San Leandro.

Note: Charles Hall Page & Associates (1977a) includes a list of properties in the A Street Hayward project.

HISTORICAL MAPS

THOMPSON & WEST

1878



THOMPSON & WEST

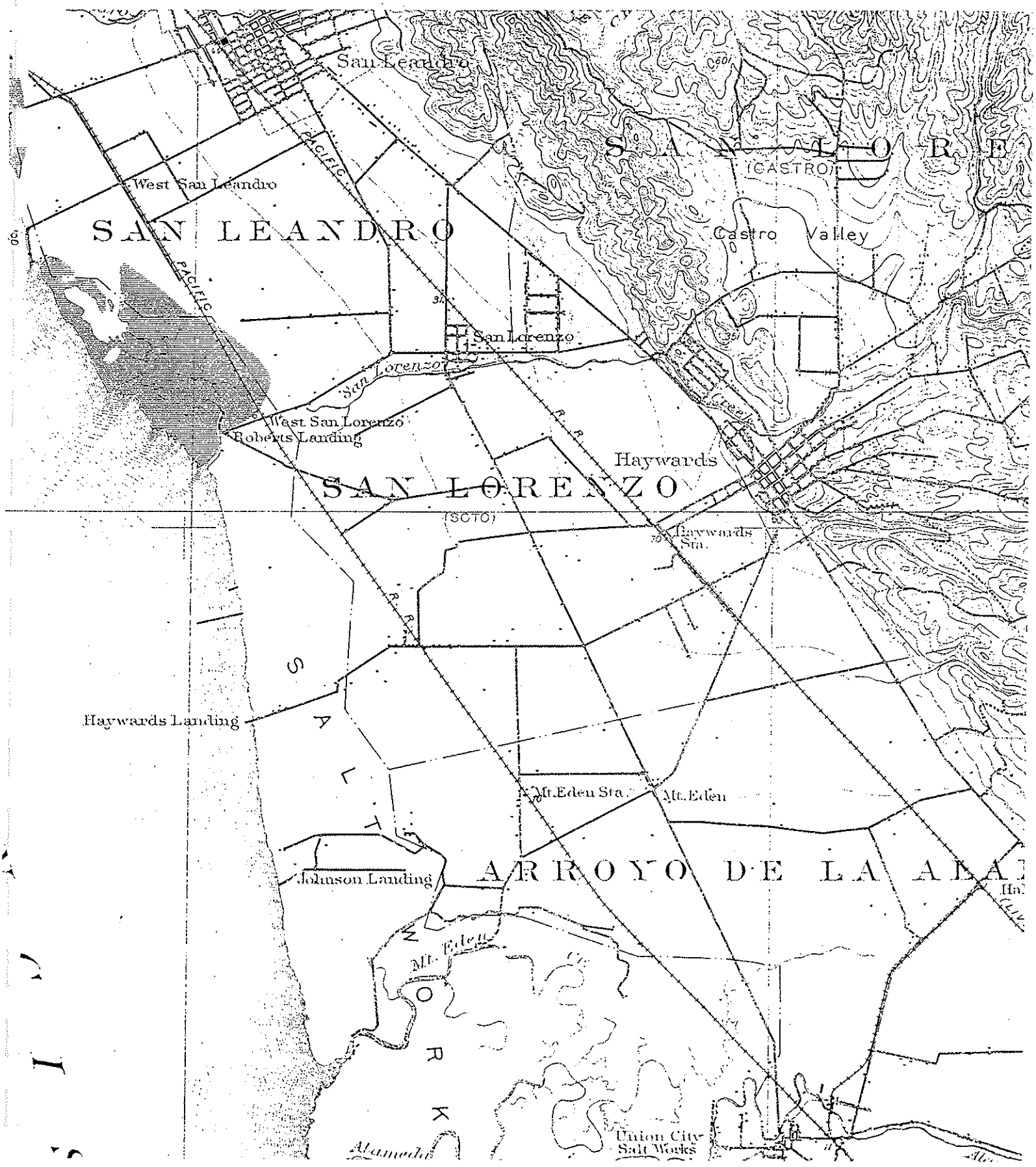
1878

ca. 1880

T2SR2W
T2SR3W
RANCHO SAN ANTONIO
YGNACIO PERALTA
SAN LEANDRO BAY
ALAMEDA
SAN LEANDRO
RANCHO SAN LEANDRO
RANCHO SAN LORENZO
CASTRO VALLEY
HAYWARD
EDEN
MOUNT EDEN
UNION CITY
SOUTH PACIFIC COAST R.R.
PACIFIC R.R.
SAN FRANCISCO

USGS HAYWARDS(sic) QUADRANGLE

1899 (reprint 1913)



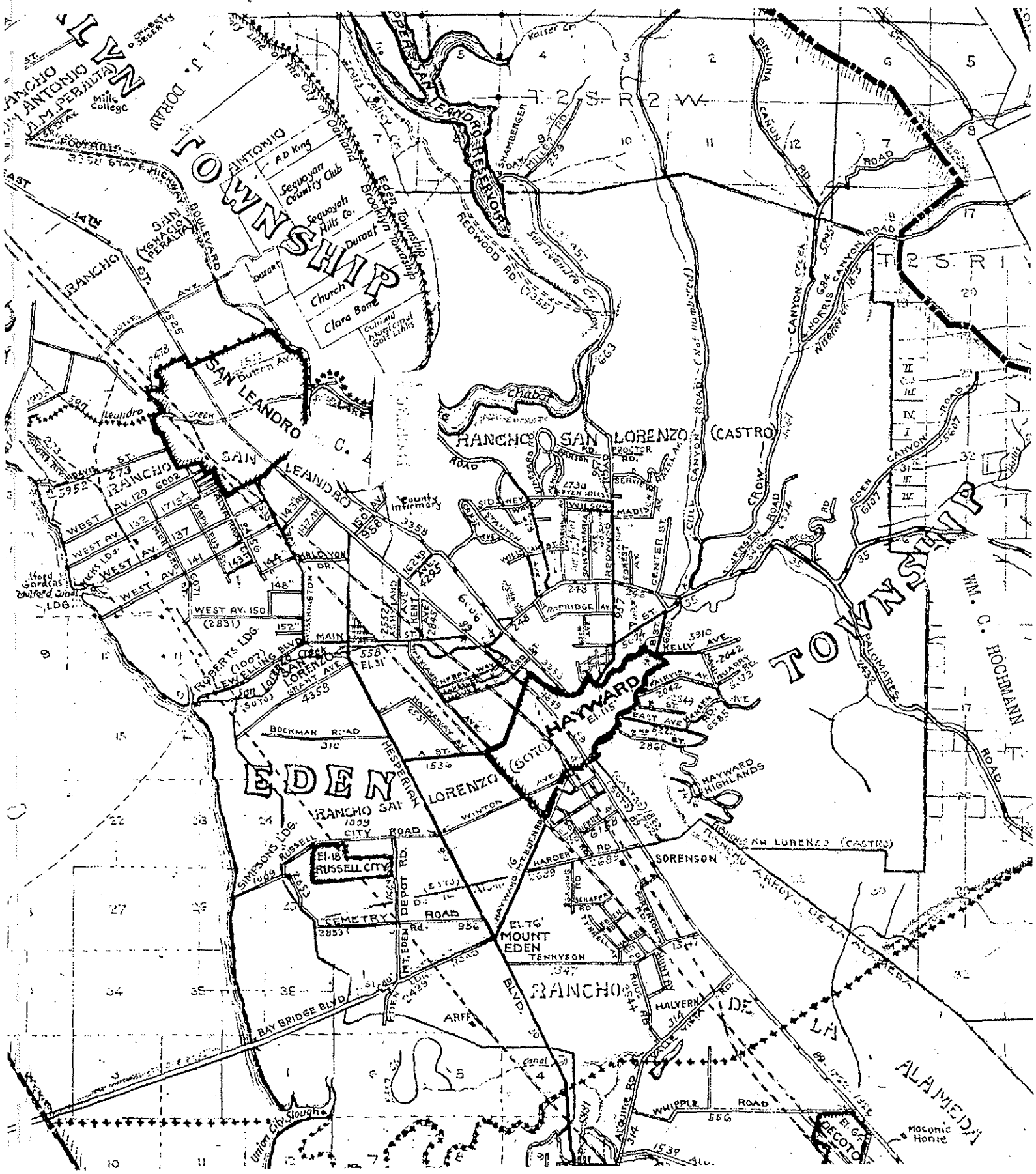
USGS HAYWARDS (sic) QUADRANGLE
1915

HIGHWAYS ALAMEDA COUNTY, CALIFORNIA

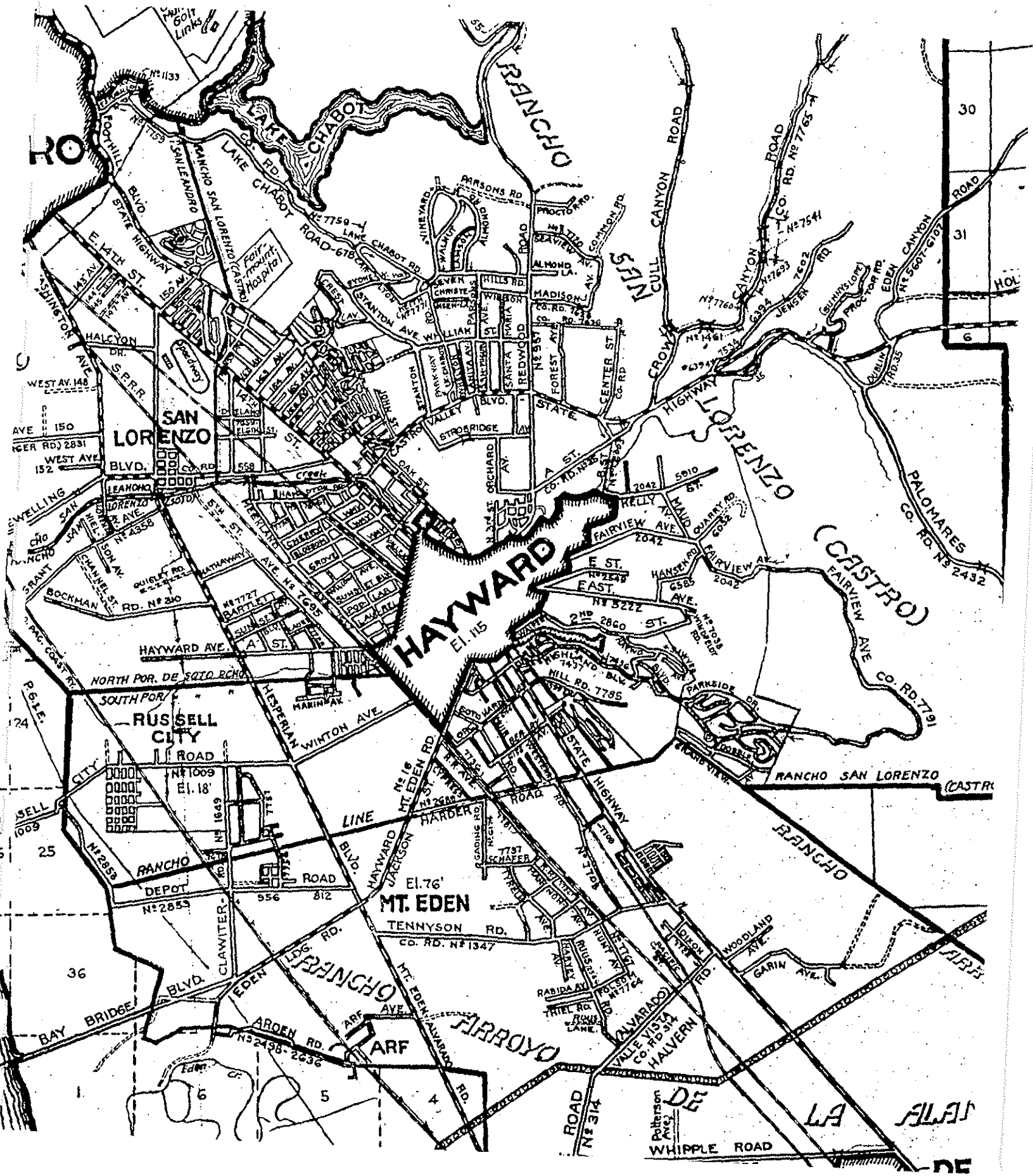
Alameda County Roads outside of incorporated Cities

Geo. A. Posey, County Surveyor

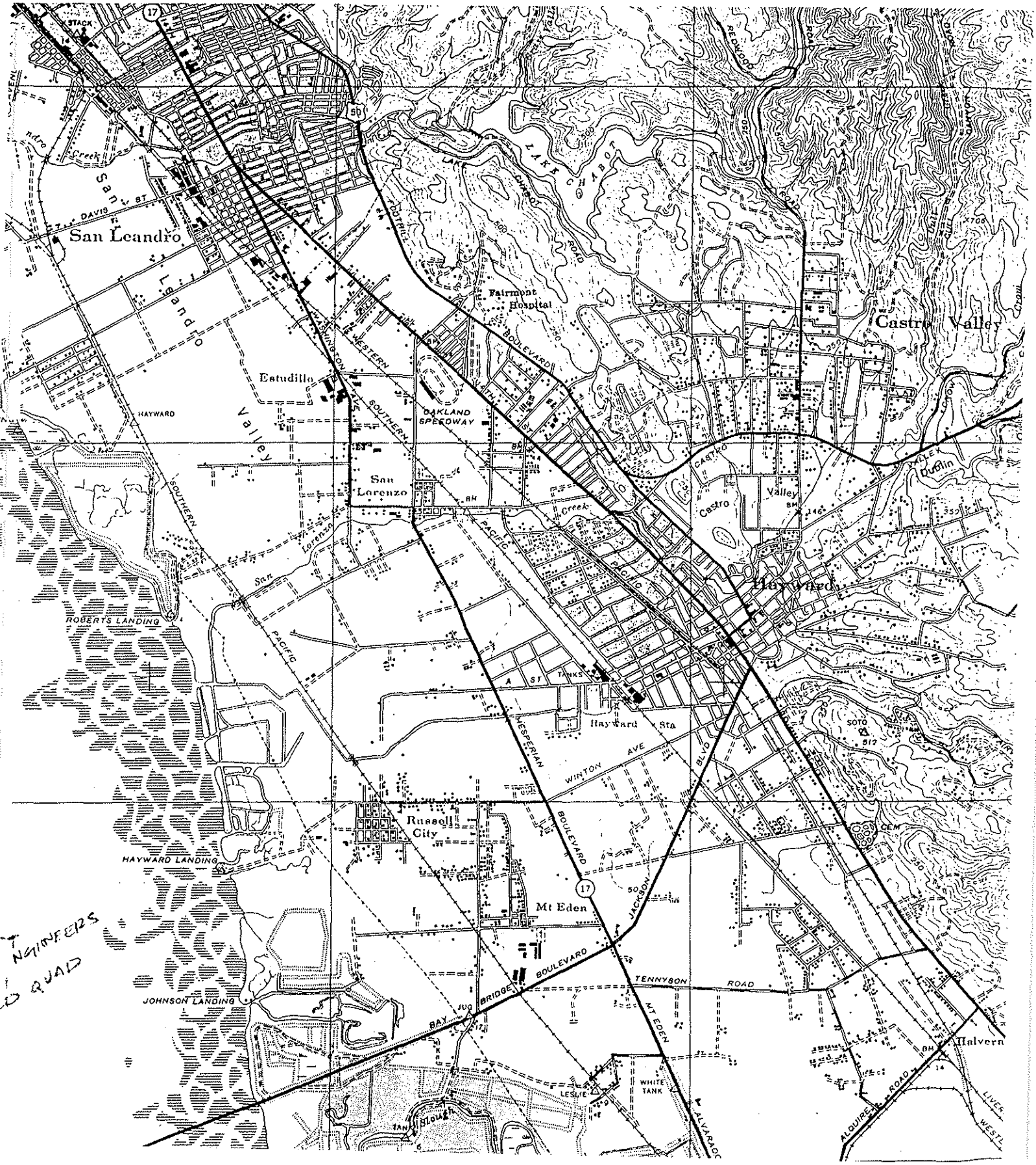
Feb. 1933



ROADS AND HIGHWAYS IN ALAMEDA COUNTY AND VICINITY
Compiled by Burnett Hamilton, County Surveyor
1938



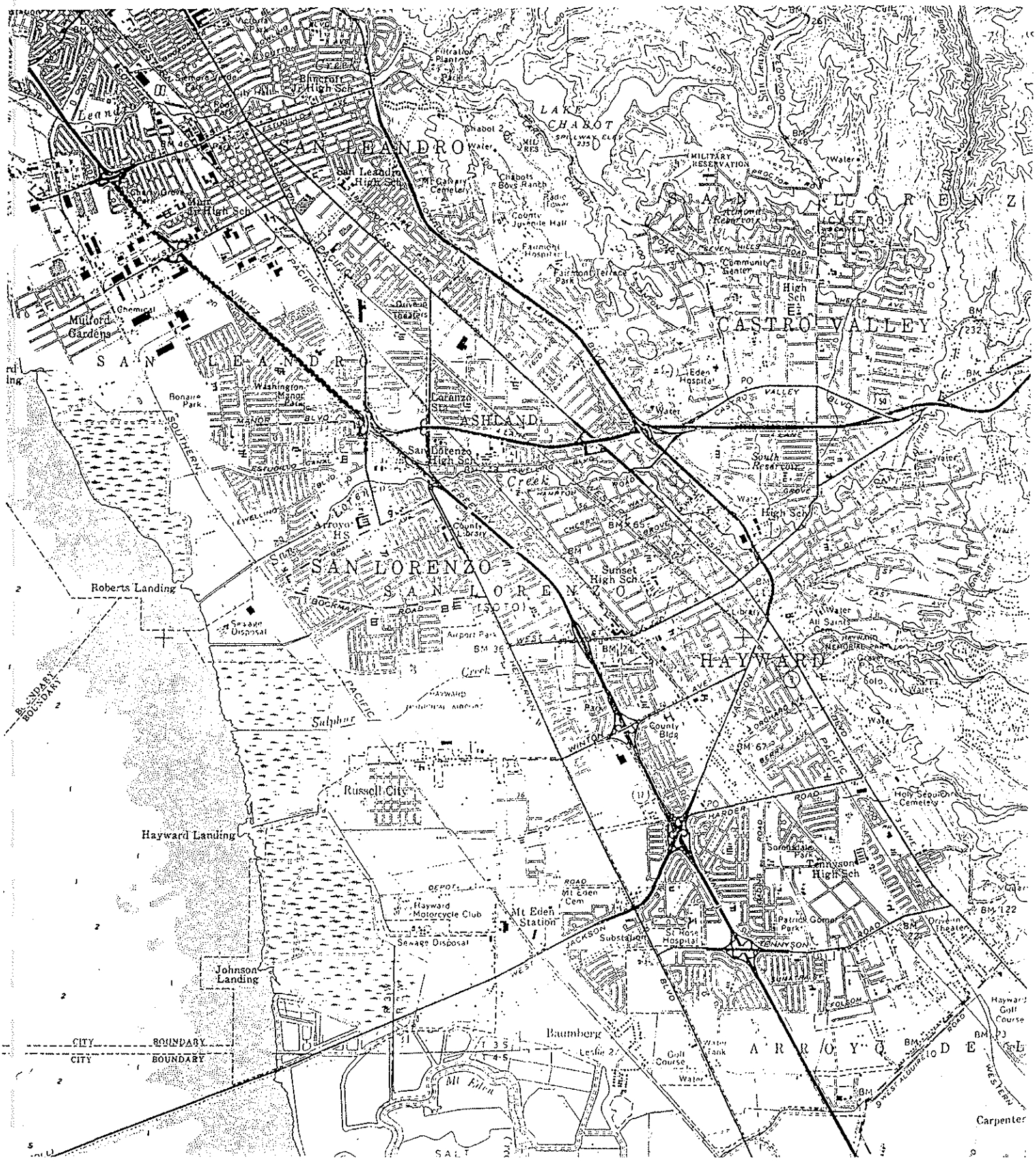
WAR DEPARTMENT, CORPS OF ENGINEERS, U.S. ARMY
Hayward Quadrangle
1942



STATE OF CALIFORNIA, DEPARTMENT OF WATER RESOURCES

Hayward Quadrangle

1959



Appendix D – Geology and Soils

- **Jensen-Van Lienden Associates, Inc.** *Geotechnical Engineering Study, 16309 Kent Avenue, San Lorenzo, California.* Berkeley, CA : s.n., May 18, 2011. Job No. X129AA.

May 18, 2011
Job No. X129AA

GEOTECHNICAL ENGINEERING STUDY
16309 KENT AVENUE
SAN LORENZO, CALIFORNIA

Prepared For:
Resources for Community Development
2220 Oxford Street
Berkeley, California 94705

Attention: Deni Adeniya

Jensen – Van Lienden Associates, Inc.
GEOTECHNICAL ENGINEERING CONSULTANTS

GEOTECHNICAL ENGINEERING STUDY
16309 KENT AVENUE
SAN LORENZO, CALIFORNIA

TABLE OF CONTENTS

TRANSMITTAL LETTER

SCOPE 1

STUDY METHOD 1

SITE DESCRIPTION AND GEOTECHNICAL CONDITIONS 2

1. Site Description 2
2. Geotechnical Conditions 3

PROJECT DESCRIPTION 3

CONCLUSIONS AND DISCUSSION 4

1. Foundation Support 4
2. Liquefaction 4
3. CBC Geotechnical Seismic Design Parameters 6

RECOMMENDATIONS 6

1. Liquefaction 6
2. Foundations 7
3. Slab on Grade Construction 8
4. Site Preparation and Grading 9
5. Site Drainage 10
6. Construction Observation and Further Services 10
7. Pavements 11

LIMITATIONS 12

REFERENCES 13
FIGURES
GUIDE SPECIFICATIONS

Jensen – Van Lienden Associates, Inc.
GEOTECHNICAL ENGINEERING CONSULTANTS

Curtis N. Jensen
Geoffrey Van Lienden
Srinivas K. Mohan

May 18, 2011
Job No. X129AA

Resources for Community Development
2220 Oxford Street
Berkeley, California 94705

Attention: Deni Adeniya

Re: Geotechnical Engineering Study
Ashland Housing Project
San Lorenzo, CA

Gentlemen:

We have completed our study of engineering properties of soils underlying 16309 Kent Avenue in San Lorenzo, California.

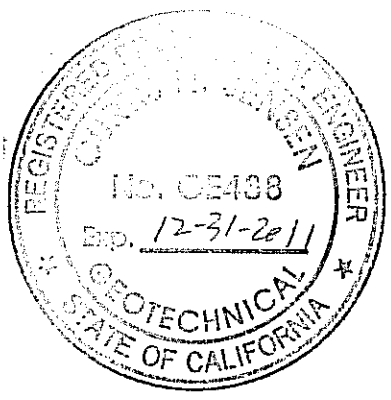
The accompanying report presents our study findings and our recommendations for design and construction of foundations and other features of the project proposed for the site relating to geotechnical engineering. The report includes our study data.

We appreciate having been retained to conduct the study, and remain available to discuss with you the report contents, and/or the substance of our study findings.

Very truly yours,

JENSEN - VAN LIENDEN ASSOCIATES, INC.

Curtis N. Jensen
G. E. #438



1840C Alcatraz Avenue • Berkeley, California 94703 • Phone: (510) 658-9111 • FAX: (510) 658-8918

GEOTECHNICAL ENGINEERING STUDY
16309 KENT AVENUE
SAN LORENZO, CALIFORNIA

SCOPE

This report presents results of a study of the engineering properties and stratigraphy of soils underlying property at the Kent Avenue Ashland Housing project site in San Lorenzo California. The study site is illustrated on Figure 1.

Residential housing and house trailers currently occupy the site. It is proposed to convert the site from it present use by constructing low-income housing on the site.

The purpose of the study was to characterize the engineering properties and stratigraphy of the soils underlying the site to the extent that we could formulate conclusions concerning the site conditions and recommendations for foundations and for other details of the proposed project relating to geotechnical engineering. To achieve this purpose, the study scope included the following elements.

1. Research
2. Subsurface exploration with test borings and cone penetration tests
3. Soil sampling
4. Laboratory testing
5. Engineering analyses
6. Production of this report

STUDY METHOD

The study was comprised of research for published information about the site geology and seismicity, exploration of the site subsurface conditions, laboratory testing of samples of site subsoils and analyses. Exploration of the site subsurface conditions was conducted with test borings.

Five test borings were drilled on May 10, 2011 with 6-inch diameter, truck-mounted, hollow stem and solid stem auger equipment. Approximate locations of these test borings are displayed on Figure 1.

Our project engineer classified soils brought to the surface by the drilling and sampling tools, and recorded these classifications and related notes onto field logs. The logs were occasionally edited to reflect re-examination of recovered samples and the results of laboratory tests. The edited versions are displayed on Figures 2 through 6.

Samples of encountered soil strata were removed from the test borings. Sampling was generally accomplished with drive samplers, advanced with a 140-pound drop hammer, raised through a height of 30 inches and tripped automatically. The number of hammer blows required to advance the drive samplers the last 12 inches of travel was counted and is recorded on the logs of borings.

We performed several laboratory tests on test boring samples. Moisture content, dry density and unconfined compression strength tests were routinely made (the latter on clayey and silty samples). The unconfined compression strength tests were used to estimate the undrained strength of the tested soil. Measured moisture contents, dry densities and confined compression strengths are given on the logs of borings.

The grain-size distribution and Atterberg Limits of selected samples was also determined. Results are displayed on Figure 7.

Analyses were made of the site foundation load carrying capacity, settlement potential, and liquefaction potential.

SITE DESCRIPTION AND GEOTECHNICAL CONDITIONS

1. Site Description

The site is an irregularly shaped parcel fronting on Kent Avenue, near the intersection of Kent Avenue and East 14th Street. The total area is slightly less than 1 ¼ acre.

At the time of our study, a few wood frame single-family residences and several residential house trailers occupied the site.

Elevation changes across the site are not large, possibly amounting to 2 feet or so from front to back.

Two separate driveways serve the residences and trailers. Both lead from Kent Avenue and join together near the site center. The driveways are covered with asphalt concrete.

2. Geotechnical Conditions

Our borings indicate that the near surface soil consists of a thin layer of fill, made up of brown very sandy and gravelly sandy clay/clayey sand.

The fill rests on stiff to medium stiff, dark gray silty clay. Our test borings indicate that this layer is continuous throughout the site, and ranges in thickness from about 1 1/2/feet to perhaps as much as 3 feet.

In test borings 1 and 2, the dark gray silty clay rests on stiff brown silty clay, and then, in turn, by stiff olive gray silty clay and stiff mottled, olive gray, orange brown and light gray silty clay.

In test borings 3, 4 and 5 the brown silty clay was absent, and the near surface dark gray silty clay rests on interbedded silty and clayey sands with occasional gravel and some sandy clay (in test boring 3). These sandy soils overlie stiff clays similar to those observed in test borings 1 and 2.

Groundwater migrated into the open test borings as they were being drilled, and the level to which the accumulated groundwater rose in the borings was measured in some borings after they were completed. These measurements are given on the boring logs.

PROJECT DESCRIPTION

We understand that the project will be comprised of several units of two to three story low cost housing, clustered into seven groups through out the site. We anticipate that the units will be framed with wood. Units not built over at grade parking should impose light

to moderate in foundation loads. Ground floors in the smaller townhouse and live/work spaces may be concrete slabs on grade.

We expect that a minor to moderate amount of grading will be required to adjust the existing grades to conform with the project grades, to provide for level building areas and drainage, and that parking areas and driveways will be surfaced with asphalt concrete.

Utilities supplying the project are likely to be underground, installed in backfilled trenches.

CONCLUSIONS AND DISCUSSION

1. Foundation Support

We conclude that, aside from the surface dark gray silty clay, the clayey soils underlying the site would be suitable for supporting the project improvements on spread footings.

In contrast the sandy soils observed underlying the dark gray clays in test borings 3, 4 and 5 are believed to be potentially liquefiable and are not considered suited for footing support. However, provided that the potential for liquefaction is mitigated, in our opinion, footings would be satisfactory foundations throughout the entire site. The liquefaction potential and proposed mitigation are discussed in more detail below.

We estimate static total and differential settlements of footings designed in accordance with the recommendations of this report will be 1 inch or less and ¾ inches or less respectively. Possible seismic settlements are discussed below.

2. Liquefaction

Research indicates that the subject site lies within a seismic hazard (liquefaction) zone as determined in accordance with the Seismic Hazard Mapping Act. As noted above, lenses and layers of granular soils, generally silty and clayey sands with occasional gravels underlie the site.

It is known that sandy soils are susceptible to liquefaction under the right conditions. Liquefaction is the transformation of an initially stable soil that possesses substantial strength and bearing capacity to one resembling a viscous fluid having little or no shear strength and bearing capacity. It occurs when ground vibrations associated with strong earthquake ground motions are transmitted through a site containing susceptible soils.

From a practical standpoint, only granular (sandy) soils that are saturated (i.e. lie below the groundwater table) and having a loose consistency are susceptible to liquefaction. Dense, saturated granular soils, cohesive silts and clays and all unsaturated soils (those that lie above the groundwater table) are not liquefiable. The clayey soils that underlie the site will not liquefy.

We evaluated the liquefiability of the sandy layers and lenses that underlie the subject site using the data derived from our study, and the prescriptive procedures given in the References 1 and 4.

These analyses indicate that, by and large, the granular layers that underlie the site could liquefy if the site is subjected to strong seismic ground motions.

Unless the liquefaction potential of the sandy soils is mitigated, foundation and/or ground failures could follow the onset of liquefaction. Shallow foundations (footings) could experience partial or total loss of load carrying capacity. Other ground failures involving site lateral displacements (lateral spreading) or settlements associated with drainage can follow the onset of liquefaction.

It is our opinion that potential foundation failures associated with liquefaction are possible at the subject site. Judging from our borings the lenses or zones of sandy soils that may liquefy during an extreme seismic event are limited to the center and rear of the site, and between depths of 4 feet and 11 feet.

We judge lateral spreading is unlikely, partly because of the limited extent of the liquefied zones and partly because of the flat topography in the vicinity, and partly because the mitigation recommended below would create a non-liquefiable layer above the liquefied zone that would restrain lateral spreading.

Drainage from the liquefied zones would theoretically decrease the volume of the zone of the liquefied soil below the mitigation level slightly, leading to settlements apparent at the ground surface. Using data derived from our study, we estimate that the post earthquake settlements from this source would amount to about 1 inch or less. Because nearby areas would not liquefy, this estimate of total settlement would also be a reasonable estimate of the differential settlement. These total and differential settlements are judged to be within a range that is tolerable for the structures that are planned for the site.

In summary, while liquefaction of soils underlying the site is possible, it is our view that this liquefaction would not present a hazard for structures supported on spread footings, provided that the mitigation measure recommended below is implemented.

3. CBC Geotechnical Seismic Design Parameters

The site latitude is 37.695 degrees north and longitude is 122.115 degrees west. Judging from our test borings and laboratory data, and assuming that the site liquefaction susceptibility will be mitigated as recommended, we estimate that the Site Class is D.

We estimate that the short period spectral acceleration is 1.959 g and that the one-second period spectral acceleration is 0.758 g.

RECOMMENDATIONS

1. Liquefaction

As discussed above, the results of our study indicate that the sandy soils encountered in test borings 3, 4 and 5 are potentially liquefiable. We recommend mitigating this hazard by densifying the sands before constructing the project improvements.

One method for densification by compacting the sandy soils is described below. The recommended compaction should be sufficient to increase the sandy soil density to a level where it would not be susceptible to liquefaction related strength loss and would therefore be adequate for foundation support.

There are a variety of other densification procedures that have also proven effective, including vibration based methods, construction of stone columns and others. These procedures are commonly carried out by specialty contractors, who would prepare work plans and bids based on the exploration work and laboratory testing described herein (and additional exploration recommended below). If these other procedures are considered, we suggest such contractors be consulted for specific proposals for improvement of the sandy soils.

Our recommended densification method involves subexcavating the upper portion of the sandy soils, temporarily stockpiling them, and backfilling the excavations with engineered fill. Engineered fill is defined in the Site Preparation and Grading section of this report. The excavated soils should be suitable for the backfill, i.e. they do not require removal from the site and replacement with imported fill. This judgment assumes that the excavated dark gray silty clay soils are thoroughly mixed with the other excavated soils.

Based upon our borings, we tentatively estimate the subexcavation and backfilling depth to be to be a minimum of 7 feet below existing grade, or to the surface of the underlying silty clay, whichever is less. For preliminary planning purposes, we suggest that it be assumed that the entire site will warrant subexcavation and backfilling. However, we recommend performing additional subsurface exploration of the site, with borings and/or cone penetration tests to refine the depth and location of required densification (whether densification is done by conversion of the sandy soils to engineered fill or by other methods).

2. Foundations

Provided that the potentially liquefiable soils are densified, we recommend that foundations consist of spread footings. Footings should bear at a depth of 2 feet below lowest adjacent soil grade. Footings should extend to below the dark gray silty clay surface soils that remain as well.

Recommended bearing pressures are 2000 psf for dead loads, 3000 psf for dead and live loads and 4000 psf for the dead, live and transient (seismic or wind) loading condition. These bearing pressures should be suitable for treated and untreated soils.

If the site liquefaction potential is mitigated by compaction, as described herein, we recommend that interior isolated footings be connected with grade beams. Those footings adjacent to continuous perimeter footings should be connected to the perimeter footings as well. The grade beam/footing connection should be designed for a vertical shear and bending moment. The vertical shear should be taken as the sum of one quarter of the dead load and the real portion of the live load. The recommended connection bending moment is the vertical shear times a moment arm of 4 feet.

Grade beams should not be necessary if another method is employed to treat the sandy soils and mitigate their liquefaction potential.

Our firm should be consulted for further criteria if the lateral load carrying capacity of the foundation soils is a design consideration.

3 Slab on Grade Construction

As noted, because much if not all of the site surface soils will be converted to engineered fill, slabs on grade will be constructed on fill that is compacted to engineered fill requirements. Engineered fill is defined in the Grading section of this report. In the event further exploration defines areas that do not require liquefaction mitigation, the existing surface fill (if, any) and dark gray silty clay should be subexcavated and replaced with engineered fill.

Fill imported to the site to raise site grades and for use beneath concrete slabs-on-grade should generally meet select quality. Select fill is also defined in the Site Grading section.

Because of the presence of groundwater beneath the site, and the potential for a high capillary rise from the groundwater table, we recommend that vapor-retarding systems be installed beneath concrete slabs-on-grade within living and working spaces. The vapor retarder should consist of a capillary break of gravel, at least 4 inches thick, and a sturdy membrane at least 10 mil thick. It is our view that the membrane should be continuous beneath the entire slab. If continuity is not possible, the membrane should be taped or fastened to the sides of the grade beams and footings. Tears and rips in the membrane should be repaired, and openings for plumbing and conduits should also be taped. Other means for

reducing the potential for water vapor to work through the slab may also be considered, such as using a low water cement ratio in the slab concrete. We also discouraged using moisture sensitive floor coverings, unless it can be shown that moisture working to the surface of the slab would not be detrimental to the coverings, or that testing demonstrates that the moisture flux through the slabs is less than the floor covering manufacturer's recommendations for their coverings.

We recommend that our slabs on grade be reinforced with reinforcing bars and not welded wire mesh. It has been experienced that mesh if often rendered useless as a reinforcing element during construction.

4. Site Preparation and Grading

After site demolition is completed, the site should be subexcavated and the subexcavations backfilled with engineered fill as described in the Liquefaction section of this report, or the liquefiable sandy soils treated by another method.

Placement and compaction of the select fill should be carried out under the observation of the engineering technician, and field density tests should be made in the compacted fills and backfills to verify that the compaction density is adequate.

Fills placed on the site should be engineered. We define engineered fill as soil and/or soil and rock mixtures with particle sizes not exceeding 6 inches in maximum dimension, placed in relatively thin layers, moisture conditioned as described below, and compacted to a minimum degree of 95%. The subgrade in areas that will receive vehicle traffic should also be compacted to a minimum degree of compaction of 95% at the subgrade level. The degree of compaction should be based upon the ASTM D1557 Standard D1557.

We recommend that the placement moisture content of all fills comprised of clayey soils be at least 1% above the optimum moisture content. The optimum moisture content should also be based upon the ASTM Standard D1557.

With the possible exception of the dark gray surface soils, we generally believe that the on-site fills will be suitable for reuse as engineered fill. If project planning requires fill be imported to the site, we recommend it meet select fill

quality. Select fill is soil with a plasticity index of 12 or less, and whose content of clay is less than 25% of the total volume of the imported soil.

We anticipate that the existing asphalt concrete covering the site will be demolished and broken up as part of the site preparation. Provided that the broken asphalt concrete fragments do not exceed 6 inches of maximum dimension, and no more than 15% exceeds 2-1/2 inches of maximum dimension, we believe that it would be reasonable to use the fragments in the site fills, provided they are mixed with the other subexcavated fill. Reuse of the aggregate base that underlies the asphalt concrete would also be suitable as well.

We recommend that the utility trench backfills also be compacted. We note that jetting the backfills probably would not prove satisfactory, and do not recommend jetting as a means for densifying the backfills. The backfill should be compacted to a minimum degree of compaction of 90% to within 3 feet of finished grade and 95% thereafter.

Grading on the site should be carried out in accordance with the attached Guide Specifications for Engineered Fill.

5. Site Drainage

Runoff should be prevented from ponding near the building foundations. It is our opinion that runoff should be collected in downspouts and yard drains and be conveyed in tightline pipes to project storm drains.

6. Construction Observation and Further Services

We recommend that our firm be retained to review building plans for the project in order to assess whether the design criteria presented in this report have been correctly incorporated into the project plans. In this regard, we suggest that the members of the project design team consult with us on an as-needed basis to answer any questions that may arise regarding the design criteria.

Our firm should be retained to be on site when excavations are being made. The purpose of our site observations would be to verify that exposed materials are consistent with our expectations, and are the supporting materials as defined in the soil report. Being on site will also enable us to provide recommendations for

changes to the project if conditions different from those anticipated are encountered during construction.

We recommend that our firm be retained to provide construction observation and testing services in connection with the placement and compaction of engineered fills. A technician should be on site while the fills are being placed and being compacted, and both field and laboratory tests should be made to verify that recommended minimum degrees of compaction are being achieved in the field.

7. Pavements

We anticipate project pavements will be comprised of asphalt concrete.

In areas traversed only by automobile and pickup truck traffic, we judge that a section comprised of 3 inches of asphalt concrete over 8 inches of aggregate base should be adequate.

The pavement section for truck traffic should be designed for the size of the trucks, the amount of truck traffic and the "R" value of the pavement subgrade. We suggest that the "R" value be determined from test(s) performed on the subgrade soils after site demolition and grading have been completed. The pavement section for truck traffic could then be determined.

Aggregate base should comply with Section 26 of the CALTRANS Standard Specifications. It should be compacted to a minimum degree of compaction of 95%.

LIMITATIONS

The conclusions and opinions in this report are based on visual examinations of the property and on the subsurface exploration described in this report. While, in our opinion, this investigation adequately discloses the soil conditions across the site, the possibility exists that there are anomalies or changes in the soil conditions that were not discovered by this investigation. Should such items be discovered during construction, our office should be notified immediately so that any necessary supplemental recommendations can be made.

This study was not intended to disclose the locations of any existing utilities, septic tanks, leaching fields, or other buried structures. The contractor or other people working on this project should locate these items, if any.

This report was prepared to provide engineering opinions and recommendations only. It should not be construed to be any type of guarantee or insurance.

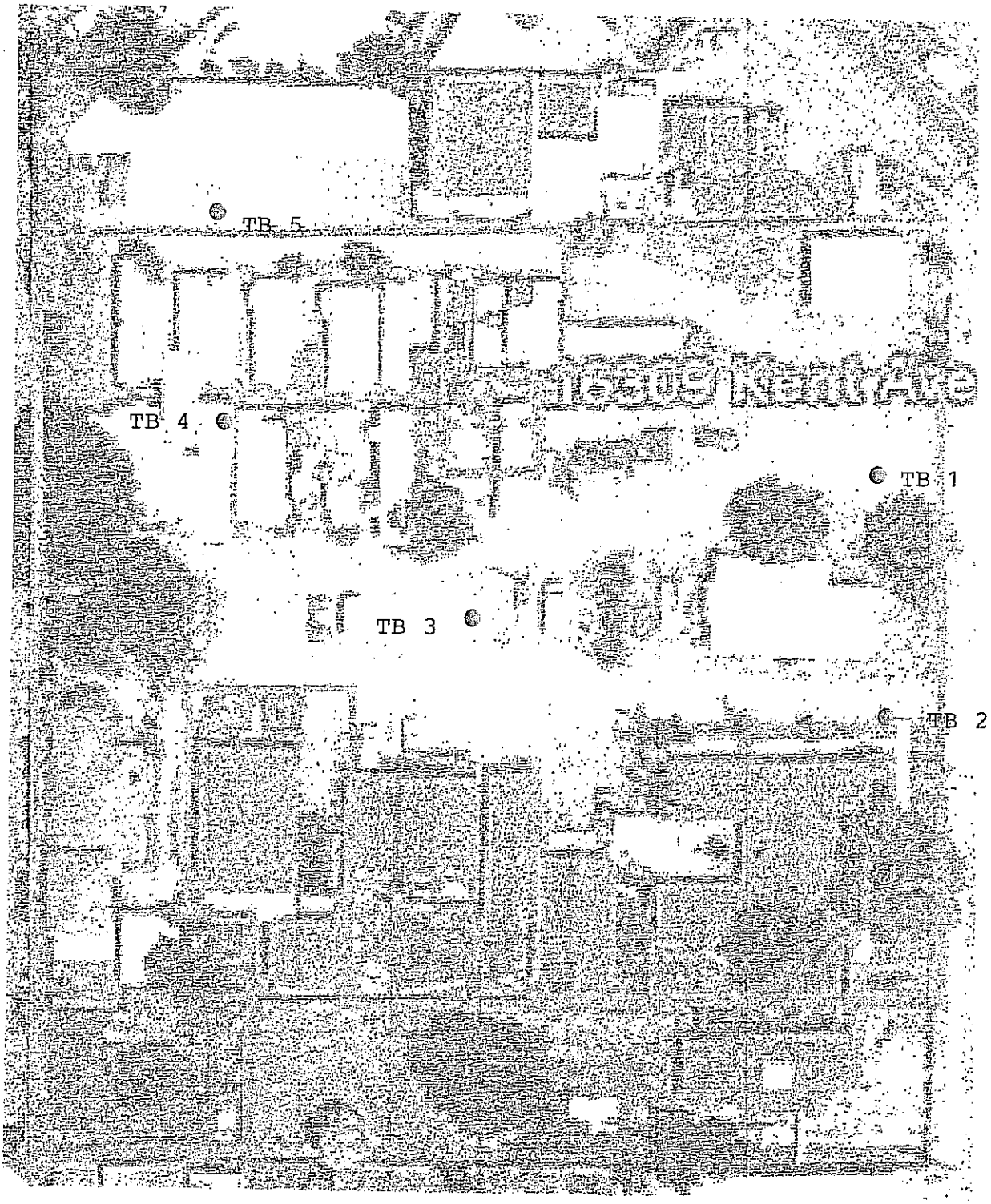
REFERENCES

Idriss, I.M., Boulanger, R.W., Soil Liquefaction During Earthquakes, Earthquake Engineering Research Institute, 2008.

Seismological Research Letters, Vol 68 (1997)

USGS Web Site – http://earthquake.usgs.gov/research/hazmaps/design/index.php

Youd, T.L, et al., "Liquefaction Resistance of Soils: Summary Report fro the 1996 NCEER and 1998 NCEER/NSF Workshops on Evaluation of Liquefaction Resistance of Soils[a], ASCE JG and GE, October 2001, Vol. 127, No. 10[a]



Note: Boring Locations are Approximate

N

Scale 1"= 50'

Jensen – Van Lienden Associates, Inc.		
Boring Location Plan 16309 Kent Ave. San Lorenzo, CA		
Date 5/2011	Figure 1	Job No. X126AA

Jensen – Van Lienden Associates, Inc.
GEOTECHNICAL CONSULTANTS

Log of Boring Number 1

Ashland Housing
16309 Kent Avenue
San Lorenzo, California

SUPERVISOR: CNJ
DATE DRILLED: May 10, 2011
DRILLING METHOD: 6 solid stem auger
SAMPLING METHOD: Drive with 140# hammer
SURFACE ELEVATION: Not Measured
GROUNDWATER DEPTH: 7 1/2' on May 10, 2011

Sample Number	Diameter (in.)	Blows/Foot	Dry Density (pcf)	Moisture Content (%)	Unconfined Compressive Strength (psf)	Depth (feet)	Graphic Log	Description
1	2.4	19	99	22	6900			Medium dense brown sand and gravel over stiff dark gray silty clay
			103	20	3400			Stiff brown and olive brown silty clay
2	2.4	8	96	24	-	5		Grading to very clayey sand to sandy clay
3	2.4	8	83	38	1200	10		Medium stiff to stiff dark gray brown silty clay grades to dark gray
4	2.4	19	-	30	-	15		Stiff olive brown silty clay
5	2.4	23	100	26	4300	20		grades to olive green gray mottled with orange brown below 20'
						25		BOTTOM OF BORING
						30		

Job Number X129AA

Figure 2

Jensen – Van Lienden Associates, Inc.
GEOTECHNICAL CONSULTANTS

Log of Boring Number 2

Ashland Housing
16309 Kent Avenue
San Lorenzo, California

SUPERVISOR: CNJ
DATE DRILLED: May 10, 2011
DRILLING METHOD: 6 solid stem auger
SAMPLING METHOD: Drive with 140# hammer
SURFACE ELEVATION: Not Measured
GROUNDWATER DEPTH: 8' on May 10, 2011

Sample Number	Diameter (in.)	Blows/Foot	Dry Density (pcf)	Moisture Content (%)	Unconfined Compressive Strength (psf)	Depth (feet)	Graphic Log	Description
								Stiff brown very sandy clay with gravel (probable fill)
								Stiff dark gray silty clay
						5		Stiff medium dark brown silty clay
1	2.4	10	97	26	-			grades very sandy and silty with depth
						10		Medium stiff to stiff dark olive gray silty clay
2	2.4	10	81	39	2000			
						15		
3	2.4	29	107	21	-			Very stiff olive brown mottled with dark gray and white silty clay
						20		
								BOTTOM OF BORING
						25		
						30		

Job Number X129AA

Figure 3

Jensen – Van Lienden Associates, Inc.
GEOTECHNICAL CONSULTANTS

Log of Boring Number 3

Ashland Housing
16309 Kent Avenue
San Lorenzo, California

SUPERVISOR: CNJ
DATE DRILLED: May 10, 2011
DRILLING METHOD: 6" Hollow Stem Auger
SAMPLING METHOD: Drive with 140# hammer
SURFACE ELEVATION: Not Measured
GROUNDWATER DEPTH: Not Measured

Sample Number	Diameter (in.)	Blows/Foot	Dry Density (pcf)	Moisture Content (%)	Unconfined Compressive Strength (psf)	Depth (feet)	Graphic Log	Description
								Medium stiff brown gravelly sandy clay over stiff black silty clay
1	2.4	19	96	100	-			
			23	21	-			Stiff gray brown sandy clay
2	2.4	8	104	18	-			Loose brown silty sand with seams of coarse sand
3	2.4	7	80	38	1800	10		Medium stiff to stiff dark gray brown silty clay grades to olive gray brown
4	2.4	14	91	31	2900			Stiff dark gray silty clay
5	2.4	17	93	30	1600	20		Medium stiff to stiff mottled olive green/gray silty clay
6	2.4	12	93	30	-			
7	2.4	11	97	27	1600	30		Medium stiff mottled brown and light gray sandy clay grades to silty clay and olive brown
8	2.4	21	100	26	-	40		
9	2.4	24	101	25	1700	50		BOTTOM OF BORING
						60		

Job Number X129AA

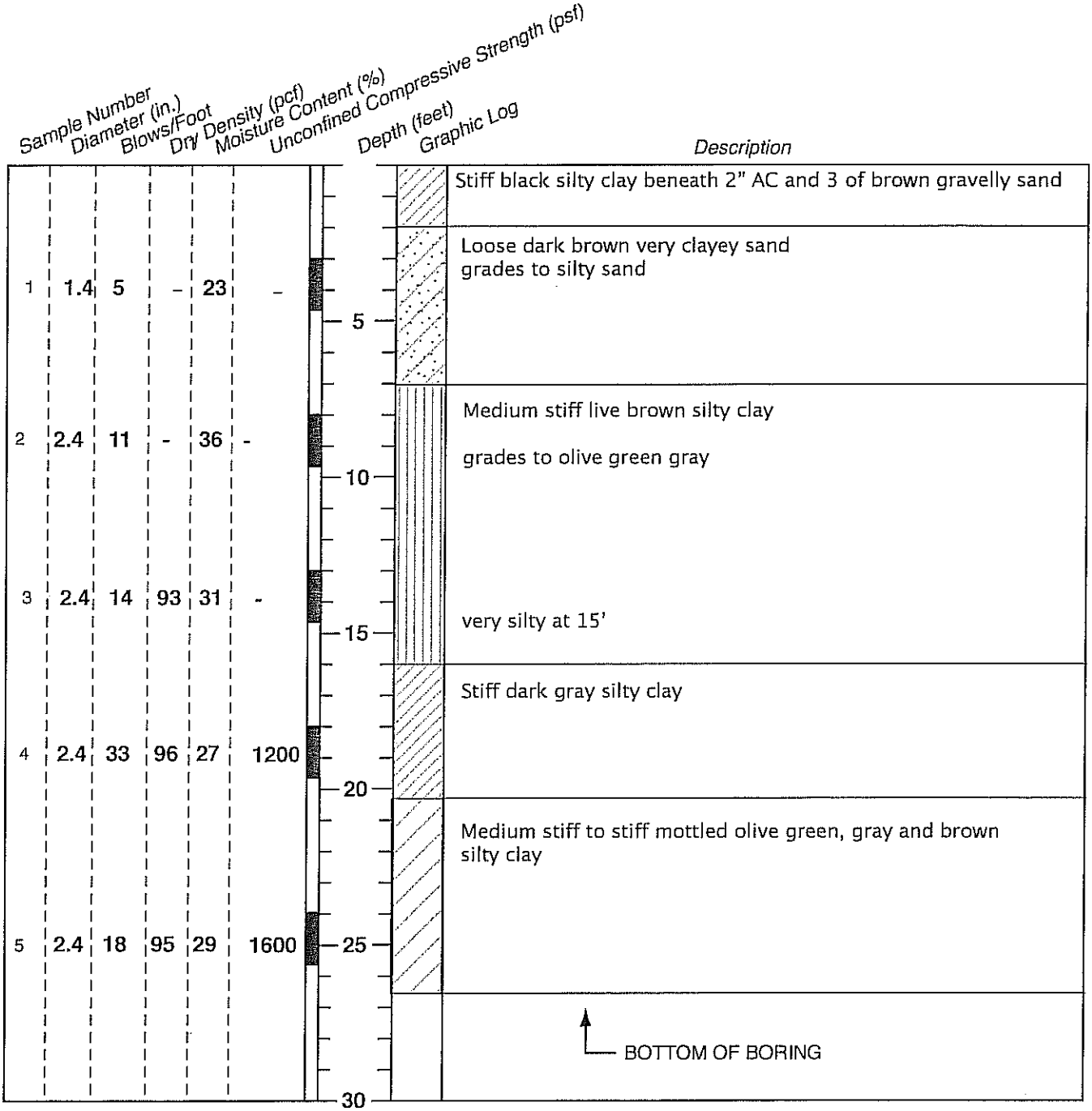
Figure 4

Jensen – Van Lienden Associates, Inc.
GEOTECHNICAL CONSULTANTS

Log of Boring Number 4

Ashland Housing
16309 Kent Avenue
San Lorenzo, California

SUPERVISOR: CNJ
DATE DRILLED: May 10, 2011
DRILLING METHOD: 6 solid stem auger
SAMPLING METHOD: Drive with 140# hammer
SURFACE ELEVATION: Not Measured
GROUNDWATER DEPTH: Approx. 7 ' on May 10, 2011



Job Number X129AA

Figure 5

Jensen – Van Lienden Associates, Inc.
GEOTECHNICAL CONSULTANTS

Log of Boring Number 5

Ashland Housing
16309 Kent Avenue
San Lorenzo, California

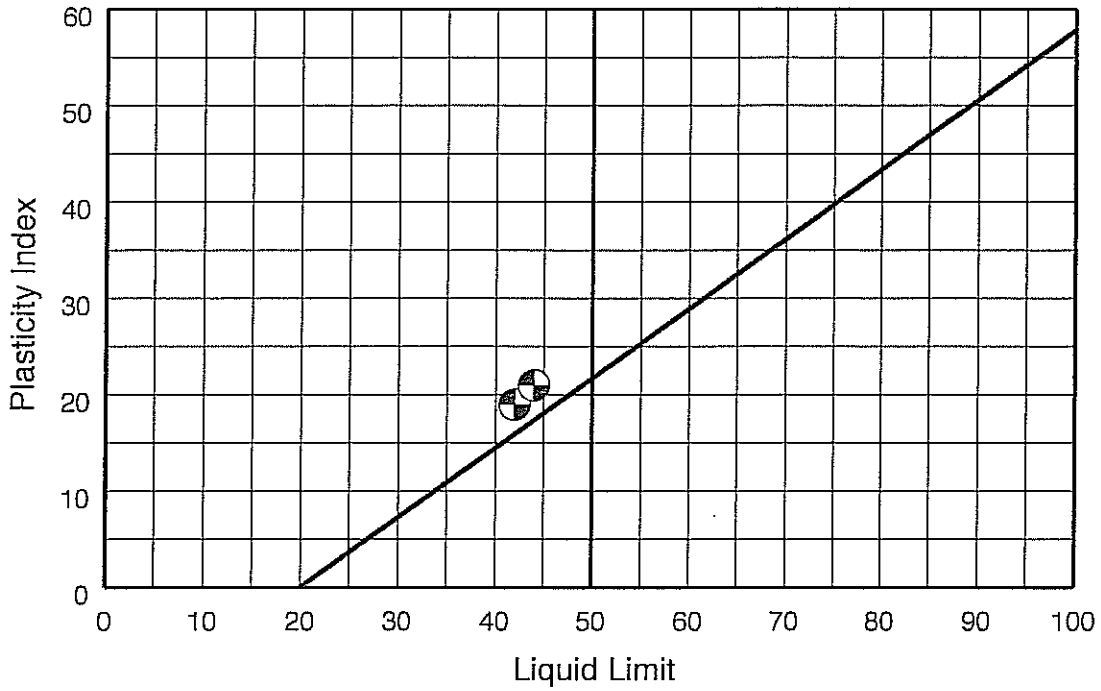
SUPERVISOR: CNJ
DATE DRILLED: May 10, 2011
DRILLING METHOD: 6 solid stem auger
SAMPLING METHOD: Drive with 140# hammer
SURFACE ELEVATION: Not Measured
GROUNDWATER DEPTH: Approx. 5 ' on May 10, 2011

Sample Number	Diameter (in.)	Blows/Foot	Dry Density (pcf)	Moisture Content (%)	Unconfined Compressive Strength (psf)	Depth (feet)	Graphic Log	Description
1	2.4	18	--	20	--			Stiff black silty clay
2	2.4	6	103 100	19 22	-- 5400	5		Stiff dark olive brown very sandy clay Grades to silty and clayey sand at 5.5 feet
3	2.4	13	96	28	2500	10		Stiff dark grey brown to olive brown silty clay
4	2.4	18	103	23	4200	15		Stiff dark grey silty clay
5		8	94	29	--	20		Medium stiff to stiff mottled brown, olive brown and orange brown very silty clay
6	2.4	16	105	22	1700	25		BOTTOM OF BORING
						30		

Job Number X129AA

Figure 6

PLASTICITY CHART



INDEX TEST RESULTS

Sample Identification		Atterberg Limits (%)		Grain Sizes (% Dry Weight)		
Sample No.	Description	Liquid Limit	Plasticity Index	Sand	Silt	Clay
5-1	Black silty clay	44	21	25	41	34
3-1	Dark gray silty clay	42	19	-	-	-
1-2	Brown very sandy clay	-	-	48	29	23
4-1	Brown clayey sand	-	-	71	17	12

Jensen – Van Lienden Associates, Inc.

16309 Kent Avenue
San Lorenzo, California

Date	Figure	Job No.
5/2011	7	X129AA

GUIDE SPECIFICATIONS
FOR ENGINEERED FILL
Job No. X129AA

A. GENERAL

1. Definition of Terms

FILL...is all soil or soil/rock materials placed to raise the grade of the site or to backfill excavations.

ON-SITE MATERIAL...is that which is obtained from the required excavations on the site.

IMPORT MATERIAL...is that hauled in from off-site areas.

SELECT MATERIAL...is a soil material meeting the requirements set forth in "C (2)" below.

ENGINEERED FILL...is a fill upon which the Soil Engineer has made sufficient tests and placement and compaction observations to enable him to issue a written statement that in his opinion the fill has been placed and compacted in accordance with the Soil Engineer's recommendations and/or the specification requirements.

ASTM SPECIFICATIONS...are the Annual Book of ASTM Standards (Part 19), American Society for Testing and Materials, latest revision.

MAXIMUM DRY DENSITY...is the maximum density for a given fill material that can be produced in the laboratory by the Standard procedure ASTM D1557, "Moisture-Density Relations of Soils Using a 10 Pound (4.5 kg) Rammer and an 18 inch (457 mm) Drop".

OPTIMUM MOISTURE CONTENT...is the moisture content at which the maximum laboratory density is achieved using the standard compaction procedure ASTM Test Designation D1557.

DEGREE OF COMPACTION...is the ratio, expressed as a percentage, of the dry density of the fill material as compacted in the field to the maximum dry density for the same material.

2. Responsibility of the Soil Engineer

The Soil Engineer shall be the Owner's representative to observe the grading operations, both during preparation of the site and compaction of any engineered fill. He shall make enough visits to the site to familiarize

himself generally with the progress and quality of the work. He shall make a sufficient number of field observations and tests to enable him to form an opinion regarding the adequacy of the site preparation, the acceptability of the fill material, and the extent to which the degree of compaction meets the specification requirements

3. Soil Conditions

Jensen-Van Lienden Associates, Inc. has performed a soil investigation for the site and a report has been issued by them dated May 18, 2011 covering that investigation. The contractor shall familiarize himself with the soil conditions at the site, whether covered in that report or not, and shall thoroughly understand all recommendations associated with the grading.

B. SITE PREPARATION

1. Stripping

Prior to any cutting or filling in areas to be covered with structures or to be filled with engineered fill, as defined below, the site shall be stripped and grubbed to a sufficient depth to remove all grass, weeds, roots, and other vegetation. The minimum stripping depth shall be 2 inches. The site shall be stripped to such greater depth as the Soil Engineer in the field may consider necessary to remove materials that in his opinion are unsatisfactory. The stripped material shall either be removed from the site or stockpiled for re-use later as topsoil, but none of this stripped material nor any of the building debris may be used in engineered fills.

Trees that are removed shall have their root systems grubbed out and the resulting excavations backfilled with engineered fill.

2. Preparation for Filling

After stripping existing fill and removing demolition debris, areas to be filled shall be overexcavated as recommended in the Soil Report. The overexcavation depth shall be 7 feet below existing grade or the minimum depth called for on the plans or that is required by the Soil Engineer in the field.

The overexcavated soils that are clean and free from organic material can be used later as general engineered fill, provided that dark gray/black near surface clays are thoroughly mixed with the other excavated soils.

After stripping the surface vegetation and overexcavating to required depths, the exposed surface shall be scarified to a minimum depth of 6

inches, watered or aerated as necessary to bring the soil to a moisture content that will permit compaction, and recompacted to the requirements of engineered fill as specified in "D" below. Prior to placing fill, the Contractor shall obtain the Soil Engineer's approval of the site preparation in the area to be filled. The requirements of this section may be omitted only when approved in writing by the Soil Engineer.

C. MATERIAL USED FOR FILL

1. Requirements for General Engineered Fill

The Soil Engineer must approve all fill material. The material shall be a soil or soil/rock mixture that is free of organic matter or other deleterious substances. The fill material shall not contain rocks or lumps over 6 inches in greatest dimension, and not more than 15% by dry weight shall be larger than 2 1/2 inches in greatest dimension. The soils from the site, except the surface strippings, shall be suitable for use as fill.

2. Requirements for Select Fill Material

In addition to the requirements "C (1)" above, select material, when called for on the plans, must conform to the following minimum requirements:

Maximum Plasticity Index 12
Maximum % Finer than .002 mm 25

D. PLACING AND COMPACTING FILL MATERIAL

All fill material shall be compacted as specified below, or by other methods if approved by the Soil Engineer, so as to produce a minimum degree of compaction of 95%.

Fill material shall be spread in uniform lifts not exceeding 8 inches in uncompacted thickness. Before compaction begins, the fill shall be brought to a water content that will permit proper compaction by either aerating the material if it is too wet or spraying the material with water if it is too dry. Each lift shall be thoroughly mixed before compaction to ensure a uniform distribution of water content. Natural clayey soils shall be placed and compacted at a moisture content that is 1% or more above the optimum moisture content.

Any fill where the Soil Engineer does not approve the site preparation, type of material, or compaction shall be removed and/or recompacted by the contractor until the requirements are satisfied.

E. EXCAVATION

All excavations shall be carefully made true to the grades and elevations shown on the plans. The excavated surfaces shall be properly graded to provide good drainage during construction and to prevent ponding of water.

G. TREATMENT AFTER COMPLETION OF GRADING

After grading is completed and the Soil Engineer has finished his observation of the work, no further excavation or filling shall be done except with the approval of and under the observation of the Soil Engineer.

It shall be the responsibility of the Grading Contractor to prevent erosion of freshly graded areas during construction and until such time as permanent drainage and erosion control measures have been installed.

Appendix E – Hazards and Hazardous Materials

- **RGA Environmnental, Inc.** *Limited Asbestos and Lead Survey Report, Ashland Housing Project.* Emeryville, CA : s.n., May 4, 2011. RGA Project No. RCD27554.

- **RGA Environmental Inc.** *Environmental Site Assessment Report, Ashland Housing Project.* Emeryville, CA : s.n., May 13, 2011. RGA Project Number: RCD27554.

- **Blackie, Belinda P.** *Phase I Environmental Site Assessment, Joe Parcel, San Lorenzo, California.* San Jose, CA : s.n., May 8, 2012.

RGA ENVIRONMENTAL

Solutions for a Healthy Environment

SERVICES

Worker Health and Safety

OSHA Training and Compliance

Safety Audits

Ergonomics

IIPP and Specialized Programs

Hazard Communication

Fleet Safety

Indoor Air Quality

Mold Consulting

Moisture Management Plans

Industrial Hygiene

Asbestos and Lead Management

Hazardous Materials

Environmental Site Assessments
Phase I,II III

Risk Management

Subsurface Investigation

Litigation Support

Environmental Site Assessment Report

Ashland Housing Project
16305, 16309, 16325, 16331, and 16333 Kent Avenue
San Lorenzo, California

RGA Project Number: RCD27554

May 13, 2011

Prepared for:

Resources for Community Development
2220 Oxford Street
Berkeley, California 94704

Prepared by:

RGA Environmental Inc.
1466 66th Street
Emeryville, CA 94608

Report prepared by: Belinda Blackie
Belinda Blackie
PE No. 056448, REA No. REA 06746

Report reviewed by: Marlin Bryant
Marlin Bryant
M.S., CAC, Registered Environmental Assessor, CHMM

1. INTRODUCTION

1.1. EXECUTIVE SUMMARY OF FINDINGS

The following is a summary of the Environmental Site Assessment (ESA) findings for the Ashland Housing Project located at 16305, 16309, 16325, 16331, and 16333 Kent Avenue in San Lorenzo, California (Site). This assessment was completed in May of 2011 and is based on a physical inspection of the subject property and improvements, historical research and regulatory agency research, and is in conformance with 40 CFR Part 312, entitled "Standards and Practices for All Appropriate Inquiries; Final Rule". RGA concludes that it is reasonable for Resources for Community Development to construe that, except as expressly set forth below, there are no significant environmental impacts or concerns at the Site as stipulated by 40 CFR Part 312 and industry accepted standards.

The 1.92-acre property, situated on the western side of Kent Avenue south of East 14th Street, was improved with five single-family residences, a converted barn, and multiple mobile homes. Associated asphalt and gravel driveways and parking areas, as well as a carport, several storage sheds, individual restroom structures, and other yard and undeveloped areas were also present on the three parcels comprising the Site. The residences and mobile homes were occupied by private parties at the time of the reconnaissance, and only residential use of the property was observed. Several 1- to 5-gallon containers of assorted paint were observed in the barn as well as outside a storage shed on the western portion of the site. At least one old, rusted 55-gallon drum appearing to contain/have contained oil and several rusted 1-gallon cans of thinner were observed in an overgrown yard area behind the 16325 Kent Avenue residence. An additional old, leaking drum of what appeared to be tar or oil and multiple containers of assorted sizes, both open and closed and appearing to contain oil, were observed in the western portion of the carport at the northwestern corner of the site. Stains on the ground surface and overlying carpet were observed in this portion of the carport as well. The wooden cover of a cistern, which reportedly had been filled with soil, was observed near the center of the site.

As early as the late 1930s, the Site was cultivated with field crops and orchards, with the current barn and several other structures also present. By the mid-1950s to mid-1960s, the majority of the current development was present on the Site. The carport structure was constructed in the late-1940s/early-1950s, the 16325 Kent Avenue residence in 1958, and the 16331 Kent Avenue residence in 1948. The Ashland DeLux Trailer Park was first reported on the Site in 1954. The remainder of the current Site structures appeared present by the late-1980s/early 1990s. A tank house historically present reportedly was demolished in 1953. The area immediately surrounding the Site was similarly cultivated until the late-1940s/early-1950s, when residential development occurred south and east of the Site and commercial development was constructed along East 14th Street. The adjoining Holland Oil facility appeared present by 1965, with the fueling portion of the facility not appearing on the portion of the property adjoining the Site. The current ball fields west of the Site were present by the mid-1960s.

One 350-gallon gasoline underground storage tank (UST) was removed from the property in 1993. The location of the UST was difficult to interpret from the site plan in the documentation, but was depicted at the southwestern corner of the barn. Soil samples collected from beneath the UST and from the stockpiled soil demonstrated non-detectable concentrations of total organic

lead, oil and grease, gasoline, benzene, and halogenated volatile organic compounds (VOCs). Up to 0.048 parts per million (ppm) toluene, 0.004 ppm ethylbenzene, and 0.017 ppm xylenes were detected. Based on the analytical results, the Alameda County Department of Environmental Health (ACDEH) issued a letter in May 1993 stating there was no contaminant problem associated with the former UST at the time of removal. The letter stated that the case could be reopened if evidence of a release was suspected at a future time.

Visual inspection of the subject property did not reveal the presence of stressed vegetation, unusual or noxious odors, or monitoring wells. At the time of the survey, there were no known pending environmental regulatory actions concerning the subject property. No indications of significant spills or releases of hazardous materials were documented in available regulatory agency files. With the exception of several containers of paint and the materials discussed below, hazardous materials and/or wastes were not observed during the Site reconnaissance. Documented prior usage of hazardous materials by Site tenants was not found in the sources available for this study.

Due to the age of construction and the historically rural location of the on-Site residences, heating oil USTs may be present. If a UST is encountered during Site development activities, it must be appropriately removed in accordance with applicable ACDEH requirements, and verification soil sampling and possibly limited excavation and removal of impacted soil could be required.

At least one old, rusted 55-gallon drum appearing to contain/have contained oil and several rusted 1-gallon cans of thinner were observed in the overgrown yard area behind the 16325 Kent Avenue residence. In addition, a second 55-gallon drum leaking a thick tar- or oil-like substance and multiple containers of oily material were observed within the carport at the northwestern corner of the Site. We recommend that these materials, as well as the abandoned vehicle in the overgrown yard area, be appropriately disposed prior to the property transaction as they currently are inappropriately stored and spills/releases from the containers have impacted underlying soil. In addition, we recommend that the overgrown yard area behind the 16325 Kent Avenue residence be cleared of brush and inspected, to ascertain whether additional hazardous materials containers that require disposal may be present, and whether such containers may have leaked and impacted underlying soil.

Visually-impacted soil present at several areas within the carport structure should be excavated and removed from the Site for appropriate disposal. Consideration should be given to collection of verification soil samples from the bottoms of the excavations, to confirm the impacted materials has been adequately removed.

Development of the site with what appeared to be the existing barn, as well as a dwelling, tank house, and additional structures, was documented from at least the late 1930s through the mid-1950s. Many areas with historic structures are found to have residual metals and/or pesticides/herbicides present in soil around the location of the perimeter of the historic structures, attributable to the application of pesticides/herbicides and the flaking of lead-based paint. Since residential development of the Site is planned, consideration should be given to evaluating soil quality in the locations of historic structures. If pesticides and/or metals are found to be present at significant concentrations, appropriate handling and possibly removal or remediation could be required.

In addition to the possible presence of residual metals and/or pesticides/herbicides present in soil, other sub-grade structures including USTs, pipelines, septic tanks, fill materials, buried debris, building materials, and impacted soil also may be present from previous Site development in those areas. If objects such as these are encountered during future development of the Site, special measures for their removal may be required, possibly including soil characterization and/or remediation.

Agricultural cultivation of the Site with field crops and orchards was documented from at least the late-1930s through the late 1940s/early 1950s. Standard agricultural practices also may have included application of agricultural chemicals, possibly including DDT and lead arsenate. Pesticides may have been stored in the current barn or other historic on-Site structures and also may have been mixed in the vicinity of reported historic on-Site well. Since residential development of the Site is planned, consideration should be given to evaluating soil quality in the historically agricultural areas, as well as around the well if located and in the vicinity of the historic structures and barn. If pesticides and/or metals are found to be present at significant concentrations, appropriate handling and possibly removal or remediation could be required.

The historic presence of a tank house on the Site indicates that a water supply well likely was present. A well at the 16331 Kent Avenue property was reported in the disclosure documentation provided by the historic property owner. If, during future construction activities at the Site, a well is encountered, it must be appropriately abandoned in accordance with applicable regulatory agency requirements.

A cistern reportedly is present near the center the Site, for which the former access cover remains visible but access was not available. The cistern reportedly was filled with soil prior to purchase of the property by the current Site owner. During Site demolition activities, removal of the cistern should be conducted and the structure should be evaluated to confirm its use as a cistern. If a use other than water storage is suspected, further evaluation should be conducted.

In the disclosure report prepared by the previous Site owner, the 16331 Kent Avenue property was reported in the proximity of a former or current waste disposal site, and the 16325 and 16331 Kent Avenue properties were indicated as having pipelines carrying oil, gas, or chemicals beneath or adjacent. Further information on these issues was not available at the time this report was issued. We recommend follow-up be conducted with the current property owner, in an attempt to obtain additional information on these reported issues.

Of the environmental databases that were searched, one adjoining, hydraulically down-gradient facility was identified by RGA as having a release of petroleum hydrocarbons to ground water. The off-site former Holland Oil facility currently is an open fuel leak case. Based on ground water monitoring data available for the property, groundwater at the Holland Oil property is flowing away from the subject property. In addition, monitoring data from the closest Holland Oil property ground water monitoring well to the subject property indicated no contaminants present in ground water during monitoring events in 2008 and 2009. Based on the available data, the former Holland Oil property is not considered to be an environmental risk to the Site.

This summary shall not be used alone. The report must be read in its entirety.

SUMMARY OF FINDINGS

Property Name: Ashland Housing Development
RGA Project Number: RCD27554
Construction Date: Most between late-1940s and early-1960s
Property Type: Residential
Street Addresses: 16305, 16309, 16325, 16331, 16333, and 16333A Kent Avenue
City: San Lorenzo
State: California
Zip Code: 94580

ISSUE	PRESENT? (YES/NO)	TEXT PAGES	ADDITIONAL COMMENTS
ON-SITE ASTs	No	N/A	
ON-SITE USTs	No	13	Historically present, removed in 1993; closure letter from ACDEH.
HIGH VOLTAGE POWER LINES	No		Not located within 300 feet of Site boundaries.
ON-SITE CONTAMINATION	Yes	9,19	Small areas of stained soil due to releases from improperly stored oily waste and dripping vehicles. Possible residual pesticides and metals from historical structures and agricultural cultivation.
OFF-SITE CONTAMINATION	Yes	16	On-going remediation at adjoining former Holland Oil facility. Facility located down-gradient from Site and based on available data, not considered to be an environmental concern.
ELEVATED RADON	No		
LEAD-BASED PAINT	Likely		Lead paint survey conducted and issued under separate cover.
PROPERTY-OWNED PCB EQUIPMENT	No		
ACM	Likely		Asbestos survey conducted and issued under separate cover.
PAST OR CURRENT USE:			

DRY CLEANERS	No		
GAS STATION	No		
INDUSTRIAL/ MANUFACTURING	No		
AUTO MAINTENANCE/ REPAIR	No		
LANDFILL/DUMP	No		
UNDOCUMENTED FILL	No		
LEAD IN WATER	No		
INDOOR AIR QUALITY	No		
MOLD/WATER ISSUES	No		
OTHER ISSUES	Yes	21	Refer to conclusions in Section 8 for complete summary of potential environmental concerns with Site

1.2. PURPOSE AND ASSUMPTIONS

This ESA is intended to serve as an appropriate, commercially prudent and reasonable inquiry regarding releases or threatened releases of hazardous substances on, at, in or to the property that would be the subject of a response action for which a CERCLA liability protection would be needed. This report will permit Resources for Community Development (RCD) to satisfy one of the requirements to qualify for one of the landowner liability protections (LLPs) as defined under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) at Title 42 of the United States Code (U.S.C.) §9601(35)(B) and in accordance with 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries; Final Rule (AAI Rule).

The conclusions presented in this report are professional opinions based on the data described herein. They are intended only for the subject property, and apply only to conditions existing at the time of our study. This report does not provide the level of detail necessary to be utilized for structural demolition or remodeling, or soil and ground water remediation. Changes in applicable standards can occur as the result of legislation or broadening knowledge that may invalidate, wholly or in part, the findings of this report. This report may contain records or database information misidentified by federal, state or local agencies.

1.3. INVOLVED PARTIES

Belinda Blackie[1] performed the Site investigation and research and prepared the report. Marlin Bryant[2] reviewed the report.

1.4. SCOPE OF WORK

To satisfy the requirements of the standards presented in 40 CFR Part 312, RGA performed the following tasks as part of this ESA.

Site Reconnaissance – Conducted a Site reconnaissance to determine whether environmental contaminant impacts or concerns are present at the Site. Inspected neighboring properties, to the degree possible without trespass, for land uses or other aspects that indicate environmental contaminant impacts or concerns that could adversely affect the Site.

Historical Research - Obtained and reviewed historical aerial photographs, historical Sanborn Fire Insurance Maps, historical topographic maps and city directory abstracts to ascertain, to the extent practicable, prior Site use and operations. Interviewed individuals with knowledge of the Site to obtain information regarding the potential for environmental concerns or historical environmental concerns.

Records Review – Obtained and reviewed governmental agency records that identify releases or threatened releases of hazardous substances on, at, in or to the property. The minimum search distances conform to ASTM recommendations for standard and additional environmental record sources.

Evaluation and Report Preparation – Prepared this report detailing the findings associated with each of the above-listed tasks.

2. GENERAL SITE CHARACTERISTICS

2.1. LOCATION

The subject property is located on the western side of Kent Avenue, southwest of East 14th Street, within unincorporated San Lorenzo and Alameda County (refer to Appendix 1, Site Location Map). The Site is comprised of three parcels comprising an irregularly-shaped, 1.92-acre property identified as Assessor Parcel Numbers (APNs) 080C-0479-022, 080C-0479-023-1, and 080C-0479-023-2. The Site has approximately 250 feet of frontage along Kent Avenue and extends approximately 300 feet perpendicularly to the western property line. Ownership of the parcel is vested in Thomas M. Eplin, 3549 East Avenue, Hayward, California 94542.

[1] California Professional Engineer, California Registered Environmental Assessor, Environmental Professional as defined in 40 CFR Part 312

[2] ???Certified Hazardous Materials Manager, California Certified Asbestos Consultant, California Registered Environmental Assessor, California DHS Certified Lead Inspector/Assessor

2.2. ADJACENT PROPERTIES

North and Northeast:	EAST 14TH STREET 16349 EAST 14TH STREET, SAN LEANDRO: NATIONAL GLASS TINTING COMPANY 16375 EAST 14TH STREET, SAN LEANDRO: BAY SIGNS 16384 EAST 14TH STREET, SAN LEANDRO: COMMERCIAL CENTER
South:	Kent Avenue: Single-family residences and undeveloped yard area
West:	16278 Ashland Avenue: Edendale Park 16160 Ashland Avenue: Edendale Middle School (playfields)
East:	16411 East 14th Street, San Leandro: Supermercado La Raza Kent Avenue: multi-family residential developments

The relative locations of the adjoining properties are included in the Site Plan in Appendix 1. Based on visual observation, there was no evidence of spilled or released hazardous materials on any of the immediately adjacent sites which may impact the subject Site.

2.3. SITE DESCRIPTION AND CURRENT USE/OPERATIONS

At the time of the reconnaissance, the Site was improved with five single-family residences (16305, 16325, 16331, 16333, and 16333A Kent Avenue), a converted barn, and multiple mobile homes (16309 Kent Avenue). Associated asphalt and gravel driveways and parking areas, as well as a carport, several storage sheds, individual restroom structures, and other yard and undeveloped areas were also present on the Site. Square footages for the structures are summarized in the table below. The residences and mobile homes were occupied by private parties at the time of the reconnaissance, and only residential use of the property was observed. The permanent buildings on the Site (residences and barn) were of wood-frame construction.

Site Address/Building Type	Square Footage
16305 Kent Avenue/Residence	960 sq. ft.
16309 Kent Avenue/Mobile Homes	Variable
16331 Kent Avenue/Residence	3,000 sq. ft.
16333 Kent Avenue/Residence	900 sq. ft.
16333A Kent Avenue/Residence	900 sq. ft.
Kent Avenue/Barn (finished as a residential unit)	1,200 sq. ft.

Carport	2,500 sq. ft.
Shower/Toilet Structures	6 @ 100 sq. ft. 1 @ 140 sq. ft.

The Site use was residential. With the exception of assorted containers of paint, at least two aged 55-gallon drums appearing to contain/have contained oil, several rusted containers of thinner, and multiple open and closed containers appearing to contain oil located in several areas of the Site, the present use of the subject property does not include, and is not associated with, the storage and handling of hazardous substances or the generation of hazardous waste.

3. ENVIRONMENTAL SETTING

3.1. TOPOGRAPHIC CONDITIONS

According to Google Earth aerial photography of the Site, dated 2010, the Site is situated at an elevation of approximately 40 to 43 feet above mean sea level. The local terrain is relatively flat, sloping very gently towards the east.

3.2. GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

The property is situated east of San Francisco Bay within the Coast Range geomorphic province. The Coast Range geomorphic province is comprised of a series of northwest-trending mountain ranges and valleys, extending subparallel to the San Andreas Fault. The eastern border of the Coast Ranges, in the vicinity of the subject property, is characterized by strike-ridges and valleys comprised of Upper Mesozoic strata (California Geological Survey 2002). Site soils have been characterized by the U.S. Department of Agriculture's Soil Conservation Service as Danville soils, consisting of fine-grained silty clay loam to depths of at least 7 feet (EDR 2011).

The Site is located within the East Bay Plain aquifer system. Based on depth to ground water information for an adjoining property located north/northwest of the Site, ground water occurs at depths of approximately 6 to 8 feet beneath ground surface. The ground water flow direction was indicated as generally towards the northwest (Ninyo & Moore 2010).

3.3. WETLANDS

According to the U.S. Fish and Wildlife Service, National Wetlands Inventory, no part of the subject property has been designated as a wetland. No designated wetlands were depicted within 1 mile of the Site. The Site is situated on a relatively flat parcel of land and no stream channels, ponds or vernal depressions were observed on or adjacent to the property during the Site reconnaissance.

4. RESULTS OF THE SITE INVESTIGATION

4.1. SITE INSPECTION AND OBSERVATIONS

Photographs were taken to document the features and environmental conditions of concern observed during the site inspection, and are included in the appendices section of this report.

Drums, Containers and Storage Tanks

Two 55-gallon drums were observed on the Site at the time of the reconnaissance. One aged, rusted drum with an attached hand pump was observed lying on its side in an overgrown yard area south of the 16325 Kent Avenue residence. The drum had a faded "Chevron" label on the side. A second aged drum was observed on a piece of carpet atop the soil surface of the carport on the northwestern corner of the Site. The drum was perforated near the base and a hardened tar-like substance was observed coming from the hole.

Multiple containers of assorted sizes (approximately 1- to 5-gallons), both open and closed and appearing to contain oil or similar material, were observed in the western portion of the carport, in the vicinity of the 55-gallon drum. Some of the containers appeared damaged or smashed. Old carpet was observed beneath some of the containers; others were present on the ground surface. Several 1- to 5-gallon containers of assorted paint were observed on the concrete floor in the garage area of the barn; one gallon-can of paint also was observed on the soil outside a storage shed on the western portion of the site. Several rusted 1-gallon cans of thinner were observed in a wooden box elevated on a stand of some sort in the overgrown yard area behind the 16325 Kent Avenue residence.

Evidence of Waste Disposal

Dumps, pits, ponds, landfills, borrow pits or lagoons which may have been used for disposal purposes were not observed during the Site inspection. There was no visible or inferential evidence of on-Site hazardous waste disposal, with the exception of the apparent abandonment of the drum and thinner cans in the yard area south of the 16325 Kent Avenue residence and the drum and containers of oil in the carport at the northwestern corner of the Site. Roads or trails with no apparent outlet or purpose were not identified on or adjacent to the subject parcel.

Sanitary waste is piped into the municipal sanitary sewer system mains for disposal through the Oro Loma Sanitary District. There are no septic tanks reported on the property.

Surface Fill

The elevation of the property conforms to the surrounding grade, and no obvious areas of surface fill were observed during the Site reconnaissance.

Surface Staining and Stressed Vegetation

Numerous areas of surface staining were observed across the Site. An approximately 2½-foot diameter area of stained asphalt was observed along the front (east side) of the barn. No source for the staining was observed. Multiple stained areas of soil and carpet overlying the soil were observed within the carport. The majority of the staining was observed in the vicinity of the drum and oil containers in the western portion of the carport, appearing to be the result of leaks and spills from the containers. Additional areas of stained soil/gravel, from approximately 6-inches to 3-feet in diameter, were observed in other locations within the carport. These stains appeared likely to be the result of vehicle leaks. Soil in the overgrown yard area where the additional drum and thinner

containers were observed was not able to be observed due to the thick weed growth. No stressed vegetation was observed on the subject Site.

High Voltage Transmission Lines

No high-voltage electrical transmission lines or substations are located within 300 feet of the subject property. On the map provided in the EDR radius report (discussed in following Section 6.1), 230 kilovolt (kV) power lines were depicted approximately 1/4-mile and 2/3-mile northwest of the Site (EDR 2011).

Transformers

Pole-mounted transformers which may contain polychlorinated biphenyls (PCBs) were not observed on power poles on the subject site, with the exception of one power pole along the western site boundary near the 16305 Kent Avenue residence. The Site and surrounding area are served by electrical service provided through Pacific Gas and Electric Company (PG&E).

Air Stacks, Vents, and Odors

No air stacks or vents were observed on the subject structures, with the exception of typical residential and mobile home roof venting. No strong, pungent or noxious odors were noted during the site inspection however a slight chemical odor was noted upon entering the residential portion of the barn.

Surface Drainage

A surface water drainage system was not observed. Storm water likely would percolate into the exposed ground surface across on the majority of the Site. No storm drainage appeared to flow onto the Site from surrounding properties.

Evidence of Underground Storage Tanks

No evidence of underground storage tanks (USTs) such as dispensers, fill ports, vent pipes, access covers, patched areas of asphalt or cement, surface depressions, monitoring wells or petroleum/chemical odors were apparent during the subject property inspection. However, detailed inspection of the exteriors of the residential structures and was not able to be performed due to the presence of fences and occupancy of private residences by tenants, and additional areas of the Site were covered with thick vegetation.

It should be noted that a UST historically was present adjacent to the on-Site barn, removed in 1993. A summary of information relating to the historic USTs is included in Section 4.2.3.

Cistern

What was reported to be an abandoned cistern was observed near the center of the Site. The sub-grade cistern was covered with a hexagonal wooden lid that was unable to be removed. According to Mr. Dan Eplin, grandson of the property owner, the cistern was approximately 2 feet deep and had been filled with soil prior to his grandfather's purchase of the property.

Conduits to Groundwater

No water wells, dry wells, shafts or other obvious conduits to groundwater were observed on the subject property.

Evidence of Improper Waste Discharge

Spilled materials from the containers present in the carport were observed to have stained underlying soil, gravel, and carpet, as discussed previously.

Microbial Growth

Interiors of the residences and trailers were not observed. Interiors of the shower/toilet structures were in disrepair with potential water damage to building materials.

On-Site Environmental Management Practices

The Site inspection addressed the following environmental management practices.

Hazardous Substances

No reportable quantities of hazardous substances were observed at the Site. Several 1- to 5-gallon containers of assorted paint were observed in the barn as well as outside a storage shed on the western portion of the site. At least one old, rusted 55-gallon drum appearing to contain/have contained oil and several rusted 1-gallon cans of thinner were observed in an overgrown yard area behind the 16325 Kent Avenue residence. An additional old, leaking drum of what appeared to be tar or oil and multiple containers of assorted sizes, both open and closed and appearing to contain oil, were observed in the western portion of the carport at the northwestern corner of the site. Stains on the ground surface and overlying carpet, associated with the containers/drum, were observed in this portion of the carport as well.

Hazardous Waste

Current Site use is not associated with the generation of hazardous waste. Hazardous waste was not observed at the Site at the time of the reconnaissance, with the exception of the materials described in the previous section.

Treatment Facilities

No evidence of wastewater disposal or treatment facilities was observed on the Site.

Application of Pesticides, Herbicides or Fertilizers

No evidence of the misuse of pesticides, herbicides, or fertilizers was observed on the subject property during the Site reconnaissance. Historical records indicate cultivated agricultural use of the property from at least 1939 through the early-1950s.

General Environmental Practices

No indications of adverse environmental practices were observed on the Site, with the exception of the waste containers discussed previously.

4.1.1. ASBESTOS

A pre-demolition asbestos survey of the permanent on-Site buildings is being conducted concurrent with this ESA and will be issued under separate cover.

4.1.2. LEAD IN PAINT

A pre-demolition lead-based paint survey of the permanent on-Site buildings is being conducted concurrent with this ESA and will be issued under separate cover.

4.1.3. LEAD IN SUPPLIED WATER

Drinking water from the Site was not sampled as part of this study. The East Bay Municipal Utility District (EBMUD) is the domestic water provider for the subject property. RGA obtained a copy of the 2009 Annual Water Quality Report from the EBMUD website, which reported that lead was beneath allowable levels in the drinking water supplied. A copy of the EBMUD annual water quality report is included in Appendix C.

4.1.4 RADON

Site-specific radon testing was not conducted as part of this assessment.

Federal and State radon screening test data for the Site, reported by zip code (94580), were included in the EDR radius map referenced in following Section 6.1. Based on the provided radon data, 49 Federal and 10 State radon screening tests have been performed in the Site zip code. None of the State results indicated radon concentrations exceeding the EPA action level of 4.0 pCi/L. Radon concentrations reported in the Federal tests averaged 0.776 pCi/L in the first floor living area, -0.400 pCi/L in the second floor living area, and 1.338 pCi/L in the basement. Alameda County has been designated within Federal EPA Radon Zone 2, indicating indoor average radon levels between 2 pCi/L and 4 pCi/L.

4.2. USER SUPPLIED INFORMATION

4.2.1. USER INTERVIEW

Ms. Aditya Potluri of RCD, the User of this ESA, was provided with an environmental questionnaire to obtain current and historic information relating to the Site. The questionnaire was completed on April 25, 2011 and is included in Appendix 4.

Ms. Potluri stated that she understood from the seller of the property that USTs had been removed from the Site. She provided UST removal documentation, which is summarized in following Section 4.2.3. The Ashland Youth Center property (former Holland Oil facility) located north of the subject property was reported by Ms. Potluri to have been contaminated and recently remediated. No further information was provided.

4.2.2. REVIEW OF PREVIOUSLY-PREPARED DOCUMENTS

The following previously-prepared document regarding the subject property was provided for review by the User.

- *Application for Policy of Title Insurance*, North American Title Company, March 22, 2011.

Based on review of the title report, title to the subject property is vested in Thomas M. Eplin. An easement for utilities, pedestrians, vehicles, and animals is recorded on one parcel, appearing to allowing access to the 16327 residence located generally within the subject property. Assorted tax liens and deeds of trust also are recorded for the property, for money owed.

4.2 OWNER SUPPLIED INFORMATION

4.2.3. OWNER INTERVIEW

Mr. Mike Ahern, property broker for the current property owner Mr. Tom Eplin, was provided with an environmental questionnaire to obtain current and historic information relating to the Site. Mr. Ahern completed the questionnaire with information provided over the telephone by Mr. Eplin on May 9, 2011. A copy of the completed questionnaire is included in Appendix 4.

Mr. Eplin reported no knowledge of contamination, spills, or releases present at the subject property, which he stated to be rental property. Removal of an old gas tank was reported. An oil company reportedly was historically located in the immediate vicinity of the Site.

Mr. Dan Eplin, grandson of property owner Tom Eplin, was interviewed regarding current and historic use of the Site at the time of the reconnaissance on April 29, 2011. Mr. Eplin had very limited knowledge of the Site, but provided information on the cistern discussed previously. In addition, he stated that the barn on the property is an historic structure.

4.2.4. REVIEW OF PREVIOUSLY-PREPARED DOCUMENTS

The current property owner provided RGA, through the User, with the following previously-prepared documents regarding the subject property.

- *JCP-LGS Commercial Property Disclosure Report for Alameda County, 16309 Kent Avenue, San Lorenzo, Alameda County, CA*, JCP-LGS Disclosures.Com, April 20, 2011.

- *Supplement to the Real Estate Transfer Disclosure Statement, 16331 Kent Avenue and 16325 Kent Avenue, San Lorenzo*, William and Eleanor Massie, May 24, 2000.

- *Tank Removal Activity Report, Job Location: Eleanor Massie, 16325 Kent Avenue, San Lorenzo, California 94580*, Semco, May 13, 1993.

According to the UST removal documentation provided, one 350-gallon gasoline UST was removed from the property in April 1993 under Alameda County Department of Environmental Health (ACDEH) and Eden Consolidated Fire Protection District oversight. The location of the UST was difficult to interpret from the site plan in the documentation, but was depicted at the southwestern corner of the barn. The UST reportedly had no observable holes, but the tank pit had a strong odor of paint thinner. Following removal of the tank, one soil sample reportedly was collected from a depth of 7 feet beneath the former tank and a second sample was collected from the excavated soil spoils. Both soil samples demonstrated non-detectable concentrations of total organic lead, oil and grease, gasoline, benzene, and halogenated volatile organic compounds (VOCs). The sample from beneath the tank contained 0.008 parts per million (ppm) toluene and 0.012 ppm xylenes; the sample from the stockpile contained 0.048 ppm toluene, 0.004 ppm ethylbenzene, and 0.017 ppm xylenes. Based on the analytical results, the ACDEH issued a letter in May 1993 stating there was no contaminant problem associated with the former UST at the time of removal. The letter stated that the case could be reopened if evidence of a release was suspected at a future time.

The Supplement to the Real Estate Transfer Disclosure Statement documentation reportedly was obtained by the current property owner at the time of property purchase. The previous Site owners were William and Eleanor Massie and Bernard Madrid. The documents were for the 16325 and 16331 Kent Avenue addresses. According to the disclosures, the 16325 Kent Avenue structure was constructed in 1958 and the 16331 Kent Avenue structure was constructed in 1948. The use of lead-based paint on the structures and presence of asbestos on heating ductwork was indicated as probable. The 16331 Kent Avenue property was reported in the proximity of a former or current waste disposal site. Both properties were indicated as having pipelines carrying oil, gas, or chemicals beneath or adjacent, and the 16325 Kent Avenue property was reported as having an easement for a pipeline on or adjacent. A crawlspace was indicated as present beneath the 16331 Kent Avenue residence. Public water supply was indicated for both residences, however a well also was indicated on the form for the 16331 Kent Avenue property. At the time of the disclosure statement, the 16331 Kent Avenue residence reportedly was obtaining PG&E and EBMUD service from the adjacent 16333 Kent Avenue residence.

Additional information on the reported well, vicinity waste disposal site, and the oil/gas/chemical pipeline indicated in the disclosure documents was requested from the Owner through the User, but a response had not been obtained at the time this report was issued.

The Property Disclosure Report indicated that the Site is located within a liquefaction zone pursuant to Section 2696 of the Public Resources Code. The Site also is located within a Younger Alluvial Fan for Soils hazard area based on County-level determinations.

4.3. ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

A search for Environmental Deed Restrictions (Liens and Activity Use and Limitations) was conducted by RGA, Inc. by accessing the California Department of Toxic Substances Control (DTSC) Envirostor website, which identifies properties with environmental deed restrictions. Neither the subject property nor any of the adjacent properties were documented in this source.

In addition, EDR was contracted to provide a search of the Site APNs for associated

environmental liens. According to the report, dated April 20, 2011, no environmental liens or other activity and use limitations were recorded for the Site. The Deed recorded for the subject Site indicated that Thomas and Ella Eplin received title to the property from Robert and Carole Madrid in August 2000. A copy of the EDR document is included in Appendix 5.

5. ADJACENT SITE AND VICINITY OBSERVATIONS

The Site vicinity to the north and east largely is commercial, with largely residential properties present south and southeast and school/park use to the west. Properties adjacent to the Site included sign making (16375 East 14th Street) and glass tinting (16349 East 14th Street) businesses to the north, single-family residences along Kent Avenue to the south, ball fields of Edendale Park (16278 Ashland Avenue) and Edendale Middle School (16160 Ashland Avenue) to the west, and a grocery store (16411 East 14th Street) and commercial/office buildings (16378 and 16384 East 14th Street) to the east. RGA did not physically survey each of the adjacent properties, however a limited visual inspection was conducted from the exterior property boundaries. Observation of the remaining adjacent developments did not reveal the obvious presence of underground or above ground storage tanks containing hazardous materials, drums containing unknown quantities or types of hazardous or solid wastes, material spills, chemicals or other raw materials spills, pits or sumps, stressed vegetation, unusual or noxious odors or disposal or dry wells.

6. RESULTS OF REGULATORY AGENCY DATABASE REVIEW AND LOCAL AGENCY FILE RESEARCH

6.1 REGULATORY AGENCY DATABASE REVIEW

The purpose of the regulatory records database review is to obtain and review reasonably ascertainable records that will help identify releases or threatened releases of hazardous substances on, at, in or to the property that would be the subject of a response action for which a CERCLA liability protection would be needed. For this review, a record search was obtained from EDR. The minimum search distances required for each database in the ASTM E1527-05 Standard were utilized by EDR in the preparation of the report. The EDR summary report with a complete listing is included in Appendix 6.

The following primary databases were researched for environmental contamination sources that may affect the subject property:

National Priority List (NPL)

The U.S. Environmental Protection Agency (EPA) maintains this list under the Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) 42 U.S.C. Section 9601 (1985). Once sites have been designated on the CERCLIS List, U.S. EPA uses its Hazard Ranking System (HRS) to determine potential risks to human health and the environment. Only those CERCLIS sites that present the greatest risk are added to the NPL, which qualifies the sites

to receive CERCLA remedial funding.

CERCLIS

Since 1982, the EPA has developed and maintained lists of contaminated properties under the federal Superfund program pursuant to CERCLA, 42 U.S.C. Section 9601 (1985). U.S. EPA discovers these sites from citizen reports, routine inspection of hazardous waste generators, treatment, storage and disposal facilities, and reporting requirements.

Resource Conservation and Recovery Act (RCRA) - TSD SITES

The RCRA TSD database contains information pertaining to facilities that treat, store or dispose of EPA-regulated hazardous waste, including all reported facility violations.

Resource Conservation and Recovery Act (RCRA) - Large and Small Quantity Generators

The EPA's RCRA program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of reporting facilities that generate large and small quantities of hazardous waste.

CORRACTS

CORRACTS is a list of handlers with RCRA corrective action activity. This report shows nationally-defined corrective action core events that have occurred for every handler that has had corrective action activity.

Emergency Response Notification System (ERNS/SPILLS)

The EPA "National Spill Reports System" or the Emergency Response Notification System (ERNS) is a national database used to collect information on reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the U.S. Coast Guard, the National Response Center and the U.S. Department of Transportation.

Solid Waste Information System (SWlS)

The California Integrated Waste Management Board maintains this list pursuant to the Solid Waste Management and Resource Recovery Act of 1972. This list contains an inventory of active, inactive and closed solid waste disposal and transfer facilities.

Underground Storage Tank Facilities (UST)

The State of California Water Resources Control Board (WRCB) in Sacramento provides a list of all permitted USTs containing hazardous substances, including petroleum products. This database provides information on all registered USTs.

Leaking Underground Storage Tanks (LUST)

The San Francisco Regional Water Quality Control Board (SFRWQCB) and the local

enforcement agencies track leaking underground storage tank (LUST) facilities and other fuel release sites in the San Francisco Bay Area.

6.2 SUMMARY OF LOCAL REGULATORY AGENCY RECORDS REVIEW

6.2.1 SITE

The subject Site, listed as Eleanor Massie at 16325 Kent Avenue, was identified on the SWEEPS UST governmental environmental database searched by EDR, Inc. The listing was for the presence of one 550-gallon regular unleaded motor vehicle fuel UST.

6.2.2 OFF-SITE

Based on our review of the listings in the EDR database report, there is one currently open hazardous release facility that abuts the subject property. The former Holland Oil property at 16301 East 14th Street is located adjoining the Site to the north/northwest of the carport structure. The Holland Oil property was a bulk fuel storage and distribution facility from the 1960s to mid-1980s. Eight USTs, containing gasoline, diesel, kerosene, and Stoddard solvent, historically were present, removed in 1998. Soil and ground water characterization has been conducted and remediation is on-going. The facility currently is an open fuel leak case with the California Regional Water Quality Control Board (RWQCB). Based on ground water monitoring data available for the property on the State Water Resources Control Board's Geotracker database, groundwater at the Holland Oil property is flowing towards the northwest, away from the subject property. Monitoring data from the closest Holland Oil ground water monitoring well to the subject property, MW-9 located approximately 150 feet north of the carport structure, indicated no contaminants present in ground water during monitoring events in 2008 and 2009 (Ninyo & Moore 2010). Based on the available data, the former Holland Oil property is not considered to be an environmental risk to the Site.

No other vicinity facilities included in the database report are considered to be an environmental risk to the Site, due to the distance, direction, and/or type of release reported.

The RCRIS, UST and FID UST and SWIS databases were reviewed for facilities which have operating permits to generate, handle, store or dispose of hazardous material or waste. Eight sites were identified on the referenced lists. Of these, five represented permits for USTs and three were for generation of small quantities of hazardous waste. Inclusion of a facility on the referenced lists is not necessarily an indication of an environmental problem. Additionally, the California Health and Safety Code requires all businesses which generate, handle, store, or dispose of certain quantities of hazardous material or waste to prepare and submit hazardous material management plans, which are generally administered by the local fire departments or County environmental health departments. Due to their regulated nature, the RCRIS, SWIS, UST and FID UST facilities are not currently considered to be an environmental risk to the Site.

The EDR report identified seven locations on the Orphan Summary, which are facilities considered "unplottable" due to insufficient address information. EDR was able to confirm the location of many of these sites, to assess whether they were located within the designated search radii. Four of the seven orphan facilities were identified on databases where hazardous releases are recorded, but where no further remedial action was planned (CERC-NFRAP); the remainder

were listed for wastewater discharge permits (NPDES database). Based on the street names and intersection information provided by EDR in the Orphan Summary, none of the other release sites represent environmental concerns for the Site due to their separation distances and/or reason for database listing.

6.3 ALAMEDA COUNTY FIRE DEPARTMENT

According to a representative of the Alameda County Fire Department, when called by RGA on April 19, 2011, their agency does not maintain hazardous materials or leaking UST files.

6.4 ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

The ACDEH, which administers hazardous material business plans and leaking UST cases for Alameda County, including San Lorenzo, was contacted regarding the subject property. Files for the initially reported addresses of 16309, 16325, and 16331 Kent Avenue were requested on April 18, 2011. Ms. Tanya Adamovitch responded to RGA's on-line information request and stated that the agency had no files for the Site addresses. An additional request for the 16305 and 16333 Kent Avenue addresses was placed with the ACDEH on May 5, 2011. A response regarding the on-line request for these addresses had not been received at the time this report was issued. No information on any of the Site addresses was available on the ACDEH's local oversight program (LOP) on-line database.

6.5 ALAMEDA COUNTY BUILDING DEPARTMENT

The Alameda County Building Department (ACBD) was contacted regarding the initially reported addresses for the subject property (16309, 16325, and 16331 Kent Avenue). Files for those Site addresses were reviewed at the ACBD office on April 29, 2011. A summary of the information obtained is presented below. Copies of pertinent documents are included in Appendix 7 ??. Files for the remaining Site addresses of 16305 and 16333 Kent Avenue were not available at the time this report was issued.

Documents for the 16309 Kent Avenue property were dated from 1948 through 1982. The property owner during that time period was documented as Bernard Madrid. The carport structure reportedly was constructed between 1948 and 1952. The Ashland DeLux Trailer Park was documented on the property as early as 1954 and remained the same through at least 1970. A dwelling reportedly was constructed at the property in 1958. The property reportedly was connected to the municipal sewer system, potable water system (EBMUD), and PG&E for gas and electricity.

Documents for the 16325 Kent Avenue property were dated 1959 through 1965. The property owner during that time period was documented as Mr. and Mrs. William Massie/William Massie. A 1959 permit was issued to construct a detached carport and a 1965 permit was issued for additions to an existing residence.

Documents for the 16331 Kent Avenue property were dated 1953 through 1985. The property owner during that time period was documented as Bernard and Lucy Madrid. A 1953 permit was issued for demolition of a tank house. Other available permits were related to a mobile home park.

6.6 DEPARTMENT OF WATER RESOURCES GEOTRACKER DATABASE

Review of the Geotracker database on-line on April 18, 2011 did not reveal listings for the Site. Information on the adjoining former Holland Oil property was obtained, and is summarized in Section 6.2.2.

6.7 DEPARTMENT OF TOXIC SUBSTANCES CONTROL ENVIROSTOR DATABASE

Review of the DTSC Envirostor database on April 18, 2011 did not reveal listings for the Site or any facilities within the immediate vicinity.

6.8 DATA GAPS

RGA's review of available government records for the Site and vicinity did not encounter data gaps that diminished the ability to provide an opinion on a release or potential release of hazardous substances at the subject property.

7 RESULTS OF SITE HISTORY/LAND USE REVIEW

7.1 FIRE INSURANCE MAPS

The Sanborn Map Company of New York generated fire insurance maps for urbanized areas from the late 1800s to the mid 1900s, to document possible fire hazards related to the type of building structures and general usage. No Sanborn maps are available for the vicinity of the Site because the area was not urbanized before 1950.

7.2 HISTORICAL AERIAL PHOTOGRAPHS

Aerial photographs of the subject property and surrounding area, dated 1939, 1946, 1958, 1965, 1974, 1982, 1993, 1998, and 2005, were provided by EDR and an aerial photograph dated 2010 by Google Earth was reviewed to identify areas of possible environmental concern. Only those photos depicting a significant change to the subject or surrounding properties are discussed below. Copies of the photographs are included in Appendix 8.

The 1939 photograph showed the Site to be cultivated as part of a larger agricultural field in the vicinity of the current carport, western portion of the mobile home park, and 16325 Kent Avenue residence and overgrown area to the south. The 16305 and 16331 Kent Avenue properties were cultivated with orchards. The current barn appeared present, with three or four additional structures also present, appearing to be a residence adjacent to Kent Avenue and additional outbuildings. One of the smaller structures located adjacent west of the barn was in the general location of the current off-Site 16327 Kent Avenue property.

Areas previously cultivated with fields appeared planted with orchards on the 1946 photograph. One additional structure was present along the western site boundary, north of the current location of the 16325 Kent Avenue residence. The remainder of the Site remained similarly developed.

On the 1958 and 1965 photographs, the Site appeared developed similarly to the current

development, with the exception of the 16305 Kent Avenue residence appearing not yet to have been constructed. Two small structures appeared present in the general location of the 16305 Kent Avenue building. One additional building from the prior development appeared to remain near the middle of the Site on the 1958 photograph, in the general location of the current cistern. The building no longer was visible on the 1965 photograph, but a very small structure was visible in a similar location.

Photographs from 1974 and 1982 were of poor resolution and details of Site development were difficult to discern. The Site remained similar on the 1993 through 2010 photographs, with the 16305 Kent Avenue residence first definitively observed on the 2005 photograph.

The area immediately surrounding the Site was similarly cultivated in 1939 and 1948, with commercial, residential, and agricultural structures present as well. Vicinity streets, including Kent Avenue and East 14th Street, were present. By 1958, commercial development appeared present along East 14th Street, with residential development present south and further east. Edendale Middle School was present northwest of the Site, with the remainder of the current ball fields and Edendale Park property appearing undeveloped until the mid-1960s. The 1965 photograph showed what likely was the Holland Oil facility present on the property adjoining the Site to the north. The fueling portion of the facility appeared to be located on the northern and western portions of the property, with trees and possibly residential structures on the portion of the property adjoining the Site. Vicinity development remained generally similar to the present time, with the Holland Oil facility an undeveloped lot by 2010.

With the exception of the agricultural chemicals associated with cultivation of the Site, there is no indication from the historical aerial photograph review that hazardous substances were stored at the property, or that hazardous wastes were generated or disposed of, in the visible areas outside of the subject buildings.

7.3 HISTORICAL TOPOGRAPHIC MAPS

Historical topographic maps covering the subject property and vicinity, dated 1899, 1947, 1948, 1959, 1968, 1973, and 1980, were provided by EDR and were reviewed to identify potential industrial or manufacturing facilities, landfills or other disposal areas and sensitive environmental receptors. Copies of the topographic maps are included in Appendix 9.

The 1899 topographic map depicted the Site and vicinity as generally undeveloped, with East 14th Street present. By 1947, the Site was depicted as agricultural, with two small structures appearing present along Kent Avenue. A single structure in the vicinity of the current barn was depicted on the 1948 map. By 1959, the Site was depicted within a developed area of Ashland, with no specific structures mapped. Similar depiction was shown through 1980.

The Site vicinity also was depicted as a developed are on topographic maps from 1959 through 1980. Edendale School and another school southeast of the Site were present beginning on the 1959 map.

None of the current or historical mapped structures were identified as industrial or manufacturing facilities, and no landfills or other disposal areas were depicted. Sensitive environmental receptors were not depicted in the immediate Site vicinity on the most current topographic map.

7.4 CITY DIRECTORY ABSTRACT

A City Directory abstract was prepared by EDR and provided to RGA for this assessment. The abstract was developed from RL Polk, Haines Company, and Pacific Telephone directories and covered the period from 1920 to 2006. The Clark S. Frank Reweaving Studio was reported at 16309 Kent Avenue in 1960; the 16305 Kent Avenue property occupant was listed as B&K Radio and TV Service in 1976. All other listed Site occupants appear to be individuals. A copy of the abstract is included in Appendix 10.

7.5 INTERVIEWS WITH HISTORICAL OWNERS

Interviews with historical Site owners were unable to be conducted due to a lack of current contact information.

7.6 DATA GAPS

RGA's evaluation of current and historical land use for the Site and vicinity did not encounter data gaps that diminished the ability to provide an opinion on a release or potential release of hazardous substances at the subject property.

8 CONCLUSIONS

RGA has prepared this report in accordance with 40 CFR Part 312, current industry standards, and applicable law. RGA represents that all work performed for this assessment was completed under the supervision of a qualified environmental professional, as established in 40 CFR Part 312. RGA concludes that it is reasonable for RCD to construe that, except as expressly set forth below, there are no significant environmental impacts or concerns at the Site as stipulated 40 CFR Part 312 and industry accepted standards the time of the survey.

Visual inspection of the subject property did not reveal the presence of stressed vegetation, unusual or noxious odors, or monitoring wells. At the time of the survey, there were no known pending environmental regulatory actions concerning the subject property. No indications of significant spills or releases of hazardous materials were documented in available regulatory agency files. With the exception of several containers of paint and the materials discussed below, hazardous materials and/or wastes were not observed during the Site reconnaissance. Documented prior usage of hazardous materials by Site tenants was not found in the sources available for this study.

One 350-gallon unleaded gasoline UST was removed from the vicinity of the barn in 1993. Petroleum hydrocarbons, VOCs, and lead were not detected in verification samples collected, with the exception of very low concentrations of ethylbenzene, toluene, and xylenes. The ACDEH issued a closure letter for the UST in May 1993, stating there was no contaminant problem associated with the former UST at the time of removal. The letter stated that the case could be reopened if evidence of a release was suspected at a future time. No further work with regards to the historic UST is required at this time.

Due to the age of construction and historically rural location of the on-Site residences (primarily the 16325 and 16331 Kent Avenue structures), heating oil USTs may be present. Heating oil is relatively immobile in the subsurface so if a tank was present, the likelihood of a significant release would be small. However, if a UST is encountered during Site development activities, it must be appropriately removed in accordance with applicable ACDEH requirements, and verification soil sampling and possibly limited excavation and removal of impacted soil could be required.

At least one old, rusted 55-gallon drum appearing to contain/have contained oil and several rusted 1-gallon cans of thinner were observed in the overgrown yard area behind the 16325 Kent Avenue residence. In addition, a second 55-gallon drum leaking a thick tar- or oil-like substance and multiple containers of oily material were observed within the carport at the northwestern corner of the Site. We recommend that these materials, as well as the abandoned vehicle in the overgrown yard area, be appropriately disposed prior to the property transaction as they currently are inappropriately stored and spills/releases from the containers have impacted underlying soil. In addition, we recommend that the overgrown yard area behind the 16325 Kent Avenue residence be cleared of brush and inspected, to ascertain whether additional hazardous materials containers that require disposal may be present, and whether such containers may have leaked and impacted underlying soil.

Visually-impacted soil present at several areas within the carport structure should be excavated and removed from the Site for appropriate disposal. Consideration should be given to collection of verification soil samples from the bottoms of the excavations, to confirm the impacted materials has been adequately removed. Based on the assumption that the stained soil is a result of the release of oily material observed, as well as releases from parked vehicles, a significant volume of impacted soil is not anticipated. If any additional areas of visually-impacted soil are encountered during future demolition and/or construction activities, similar excavation and disposal should be conducted.

Development of the site with what appeared to be the existing barn, as well as a dwelling, tank house, and additional structures, was documented from at least the late 1930s through the mid-1950s. Many areas with historic structures are found to have residual metals and/or pesticides/herbicides present in soil around the location of the perimeter of the historic structures, attributable to the application of pesticides/herbicides and the flaking of lead-based paint. Since residential development of the Site is planned, consideration should be given to evaluating soil quality in the locations of historic structures. If pesticides and/or metals are found to be present at significant concentrations, appropriate handling and possibly removal or remediation could be required.

In addition to the possible presence of residual metals and/or pesticides present in soil, other sub-grade structures including USTs, pipelines, septic tanks, fill materials, buried debris, building materials, and impacted soil also may be present from previous site development in those areas. If objects such as these are encountered during future development of the site, special measures for their removal may be required, possibly including soil characterization and/or remediation.

Agricultural cultivation of the Site with field crops and orchards was documented from at least the late-1930s through the late-1940s/early-1950s. Widespread use of the pesticide DDT, a persistent compound in soil, generally occurred during this time period. Standard agricultural practices also may have included application of other agricultural chemicals, possibly including lead arsenate. In addition to field/tree application, pesticides may have been stored in the current barn or other historic on-Site structures and also may have been mixed in the vicinity of reported historic on-Site well. Since residential development of the Site is planned, consideration should be given to evaluating soil quality in the historically agricultural areas, as well as around the well if located and in the vicinity of the historic structures and barn. If pesticides and/or metals are found to be present at significant concentrations, appropriate handling and possibly removal or remediation could be required.

The historic presence of a tank house on the Site indicates that a domestic water supply well likely was present. A well at the 16331 Kent Avenue property was reported in the disclosure documentation provided by the historic property owner. No documentation of the appropriate abandonment of a well was available in the documents reviewed for this study. Evidence of the presence of a well was not observed on site at the time of the reconnaissance. If during future construction activities at the Site a well is encountered, it must be appropriately abandoned in accordance with applicable regulatory agency requirements.

A cistern reportedly is present near the center the Site, for which the former access cover remains visible but access was not available. The cistern reportedly was filled with soil prior to purchase of the property by the current Site owner. During Site demolition activities, removal of the cistern should be conducted and the structure should be evaluated to confirm its use as a cistern. If a use other than water storage is suspected, further evaluation should be conducted.

In the disclosure report prepared by the previous Site owner, the 16331 Kent Avenue property was reported in the proximity of a former or current waste disposal site, and the 16325 and 16331 Kent Avenue properties were indicated as having pipelines carrying oil, gas, or chemicals beneath or adjacent. Further information on these issues was not available at the time this report was issued. We recommend follow-up be conducted with the current property owner, in an attempt to obtain additional information on these reported issues.

Of the environmental databases that were searched, one adjoining, hydraulically down-gradient facility was identified by RGA as having a release of petroleum hydrocarbons to ground water. The off-site former Holland Oil facility currently is an open fuel leak case. Based on ground water monitoring data available for the property, groundwater at the Holland Oil property is flowing away from the subject property. In addition, monitoring data from the closest Holland Oil property ground water monitoring well to the subject property indicated no contaminants present in ground water during monitoring events in 2008 and 2009. Based on the available data, the former Holland Oil property is not considered to be an environmental risk to the Site.

9 SIGNATURES

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR 312.10. We have the specific qualifications

based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR part 312 and current industry practices.

Signed :

Belinda P. Blackie, PE, REA

Marlin Bryant, ???

10 LIMITATIONS

The findings of this ESA, as represented within this report, are subject to certain limiting conditions. The findings are based upon observations of Site conditions as of the date the assessment was performed and a review of reasonably ascertainable standard records sources. The findings and conclusions presented herein should not be assumed to apply to conditions or operating practices on this property occurring subsequent to RGA's actual on-site investigation.

The scope of work commissioned for this project does not represent an exhaustive study, but rather a reasonable inquiry, consistent with good commercial practice, in general accordance with 40 CFR Part 312. In the course of this assessment, RGA has relied on information provided by outside parties, such as regulatory agencies and interview sources. RGA has made no independent investigation as to the validity, completeness or accuracy of such information provided by third-party sources. For the purposes of this assessment, such third-party information is assumed to be accurate unless contradictory evidence is noted, and RGA does not express or imply any warranty regarding information provided by third-party sources. This ESA report makes no representation that environmental contamination does not exist at this Site, beyond that described in this report.

This report does not provide the level of detail to be utilized for soil or ground water remediation. The conclusions presented in this report are professional opinions based on the data described in this report. They are intended only for the Site, and apply to conditions existing at the time of our study. Changes in applicable standards also can occur as the result of legislation or from broadening knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

This ESA is based on the information collected by RGA during this investigation. This report is prepared for the sole use and benefit of RCD and it is reasonable for RCD to rely upon the extent, character and conclusions of this report. Additionally, other borrowers or joint venture partners associated with RCD shall also be entitled to rely upon this report on the condition that they agree that RGA's liability to them shall be limited to the greater of $50,000 or the cost of the report. The scope of work was conducted as outlined in our proposal dated ???, 2011 and in general accordance with 40 CFR 312. The services conducted by RGA have been rendered in a manner consistent with the level of skill and care ordinarily exercised by members of the profession currently practicing under similar conditions.

11 DATA GAPS

This ESA was conducted in general accordance with the 40 CFR Part 312 'All Appropriate Inquiries' Rule. No deviations or exceptions to the specified scope of work existed. No data gaps or data failures, as defined in 40 CFR Part 312, were identified, other than those discussed in the appropriate sections of the report.

12 REFERENCES

The following sources were consulted in developing the information presented in this Site assessment.

- Alameda County Building Department, desk clerk, 510.670.5440
- Alameda County Department of Environmental Health, Ms. LaTresca Porter, 510.567.6809 and LOP website: http://ehgis.acgov.org/dehpublic/dehpublic.jsp.
- Alameda County Fire Department, duty officer, 510.618.3490
- California Geological Survey. *Note 36: California Geomorphic Provinces*. 2002.
- Department of Toxic Substances Control, Envirostor Program, Listing of Cleanup Sites and Hazardous Waste Permit Facilities, retrieved April 18, 2011. http://www.envirostor.dtsc.ca.gov/public/
- Department of Toxic Substances Control, Envirostor Program, Listing of Sites with Environmental Deed Restrictions, retrieved April 18, 2011. http://www.envirostor.dtsc.ca.gov/public/deed_restrictions.asp
- Department of Water Resources, Geotracker Program, retrieved April 18, 2011. http://www.geotracker.swrcb.ca.gov/
- Environmental Data Resources, Inc. (EDR), Milford, CT. Requested April 18, 2011.
    - Radius Map Report (recorded on- and off-site environmental concerns)
    - Historical Aerials Decade Package
    - Sanborn Map Report
    - City Directory Abstract
    - Historical Topographic Maps
- Google Earth aerial photographs, 2010.
- JCP-LGS Disclosures.Com. *JCP-LGS Commercial Property Disclosure Reports for Alameda County, 16309 Kent Avenue, San Lorenzo, Alameda County, CA.* April 20, 2011.
- Nino & Moore. *3rd Quarter 2009 Final Groundwater Monitoring Report, Former Holland Oil Property, 16301 East 14th Street, San Leandro, California*. January 6, 2010.
- North American Title Company. *Application for Policy of Title Insurance.* March 22, 2011.

- Semco. *Tank Removal Activity Report, Job Location: Eleanor Massie, 16325 Kent Avenue, San Lorenzo, California 94580*. May 13, 1993.
- U.S. Fish and Wildlife Service, National Wetlands Inventory, retrieved May 9, 2011. http://www.fws.gov/wetlands/Data/Mapper.html
- William and Eleanor Massie. *Supplement to the Real Estate Transfer Disclosure Statement, 16331 Kent Avenue and 16325 Kent Avenue, San Lorenzo.* May 24, 2000.

Table of Contents

1. INTRODUCTION 1
2. GENERAL SITE CHARACTERISTICS 7
3. ENVIRONMENTAL SETTING 9
4. RESULTS OF THE SITE INVESTIGATION 9
5. ADJACENT SITE AND VICINITY OBSERVATIONS 16
6. RESULTS OF REGULATORY AGENCY DATABASE REVIEW AND LOCAL AGENCY FILE RESEARCH 1
7. RESULTS OF SITE HISTORY/LAND USE REVIEW 20
8. CONCLUSIONS 22
9. SIGNATURES 24
10. LIMITATIONS 26
11. DATA GAPS 26
12. REFERENCES 277

Appendices

Appendix 1- Site Location Map, Site Plan, and Site Vicinity Plan

Appendix 2 - Site Photographs

Appendix 3 – EBMUD Annual Water Quality Report

Appendix 4 – Completed Owner and User Questionnaires

Appendix 5 – Lien Search

Appendix 6 – EDR Summary Report

Appendix 7 – ACBD File Information

Appendix 8 – Aerial Photographs

Appendix 9 – Historic Topographic Map

Appendix 10 –City Directories Abstract

Appendix 11 –Property Tax Map

Appendix 12 - Resume of Environmental Professional

RGA ENVIRONMENTAL

SITE LOCATION MAP

Ashland Housing Project

16305, 16309, 16325, 16331, 16333 Kent Avenue

San Lorenzo, CA 94580

PREPARED FOR: RCD

PROJ. MGR.: Marlin Bryant DATE: 5/11/11

DRAWN BY: Belinda Blackie PROJ. #: RCD27554

RGA ENVIRONMENTAL

SITE PLAN

Ashland Housing Project
16305, 16309, 16325, 16331,
16333 Kent Avenue
San Lorenzo, CA 94580

PREPARED FOR: RCD
PROJ. MGR.: Marlin Bryant

DATE: 5/11/11

	DRAWN BY: Belinda Blackie PROJ. #: RCD27554

RGA ENVIRONMENTAL

SITE VICINITY PLAN

Ashland Housing Project
16305, 16309, 16325, 16331, 16333 Kent Avenue
San Lorenzo, CA 94580

PREPARED FOR: RCD
PROJ. MGR.: Marlin Bryant DATE: 5/11/11
DRAWN BY: Belinda Blackie PROJ. #: RCD27554

Photo 1: Northern Façade of Barn

Photo 2: Northeastern Façade of 16325 Kent Avenue Residence

Photo 3: Eastern Façade of 16331 Kent Avenue Residence

Photo 4: Northern Façade of 16333A and 16333 Kent Avenue Residences

Photo 5: Northeastern Façade of 16305 Kent Avenue Residence

Photo 6: Mobile Home Park with Stand-Alone Restroom Structure

Photo 7: Cistern Access Cover

Photo 8: Interior of Barn Garage

Photo 9: Oil Stain in Front of Garage

Photo 10: Sheds with Paint Can in Middle

Photo 11: Carport

Photo12: Leaking Drum in Carport

Photo 13: Oil Containers and Spills in Carport

Photo14: Leaking Drum in Carport

Photo 15: Vehicle-Related Oil Stain in Carport

Photo16: Thinner Cans in Overgrown Yard Area behind 16325 Kent Avenue Residence

Photo 17: Oil Drum in Overgrown Yard Area behind 16325 Kent Avenue Residence

Photo18: Abandoned Car in Overgrown Yard Area behind 16325 Kent Avenue Residence

East Bay Municipal Utility District

2009 Annual Water Quality Report

This report tells you more about the water you use every day – how it gets treated, where it comes from and what is in it.

In 2009, EBMUD water met or surpassed every public health requirement set by the California Department of Public Health and the U.S. Environmental Protection Agency.

One of the most important factors in water quality is its source: the purer the source, the better the water. Ninety percent of EBMUD's water comes from the 577-square-mile watershed of the Mokelumne River, which collects Sierra Nevada snowmelt and flows into Pardee Reservoir in the Sierra foothills near the town of Valley Springs. The watershed on the west slope of the Sierra Nevada is mostly undeveloped land, little affected by human activity.

The water travels to the East Bay in pipelines and is protected from pesticides, agricultural and urban runoff, municipal sewage and industrial discharges. Local East Bay watershed rainfall and runoff accounts for about 10 percent of the District's water supply.

Before the water comes to your tap, EBMUD takes many steps to ensure its quality. This includes carefully managing and protecting watershed lands and reservoirs, treating the water, operating the complex distribution system (pipes, pumping plants and reservoirs), sampling and analyzing for water quality, maintaining and replacing facilities, and investigating and correcting consumer concerns.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the California Department of Public Health (CDPH) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The CDPH regulations also establish limits for contaminants in bottled water.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at (800) 426-4791 or visiting *www.epa.gov/safewater.*

EBMUD

EBMUD 2009 ANNUAL WATER QUALITY REPORT

EBMUD tests your water daily to make sure it is safe to drink. We look for more than 100 substances in the water, including bacteria, pesticides and herbicides, asbestos, lead, copper, petroleum products and by-products of industrial and water-treatment processes.

This table shows the measured level of substances detected at EBMUD source waters, water treatment plants or in the distribution system (map on reverse side shows which treatment plant normally serves your neighborhood).

Regulations for *Primary Drinking Water Constituents* are designed to protect public health. Regulations for *Constituents Which Have Secondary MCLs* relate to the aesthetic qualities of your water such as taste and odor. *Unregulated Constituents* are chemical or microbial constituents that water agencies are required to monitor, but no maximum contaminant levels (MCL) have been established. *In 2009 EBMUD met or surpassed all water quality regulations set by the California Department of Public Health (CDPH) and the United States Environmental Protection Agency (USEPA).*

Table below lists all drinking water constituents detected at the source, the treatment plant or the distribution system in 2009.

Primary Constituents	MCL or [MRDL]	PHG (MCLG) or [MRDLG]	Average	Walnut Creek	Lafayette	Orinda	Sobrante	USL	Met Regulation	Typical Sources
Microbiological Constituents										
Total Coliforms in Distribution System (percent positive detected, highest month)	5%	(zero)	1.7%*	NR	NR	NR	NR	NR	YES	Naturally present in the environment
Turbidity (NTU), maximum level, except for Average	1 NTU	NS	0.03	0.10	0.16	0.10	0.09	0.11	YES	Soil runoff
Turbidity (NTU)	95% of the samples ≤ 0.3 NTU	NS	NR	100%	100%	100%	100%	100%	YES	Soil runoff
Cryptosporidium in Source Water, (#/L) (sampled in 2008, most recent required monitoring)	TT	zero	NA	zero	zero	zero	0.3	zero	YES	Naturally present in the environment
Radioactive Constituents - sampled in 2006-2007, most recent required monitoring										
Gross Alpha particle activity (pCi/L)	15	(zero)	<3	<3	<3	<3	<3-11	<3	YES	Erosion of natural deposits
Gross Beta particle activity (pCi/L)	20	(zero)	<4	<4	<4	<4	<4-9.1	<4	YES	Decay of natural and man-made deposits
Uranium (pCi/L)	20	0.43	NR	<1	<1	<1	<1	<1	YES	Erosion of natural deposits
Uranium was detected at 1.1 pCi/L and Gross Alpha was detected at 4.6 pCi/L in Chabot Reservoir, an emergency standby reservoir, which has not been used for water supply in more than 20 years.										
Inorganic Constituents										
Aluminum (µg/L)	1000	600	<50	<50	<50	<50	<50-100	<50-130	YES	Erosion of natural deposits; residue from some surface water treatment processes
Chloramine Residual as Cl_2 (mg/L), maximum level, except for Average	[4]	[4]	1.9***	2.6	2.3	3.3	3.3	3.2	YES	Drinking water disinfectant added for treatment
Fluoride (naturally occurring) (mg/L)**	2	1	<0.1	<0.1	<0.1	<0.1	<0.1	0.14	YES	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Organic Constituents										
Acrylamide in treatment chemical (one hundredth of one percent)	TT = 5 @ Max. Dose allowed	(zero)	NR	Met reqmt	NR	NR	NR	NR	YES	Added to water during water treatment
Control of DBP precursors (TOC)	TT	NS	NR	NR	NR	NR	Met reqmt	Met reqmt	YES	Various natural and man-made sources
Haloacetic acids, 5 species (µg/L)	60	NS	18***	15-21	15-23	12-30	6-25	6-23	YES	By-product of drinking water disinfection
Trihalomethanes (µg/L)	80	NS	32***	29-44	31-42	28-44	25-29	14-38	YES	By-product of drinking water disinfection
Constituents Which Have Secondary MCLs										
Aluminum (µg/L)	200	NS	<50	<50	<50	<50	<50-100	<50-130	YES	Erosion of natural deposits; residue from some surface water treatment processes
Chloride (mg/L)	500	NS	7.5	4	5	5-6	13	13	YES	Runoff/leaching from natural deposits; seawater influence
Color, color units	15	NS	0.7	1	1	<1	1	1	YES	Naturally-occurring organic materials
Foaming Agents (MBAS) (µg/L)	500	NS	<50	<50	<50	83	<50	<50	YES	Municipal and industrial waste discharges
Odor–Threshold Odor Number (T.O.N.)	3	NS	1.2	1	1.3	1-1.6	1.1	1.1	YES	Naturally-occurring organic materials
Specific Conductance (umhos/cm)	1600	NS	140	53	55	57-112	231	331	YES	Substances that form ions when in water; seawater influence
Sulfate (mg/L)	500	NS	12	0.8	0.7	0.8-10	30	33	YES	Runoff/leaching from natural deposits, industrial wastes
Total Dissolved Solids (mg/L)	1000	NS	91	45	46	42-72	130	210	YES	Runoff/leaching from natural deposits
Turbidity (NTU), maximum level, except for Average	5	NS	0.03	0.10	0.16	0.10	0.09	0.11	YES	Soil runoff

Unregulated Constituents	NL	PHG (MCLG)	Average	Walnut Creek	Lafayette	Orinda	Sobrante	USL		
Boron (µg/L)	1000	NS	NA	<100	<100	<100	<100	<100-110	NR	Runoff/leaching from natural deposits
Chlorate (µg/L)	800	NS	NA	160	260	150-160	150-360	230-410	NR	By-product of sodium hypochlorite decomposition
N-Nitrosodimethylamine (NDMA), (ng/L)****	10	3	NA	1.5-2.3	1.1-3.1	1.8-6.1	<2-3.3	<2-3.2	NR	By-product of drinking water chlorination

Lead and Copper (sampled in 2008, most recent required monitoring)	AL	PHG	90th Percentile Level Found	# of Sites found above the AL					
Copper (µg/L)	1300	300	65	No sites out of 53 sites				YES	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (µg/L)*****	15	0.2	4	2 sites out of 53 sites				YES	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

*Highest month

** Fluoride reported above reflects levels in source waters. Fluoride was added in the range of 0.3 to 1.2 mg/L, to help prevent dental decay in consumers. Information about fluoridation, oral health, and current issues is available from www.cdph.ca.gov/certlic/drinkingwater/pages/fluoridation.aspx.

***Highest Running Annual Average.

****Sampling locations chosen to represent worst-case scenarios.

***** If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. EBMUD is responsible for providing high-quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline, (800) 426-4791, or www.epa.gov/safewater/lead.

TERMS USED

AL = regulatory action level. The concentration which, if exceeded, triggers treatment or other requirements that a water system must follow.

Cl2 = chlorine, measured disinfectant residual equivalent.

DBP = disinfection by-products. Trihalomethanes (THMs), haloacetic acids (HAAs) and bromate are disinfection by-products, formed when chlorine and/or ozone reacts with natural constituents in water.

MCL = maximum contaminant level. The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible.

MCLG = maximum contaminant level goal. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency. Chloramine has a maximum residual disinfectant level goal instead of an MCLG.

mg/L = milligrams per liter, or parts per million (ppm).

MRDL = maximum residual disinfectant level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG = maximum residual disinfectant level goal. The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA = not applicable.

ng/L = nanograms per liter, or parts per trillion (ppt).

NL = notification level. Notification levels are health-based advisory levels established by CDPH for chemicals in drinking water that lack MCLs.

NR = not required for meeting regulations.

NS = no standard (MCL or PHG for example) established.

NTU = nephelometric turbidity units.

NV = no value.

pCi/L = pico curies per liter, a measure of radioactivity.

PDWS = primary drinking water standard. MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

PHG = public health goal. The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Secondary drinking water standard. MCLs set to protect the odor, taste and appearance of drinking water.

TOC = total organic carbon. A measurement of organic compounds which could form by-products after disinfection. See DBP.

T.O.N. = threshold odor number, a measurement of odors in water.

TT = treatment technique. A required process intended to reduce the level of a contaminant in drinking water.

Trihalomethanes = A group of contaminants in drinking water formed as a by-product of disinfection. See DBP.

Turbidity = A measure of cloudiness of the water. See NTU.

µg/L = micrograms per liter, or parts per billion (ppb).

umhos/cm = micromhos per centimeter, a measure of electrical conductance.

USL = Upper San Leandro.

90th percentile = 90 percent of samples had lower values.

Contaminants in Drinking Water

The sources of drinking water—both tap water and bottled water—include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

Microbial contaminants, such as viruses, bacteria and protozoa, such as Cryptosporidium, that may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.

Inorganic contaminants, such as salts and metals that can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Synthetic organic contaminants such as pesticides and herbicides that may come from a variety of sources, including agriculture, urban storm water and residential uses.

Volatile organic contaminants from industrial processes and petroleum production, and from gas stations, urban storm water runoff, agricultural application and septic systems.

Radioactive contaminants that can be naturally occurring or be the result of oil and gas production, and mining activities.

Cryptosporidium is a microbial contaminant found in surface water throughout the United States. Although filtration is highly effective in removing Cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in one of our source waters. Current test methods cannot determine if the organisms are dead or are capable of causing disease. Ingestion of

Cryptosporidium may cause abdominal infection with symptoms including nausea, diarrhea and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their physician regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

Low Resistance—Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, and some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the USEPA Safe Drinking Water Hotline: (800) 426-4791 or *www.epa.gov/safewater.*

Lead—Routine testing shows that EBMUD is in compliance with state and federal lead regulations. However, household and utility plumbing can still contain lead (for additional information see footnote beneath table at left).

To further reduce consumer exposure to lead, California enacted a new "lead-free" plumbing law. Beginning on January 1, 2010, the lead content of plumbing products sold in California is limited to 0.25% or less, a significant reduction from the 4% lead content which was previously allowed.

EBMUD 2009 ANNUAL WATER QUALITY REPORT

City	Treatment Plants
Alameda	Orinda/Upper San Leandro
Alamo	Walnut Creek
Albany	Orinda
Berkeley	Orinda
Castro Valley	Upper San Leandro/Orinda
Crockett	Sobrante/Orinda
Danville	Walnut Creek
El Cerrito	Orinda
El Sobrante	Sobrante/Orinda
Emeryville	Orinda
Hayward	Upper San Leandro/Orinda
Hercules	Sobrante/Orinda
Kensington	Orinda
Lafayette	Lafayette/Walnut Creek
Moraga	Lafayette/Orinda
Oakland	Orinda/Upper San Leandro
Orinda	Orinda/Lafayette
Piedmont	Orinda/Upper San Leandro
Pinole	Sobrante/Orinda
Pleasant Hill	Walnut Creek
Richmond	Sobrante/Orinda
Rodeo	Sobrante/Orinda
San Leandro	Upper San Leandro/Orinda
San Lorenzo	Upper San Leandro/Orinda
San Pablo	Sobrante/Orinda
San Ramon	Walnut Creek
Walnut Creek	Walnut Creek/Lafayette

The following table includes measurements of other water quality constituents that might be of interest to our consumers:

OTHER WATER QUALITY PARAMETERS	Walnut Creek	Lafayette	Orinda	Sobrante	USL
Alkalinity, bicarbonate (mg/L as CaCO3)	18.4	17.5	17.3-31.3	73.5	107
Alkalinity, carbonate (mg/L as CaCO3)	0.4	0.4	1.3-2.3	1.4	2.5
Calcium (mg/L)	3.9-4.8	3.8-4.8	3.9-8.9	16-19	23-31
Hardness (mg/L as CaCO3)	12-20	11-16	13-31	47-73	100-120
Magnesium (mg/L)	0.6-1.0	0.6-0.9	0.7-2.0	4.8-6.1	10-12
pH (pH units)	8.4-9.3	8.4-9.3	7.9-9.6	8.5-9.0	8.1-9.1
Potassium (mg/L)	0.4-0.6	0.5-0.7	0.5-0.8	1.1-2.0	1.4-2.0
Silica (mg/L)	8.3-11.3	8.4-10.8	8.3-11.5	6.8-11.5	1.4-5.2
Sodium (mg/L)	4.8-5.7	4.9-7.1	5.3-9.4	18-22	24-28

The table above provides useful information for certain industrial and home applications. Information on water hardness in "grains per gallon" can help improve the function of dishwashers, cooling equipment and other process applications. To convert the hardness values into grains per gallon, divide the values shown in the tables in milligrams per liter by 17. For example, water hardness in areas served by the Orinda Water Treatment Plant had a range from 13 to 31 mg/L, or 0.8 to 1.8 grains per gallon.

ADDITIONAL WATER SOURCE FOR 2009

EBMUD has emergency connections with other local agencies to provide back-up water supplies. In 2009, EBMUD received 870 million gallons of treated water (about one percent of EBMUD's water supply) from the San Francisco Public Utilities Commission (SFPUC) system through a connection in Hayward in advance of SFPUC's planned need for back-up supply in 2010. Water quality and source information for the SFPUC is available at *www.sfwater.org* or (415) 554-3289.

AWARD WINNING WATER TREATMENT PLANTS

The Orinda Water Treatment Plant is one of only six plants in the country that has received an Excellence in Water Treatment Award in the nationwide Partnership for Safe Water (PSF). In 1996, EBMUD joined with the American Water Works Association, the USEPA and over 230 other water utilities nationwide in PSF. Through the Partnership, EBMUD works to optimize water treatment plant operations to maximize drinking water quality. EBMUD's other active water treatment plants are recognized with the Partnership Directors Award for meeting higher voluntary water quality standards.

Public Participation

EBMUD encourages public participation in decisions affecting drinking-water quality and other matters at its Board meetings, which take place the second and fourth Tuesdays of each month at 1:15 p.m., 2nd floor, 375 Eleventh Street, Oakland.

To speak with someone who can provide more information about water quality or to report a water quality concern, call 1-866-40-EBMUD (1-866-403-2683).

Board of Directors
John A. Coleman
Katy Foulkes
Andy Katz
Doug Linney
Lesa R. McIntosh
Frank Mellon
William B. Patterson

General Manager
Dennis M. Diemer

Additional Contacts

California Department of Public Health
Drinking Water Branch - (510) 620-3463

U.S. Environmental Protection Agency Safe Drinking Water Hotline - (800) 426-4791

County Public Health Departments:
Alameda County - (510) 267-8000
Contra Costa County - (925) 313-6712

375 Eleventh Street
Oakland, CA 94607
1-866-40-EBMUD
www.ebmud.com

PRESORTED STANDARD
U.S. POSTAGE
PAID
CONCORD, CA
PERMIT NO. 530

PUB. 128 5.10 615M

ENGLISH
This report contains important information about your drinking water. Translate it, or speak with someone who understands it. To request a copy of this report in Spanish or Chinese, please call (510) 287-0138.

SPANISH
Este informe contiene importante información sobre el agua potable que usted consume. Tradúzcalo, hable con alguien que lo comprenda, o solicite un ejemplar de este informe en español llamando al (510) 287-0138.

CHINESE
這份報告包含有您飲用水的重要資訊。請翻譯該內容，或與了解內容的人討論，或者請致電(510) 287-0138索取中文報告。

JAPANESE
この報告書には、あなたの飲料水に関する重要な情報が含まれています。和訳するか、理解できる人に相談してください。

KOREAN
본 보고서에는 귀하의 음료수에 관한 중요한 정보가 나와 있습니다. 번역을 부탁하거나 그 내용을 이해하시는 분으로부터 설명을 들으십시오.

CAMBODIAN (KHMER)
របាយការណ៍នេះមានព័ត៌មានសំខាន់អំពីទឹកផឹក។ សូមរកគេឲ្យបកប្រែជូនឬពិគ្រោះជាមួយអ្នកណាដែលយល់របាយការណ៍នេះ ។

THAI
รายงานฉบับนี้มีข้อมูลสำคัญเกี่ยวกับน้ำดื่มของท่าน ขอให้แปลรายงานฉบับนี้หรือพูดคุยกับผู้ที่เข้าใจเนื้อหาในรายงานนี้.

LAO
ລາຍງານສະບັບນີ້ມີຂໍ້ມູນສຳຄັນກ່ຽວກັບນ້ຳດື່ມຂອງທ່ານ. ໃຫ້ທ່ານແປເອກະສານນີ້ເປັນພາສາລາວ, ຫລືໃຫ້ທ່ານເວົ້າປຶກສາກັບຜູ້ທີ່ເວົ້າໃຈເລື່ອງ.

PUNJABI
ਇਸ ਰਿਪੋਰਟ ਵਿੱਚ ਤੁਹਾਡੇ ਪੀਣ ਵਾਲੇ ਪਾਣੀ ਬਾਰੇ ਜ਼ਰੂਰੀ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਗਈ ਹੈ। ਇਸਦਾ ਅਨੁਵਾਦ ਕਰੋ ਜਾਂ ਕਿਸੇ ਨਾਲ ਗਲ ਕਰੋ ਜੋ ਇਸਨੂੰ ਸਮਝਦਾ ਹੋਵੇ।

GUJARATI
આ રિપોર્ટમાં તમારા પીવાના પાણી વિષે મહત્વની માહિતી છે. એનો અનુવાદ કરો, અથવા જેને એની સમજણ પડતી હોય તેની સાથે વાત કરો.

HINDI
इस रिपोर्ट में आपके पीने के पानी के बारे में महत्वपूर्ण जानकारी दी हुई है। इसका अनुवाद करें, या किसी ऐसे व्यक्ति से बात करें जो इसे समझता हो।

RUSSIAN
Здесь содержится информация о вашей питьевой воде. Переведите ее, или обратитесь к тому, кто это понимает.

BOSNIAN
U ovom izvještaju nalaze se važne informacije o vašoj vodi za piće. Prevedite ga ili razgovarajte sa nekim ko razumije ovaj izvještaj.

VIETNAMESE
Bản báo cáo này có các thông tin quan trọng về nước uống của quý vị. Hãy chuyển ngữ tài liệu này, hoặc nói chuyện với người có thể hiểu được bản báo cáo này.

FRENCH
Ce rapport contient des informations importantes concernant votre eau potable. Faites-le traduire ou adressez-vous à quelqu'un qui est en mesure de le comprendre.

TAGALOG
Ang ulat na ito ay naglalaman ng importanteng impormasyon tungkol sa inyong iniinom na tubig. Isalin ito, o makipag-usap sa isang taong nakakaintindi nito.

POLISH
Ten raport zawiera ważne informacje dotyczące wody pitnej. Przetłumacz go, lub porozmawiaj z kimś, kto go rozumie.

GREEK
Η έκθεση αυτή περιέχει σημαντικές πληροφορίες σχετικά με το πόσιμο νερό σας. Μεταφράστε την έκθεση ή μιλήστε με κάποιο άτομο που την κατανοεί.

HMONG
Daim ntawv qhia no muaj cov lus qhia tseem ceeb txog koj cov dej haus. Muab txhais, los sis nrog ib tug neeg uas nkag siab txog qhov no tham.

HEBREW
דו"ח זה מכיל מידע חשוב על מי שתייה. תרגמו אותו או שאלו מישהו שמבין את תוכנו.

ARABIC
يحتوي هذا التقرير على معلومات هامة حول مياه الشرب التي تتناولها. ترجم التقرير أو تحدث إلى شخص يستطيع فهمه.

FARSI
این گزارش حاوی اطلاعات مهمی درمورد آب آشامیدنی است. آن را ترجمه کنید. یا از کسی که مطالب آن را می فهمد سئوال کنید.

URDU
اس رپورٹ میں آپ کے پینے کے پانی سے متعلق اہم معلومات ہیں. اس کا ترجمہ کریں، یا کسی ایسے شخص سے بات کریں جو اسے سمجھتا ہو.

Phase I "User" Questionnaire

Ashland Housing Project
16309, 16325 and 16331 Kent Avenue, San Lorenzo, CA

In order for the "User" of this Phase I environmental site assessment to qualify for Landowner Liability Protections offered by the Small Business Liability Relief and Brownsfields Revitalization Act of 2001, the "User" must provide the following information to the Environmental Professional prior to completion of the Phase I.

In an attempt to help identify the presence of possible recognized environmental conditions associated with the property, please answer the following questions as specifically as reasonably feasible and in good faith to the extent of your knowledge. Also, please attach any relevant documents or reports, including previous environmental reports, geotechnical reports, risk assessments, hazardous materials management plans, chemical inventories, environmental/hazardous waste generator permits, underground storage tank documents, records of activity and use limitations, etc.

1) Based on your knowledge and/or experience with the site, are there any obvious indications that contamination of the property is or may be present?

☐ Yes (if yes, please provide information below) ☒ No

2) Please provide any information you have regarding current and/or past owners/tenants and uses of the site. Please also include any available contact information for past owners/tenants.

Rental Property

3) Please provide any information you have regarding chemicals or other hazardous materials currently and/or historically present on the site.

Old gas tank was removed.

4) What is the current zoning of the site? Do you have knowledge of what the site historically was zoned, if different from the current zoning?

Not Sure

5) Please provide any information you have regarding past spills or other chemical releases that have occurred on the site and any cleanup activities that have been required and/or performed.

Do no know of any spills or chemical releases

6) Do you have knowledge of any environmental cleanup liens or activity and land use limitations (including engineering or institutional controls or land use restrictions) filed or recorded for the site under federal, tribal, state, or local law? ☐ Yes (if yes, please provide information below) ☒ No

7) As the User of this Environmental Site Assessment, do you have any specialized knowledge of, or experience with, similar business, development, or facility types to this site or nearby properties that would be material to the environmental condition, presence of chemicals, and/or uses of the site and nearby properties?
☐ Yes (if yes, please provide information below) ☐ No

Use to be an Oil Company down the Street - see additional info previously sent

8) Does the purchase price being paid for this site reasonably reflect the fair market value of the property?
☒ Yes ☐ No (if no, please indicate if the difference in the purchase price and the fair market value is due to the presence of releases or threatened releases of hazardous substances.)

9) Do you have any knowledge of pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from this site?
☐ Yes (if yes, please provide information below) ☒ No

10) Have you received notice from any governmental entity regarding possible violation of environmental laws or liability relating to hazardous substances or petroleum products associated with the site?
☐ Yes (if yes, please provide information below) ☒ No

Completed by: Mike Ahern per phone conversation with Tom Eplin while he was in Oregon.

Name (Print) Signature

Date

Phase I "User" Questionnaire

Ashland Housing Project
16309, 16325 and 16331 Kent Avenue, San Lorenzo, CA

In order for the "User" of this Phase I environmental site assessment to qualify for Landowner Liability Protections offered by the Small Business Liability Relief and Brownsfields Revitalization Act of 2001, the "User" must provide the following information to the Environmental Professional prior to completion of the Phase I.

In an attempt to help identify the presence of possible recognized environmental conditions associated with the property, please answer the following questions as specifically as reasonably feasible and in good faith to the extent of your knowledge. Also, please attach any relevant documents or reports, including previous environmental reports, geotechnical reports, risk assessments, hazardous materials management plans, chemical inventories, environmental/hazardous waste generator permits, underground storage tank documents, records of activity and use limitations, etc.

1) Based on your knowledge and/or experience with the site, are there any obvious indications that contamination of the property is or may be present?

☐ Yes (if yes, please provide information below) ☒ No

However I understand from the seller that tanks were previously removed from the site.

2) Please provide any information you have regarding current and/or past owners/tenants and uses of the site. Please also include any available contact information for past owners/tenants.

The site is currently a mobile home park

3) Please provide any information you have regarding chemicals or other hazardous materials currently and/or historically present on the site.

None

RGA ENVIRONMENTAL

4) What is the current zoning of the site? Do you have knowledge of what the site historically was zoned, if different from the current zoning?

Do not know

5) Please provide any information you have regarding past spills or other chemical releases that have occurred on the site and any cleanup activities that have been required and/or performed.

Do not know. However the Ashland Youth Center parcel to the north of the site was contaminated and was recently remediated

6) Do you have knowledge of any environmental cleanup liens or activity and land use limitations (including engineering or institutional controls or land use restrictions) filed or recorded for the site under federal, tribal, state, or local law? ☐ Yes (if yes, please provide information below) ☒ No

7) As the User of this Environmental Site Assessment, do you have any specialized knowledge of, or experience with, similar business, development, or facility types to this site or nearby properties that would be material to the environmental condition, presence of chemicals, and/or uses of the site and nearby properties?
☒ Yes (if yes, please provide information below) ☐ No

The current property owner operates an auto body shop across the street from the site

8) Does the purchase price being paid for this site reasonably reflect the fair market value of the property?
☒ Yes ☐ No (if no, please indicate if the difference in the purchase price and the fair market value is due to the presence of releases or threatened releases of hazardous substances.)

The price is to be substantiated by a land appraisal

9) Do you have any knowledge of pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from this site?
☐ Yes (if yes, please provide information below) ☒ No

_____
_____
_____
_____
_____

10) Have you received notice from any governmental entity regarding possible violation of environmental laws or liability relating to hazardous substances or petroleum products associated with the site?
☐ Yes (if yes, please provide information below) ☒ No

_____
_____
_____
_____
_____

Completed by**:** _____

Name (Print) Signature Date

Ashland Housing Project
16309 Kent Avenue
San Lorenzo, CA 94580

Inquiry Number: 3045045.7
April 20, 2011

The EDR Environmental LienSearch™ Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2010 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

The EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

16309 Kent Avenue
Ashland Housing Project
San Lorenzo, CA 94580

RESEARCH SOURCE

Source 1:

Alameda county recorder
Alameda, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Deed
Title is vested in:	Thomas Eplin & Ella Eplin
Title received from:	Robert B Madrid & Carole L Madrid
Deed Dated	8/9/2000
Deed Recorded:	8/25/2000
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	see exhibit
Miscellaneous Comments:	na
Legal Description:	see exhibit
Legal Current Owner:	Thomas Eplin & Ella Eplin
Property Identifiers:	080c-0479-022, 080c-0479-023-1, 080c-0479-023-2
Comments:	see exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

North American Title Company
Order No 54605-50220594
Escrow No 54605-50220594-GMP

AND WHEN RECORDED MAIL TO.
Mail Tax Statement to:
Name Mr and Mrs Thomas M Eplin
Street Address 3649 East Avenue
City & State Hayward,, CA 94542-

20002157155 08/25/2000 08.30 AM
OFFICIAL RECORDS OF ALAMEDA COUNTY
PATRICK O'CONNELL
RECORDING FEE 19 00
COUNTY TAX 825 00
5 PGS

SPACE ABOVE THIS LINE FOR RECORDER'S USE

INDIVIDUAL GRANT DEED

A P N 080C-0479-023-01/080C-0479-022/080C-0479-023-02

The undersigned grantor (s) declare (s)
Documentary transfer tax is $ 825 00 City transfer tax is $ NONE
(X) computed on full value of property conveyed, or
( ) computed on full value less value of liens and encumbrances remaining at time of sale
( ) Unincorporated area (X) City of Unincorporated Area, and
FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Robert B Madrid and Carole L Madrid, husband and wife and William J Massie and Eleanor R Massie, husband and wife

hereby GRANT(s) to THOMAS M. EPLIN and ELLA S. EPLIN, husband and wife as Joint Tenants

the following described real property in the City of Unincorporated Area, County of Alameda, State of California

LEGAL DESCRIPTION ATTACHED HERETO AS EXHIBIT " A" AND MADE A PART HEREOF

Dated August 9, 2000

STATE OF CALIFORNIA,
COUNTY OF Alameda)SS
On August 10, 2000 before me,
Gina M Page, personally appeared
Robert B Madrid and Carole L Madrid
William J Massie and Eleanor R Massie
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

WITNESS my hand and official seal.
Signature

Robert B Madrid
Carole L Madrid
William J Massie
Eleanor R Massie

GINA M. PAGE
COMM. # 1233797
NOTARY PUBLIC CALIFORNIA
ALAMEDA COUNTY
COMM EXP SEPT. 3, 2003
(This area for official notarial seal)

MAIL TAX STATEMENTS TO SAME AS ABOVE
NAME ADDRESS CITY, STATE, ZIP

ILLEGIBLE NOTARY SEAL DECLARATION
GOVERNMENT CODE 27361.7

I CERTIFY UNDER PENALTY OF PERJURY THAT THE NOTARY SEAL ON THE DOCUMENT TO WHICH THIS STATEMENT IS ATTACHED READS AS FOLLOWS:

Name of Notary: Gina M. Page

Date Commission Expires: Sept 3, 2003

State: CA County Alameda

COMMISSION # 1233797

Place of Execution of this Declaration: Alameda County

Date: 8/17/10 Signature: Lupe Vasquez

LUPE VASQUEZ

as Agent for North American Title Company

Legal Description

Description: The land referred to herein is situated in the State of California, County of ALAMEDA, AN UNINCORPORATED AREA, and is described as follows:

PARCEL ONE:

BEGINNING AT A POINT ON THE WESTERN LIE OF KENT AVENUE, FORMERLY LAUREL AVENUE, DISTANT THEREON NORTH 0° 41' EAST 418 FEET FROM THE NORTHERN LINE OF DELANO STREET, FORMERLY MAPLE STREET, SAID POINT OF BEGINNING ALSO BEING THE NORTHEASTERN CORNER OF THE PARCEL OF LAND CONVEYED TO STANLEY T. FUKUCHI, ET. UX., DATED JANUARY 20, 1947 AND RECORDED FEBRUARY 13, 1947 IN BOOK 5088, PAGE 197, OFFICIAL RECORDS, INSTRUMENT NO. AB/12109, ALAMEDA COUNTY RECORDS, THENCE ALONG THE NORTHERN LINE OF SAID DEED (5099 O. R. 179) NORTH 89° 19' WEST 200 FEET TO THE SOUTHEAST CORNER OF THE PARCEL OF LAND DESCRIBED AS PARCEL 1 IN THE DEED TO MANUEL PRIEGO, A SINGLE MAN, DATED DECEMBER 31, 1948 AND RECORDED JANUARY 27, 1949 IN BOOK 5712, O. R., PAGE 357, INSTRUMENT NO. AD/5974, ALAMEDA COUNTY RECORDS; THENCE ALONG THE EASTERN LINE OF SAID PARCEL 1 (DEED 5712 OR 357) NORTH 0° 41' EAST 95 FEET TO THE NORTHEAST CORNER OF SAID PARCEL 1; THENCE ALONG THE NORTHERN LINE OF SAID PARCEL 1 NORTH 89° 19' WEST 50 FEET TO THE NORTHWEST CORNER BEING A POINT OF THE EASTERN LINE OF THE PARCEL OF LAND DESCRIBED AS PARCEL 1 IN THE DEED TO WILLIAM MASSIE, ET UX, DATED JANUARY 6, 1959 AND RECORDED JANUARY 29, 1959 IN BOOK 8916, O.R., PAGE 351, INSTRUMENT NO. AQ/10908, ALAMEDA COUNTY RECORDS; THENCE ALONG THE EASTERN LINE OF SAID PARCEL 1, LAST ABOVE THE MENTIONED (8916, O. R., 315) NORTH 0° 41' EAST 30 FEET TO THE NORTHEASTERN CORNER OF SAID PARCEL 1, THENCE ALONG THE NORTHERN LINE OF SAID PARCEL 1, NORTH 89° 19' WEST 50 FEET TO THE EASTERN LINE OF THE PARCEL OF LAND DESCRIBED IN THE DEED TO SAN LORENZO SCHOOL DISTRICT OF ALAMEDA COUNTY, DATED JANUARY 25, 1949 AND RECORDED FEBRUARY 11, 1949 BOOK 5726 O.R., PAGE 165, INSTRUMENT NO. AD/10328, ALAMEDA COUNTY RECORDS; THENCE ALONG SAID LAST NAMED LINE NORTH 0° 41' EAST 182.96 FEET; THENCE SOUTH 89° 19' EAST 120 FEET TO THE WESTERN LINE OF THE PARCEL OF LAND DESCRIBED IN THE DEED OF SEBASTIAN PAREDERA DATED JANUARY 22, 1923 AND RECORDED JANUARY 23, 1923 BOOK 331 O.R., PAGE 335, INSTRUMENT NO. T/4719, ALAMEDA COUNTY RECORDS; THENCE ALONG SAID WESTERLY LINE SOUTH 0° 41' WEST 50 FEET; THENCE ALONG THE SOUTHERN OF SAID PARCEL OF LAND SOUTH 89° EAST 177.05 FEET TO THE WESTERN LINE OF THE PARCEL OF LAND DESCRIBED IN THE DEED TO THE COUNTY OF ALAMEDA, DATED MAY 4, 1928 AND RECORDED JANUARY 29, 1931 IN BOOK 2524, O.R., PAGE 259, INSTRUMENT NO. BB/5849, ALAMEDA COUNTY RECORDS; THENCE ALONG SAID WESTERN LINE SOUTH 48° 51' 30" WEST 3.90 FEET TO THE WEST LINE OF SAID KENT AVENUE, ABOVE REFERRED TO; THENCE ALONG SAID WEST LINE SOUTH 0° 41' WEST 255.44 FEET MORE OR LESS TO THE POINT OF BEGINNING.

PARCEL 2

BEGINNING AT A POINT O N THE WESTERN LINE OF KEN" AVENUE FORMERLY LAUREL AVENUE, DISTANT THEREON NORTH 0° 41' EAST 513 FEET FROM THE NORTHERN LINE OF DELANO STREET, FORMERLY MAPLE STREET, AS SAID AVENUE AND STREET EXISTED PRIOR TO THE FILING OF THE MAP OF TRACT 909, ON JUNE 1, 1949 IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, AND OF RECORD IN MAP BOOK 30, AT PAGE 16; RUNNING THENCE NORTH 89° 19' WEST 250 FEET TO THE ACTUAL POINT OF COMMENCEMENT; THENCE NORTH 0° 41' EAST 30 FEET; THENCE NORTH 89° 19' WEST 50 FEET TO THE EASTERN LINE OF THE PARCEL OF LAND DESCRIBED IN DEED FROM BERNARD MADRID AND WIFE, TO SAN LORENZO SCHOOL DISTRICT OF ALAMEDA COUNTY, STATE OF CALIFORNIA, A PUBLIC CORPORATION, DATED GAINER 25, 1949 AND RECORDED FEBRUARY 11, 1949 IN BOOK 5726 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, PAGE 185, UNDER RECORDER'S SERIES NO AD/10328; RUNNING THENCE SOUTHERLY ALONG THE LAST NAMED LINE 180 FEET; THENCE SOUTH 89° 19' EAST 70 FEET, MORE OR LESS, TO THE WESTERN LINE OF THE PARCEL OF LAND DESCRIBED IN DEED FROM BERNARD MADRID AND WIFE, TO STANLEY T. FUKUCHI AND WIFE, DATED JANUARY 20, 1947 AND RECORDED FEBRUARY 13, 1947 IN BOOK 5988 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, PAGE 179, UNDER RECORDER'S SERIES NO. AB/12108; THENCE ALONG THE LAST NAMED LINE NORTH 0° 41' EAST 55 FEET TO THE SOUTHERN LINE OF THE PARCEL OF LAND DESCRIBED IN DEED FROM BERNARD MADRID AND WIFE TO MANUAL PRIEGO, DATED DECEMBER 31, 1948 AND RECORDED JANUARY 27, 1949 IN BOOK 5712 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, PAGE 357, UNDER RECORDER'S SERIES NO. AD/5974; THENCE ALONG THE SOUTHERN AND WESTERN LINES OF SAID PRIEGO PARCEL OF LAND NORTH 89° 19' WEST 20 FEET AND NORTH 0° 41' EAST 95 FEET TO THE ACTUAL POINT OF COMMENCEMENT.

PARCEL 3

A NON-EXCLUSIVE PERPETUAL EASEMENT AND RIGHT OF WAY APPURTENANT TO PARCEL 2 HEREIN AND ANY SUBDIVISION OR SUBDIVISIONS THEREOF, FOR USE AS A ROADWAY FOR VEHICLES OF ALL KINDS, PEDESTRIANS AND ANIMALS, FOR WATER, GAS, OIL AND SEWER PIPE LINES, AND FOR TELEPHONE, ELECTRIC LIGHT AND POWER LINES, TOGETHER WITH THE NECESSARY POLES OR CONDUITS TO CARRY SAID LINES OVER THE FOLLOWING DESCRIBED PROPERTY:

BEGINNING AT A POINT ON THE WESTERN LINE OF KENT AVENUE, FORMERLY LAUREL AVENUE, DISTANT THEREON NORTH 0° 41' EAST 513 FEET FROM THE NORTHERN LINE OF DELANO STREET FORMERLY MAPLE STREET, AS SAID AVENUE AND STREET EXISTED PRIOR TO THE FILING OF THE MAP OF TRACT 909 ON JUNE 1, 1949 IN THE OFFICE OF THE COUNTY RECORDER OF ALAMEDA COUNTY, AND OF RECORD IN MAP BOOK 30, AT PAGE 16; RUNNING THENCE ALONG THE LINE OF KENT AVENUE NORTH 0° 41' EAST 30 FEET; THENCE NORTH 89° 19' WEST 250 FEET; THENCE SOUTH 0° 41' WEST 30 FEET; THENCE SOUTH 89° 19' EAST 250 FEET TO THE POINT OF BEGINNING.

A. P. NOS.: 080C-0479-023-01
080C-0479-022 AND 080C-0479-023-02

Ashland Housing Project
16309 Kent Avenue
San Lorenzo, CA 94580

Inquiry Number: 3045045.2s
April 18, 2011

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

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	61
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-6
Physical Setting Source Map	A-10
Physical Setting Source Map Findings	A-12
Physical Setting Source Records Searched	A-20

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2011 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

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

16309 KENT AVENUE
SAN LORENZO, CA 94580

COORDINATES

Latitude (North):	37.695000 - 37° 41' 42.0''
Longitude (West):	122.114900 - 122° 6' 53.6''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	578032.9
UTM Y (Meters):	4172139.2
Elevation:	42 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	37122-F1 HAYWARD, CA
Most Recent Revision:	1980
West Map:	37122-F2 SAN LEANDRO, CA
Most Recent Revision:	1980

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2006, 2005
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

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

EXECUTIVE SUMMARY

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 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-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

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

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

DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
WMUDS/SWAT ..... Waste Management Unit 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
LUCIS ..... Land Use Control Information System
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

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
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

EXECUTIVE SUMMARY

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
CA BOND EXP. PLAN Bond Expenditure Plan
WDS Waste Discharge System
NPDES NPDES Permits Listing
Cortese "Cortese" Hazardous Waste & Substances Sites List
WIP Well Investigation Program Case List
HAZNET Facility and Manifest Data
EMI Emissions Inventory Data
INDIAN RESERV Indian Reservations
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
HWP EnviroStor Permitted Facilities Listing
HWT Registered Hazardous Waste Transporter Database
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE Financial Assurance Information Listing
PCB TRANSFORMER PCB Transformer Registration Database
PROC Certified Processors Database
MWMP Medical Waste Management Program Listing
COAL ASH DOE Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants EDR Proprietary Manufactured Gas Plants

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

Federal CERCLIS NFRAP site List

CERC-NFRAP: 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.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/28/2010 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
E. 14TH STREET AUTO WRECKERS	***16552 E. 14TH STREET***	***ESE 1/8 - 1/4 (0.232 mi.)***	***I33***	***44***

Federal RCRA generators list

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/17/2010 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BODYCRAFT CO	***16348 E 14TH STREET***	***NNE 0 - 1/8 (0.040 mi.)***	***1***	***8***
GREENHOUSE PROJECT	***1511 163RD AVE***	***NNE 1/8 - 1/4 (0.222 mi.)***	***31***	***36***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
WINDWILL CLEANERS	***16310 E 14TH ST***	***N 0 - 1/8 (0.066 mi.)***	***A4***	***15***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: 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.

A review of the ENVIROSTOR list, as provided by EDR, and dated 02/07/2011 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EAST 14TH STREET AUTOWRECKERS Status: No Further Action	16552 EAST 14TH ST	ESE 1/8 - 1/4 (0.232 mi.)	I35	45
EAST 14TH STREET AUTO WRECKERS Status: Refer: Other Agency	16552 EAST 14TH STREET	ESE 1/8 - 1/4 (0.233 mi.)	I36	46

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 02/03/2011 has revealed that there are 11 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALCO EDEN CONSOLIDATED FIRE DI Status: Completed - Case Closed	1430 164TH AVENUE	ENE 1/8 - 1/4 (0.127 mi.)	D19	29
PLANTS UNLIMITED Status: Completed - Case Closed	***16450 KENT AVE***	***SSE 1/8 - 1/4 (0.194 mi.)***	***F28***	***33***
167TH GAS STATION Status: Open - Site Assessment	16690 E. 14TH STREET	SE 1/4 - 1/2 (0.324 mi.)	L44	51
HIROS NURSERY INC Status: Completed - Case Closed	***1630 162ND***	***N 1/4 - 1/2 (0.365 mi.)***	***M47***	***53***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JACK HOLLAND Status: Open - Remediation	***16301 14TH***	***NNW 0 - 1/8 (0.075 mi.)***	***A6***	***17***
GARCIA ENTERPRISES Status: Completed - Case Closed	***16211 14TH***	***NW 1/8 - 1/4 (0.185 mi.)***	***G26***	***32***
L&D SCAFFOLD INC Status: Completed - Case Closed	1420 162ND	NNW 1/8 - 1/4 (0.205 mi.)	H29	35
OKADA PROPERTY Status: Completed - Case Closed	***16109 ASHLAND***	***WNW 1/8 - 1/4 (0.243 mi.)***	***37***	***47***
MARY PETSAS Status: Completed - Case Closed	***16035 14TH***	***NW 1/4 - 1/2 (0.317 mi.)***	***40***	***48***
ABC AUTO REPAIR Status: Completed - Case Closed	***15960 14TH***	***NW 1/4 - 1/2 (0.391 mi.)***	***48***	***54***
CALIFORNIA NATIONAL GUARD FACI Status: Completed - Case Closed	***16501 ASHLAND***	***SSW 1/4 - 1/2 (0.442 mi.)***	***N49***	***55***

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 02/03/2011 has revealed that there are 4 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KENT GARDENS Facility Status: Completed - Case Closed	16438 KENT AVENUE	SSE 1/8 - 1/4 (0.179 mi.)	F24	31
SEE THE DOCTOR TRANSMISSION Facility Status: Open - Site Assessment	16611 14TH	SE 1/4 - 1/2 (0.273 mi.)	J38	48
ABANDONED WELL Facility Status: Completed - Case Closed	1619 162ND	N 1/4 - 1/2 (0.354 mi.)	M46	52

Lower Elevation	Address	Direction / Distance	Map ID	Page
HANK'S AUTOMOTIVE SERVICE Facility Status: Open - Site Assessment	16065 MATEO	NNW 1/4 - 1/2 (0.324 mi.)	K41	50

EXECUTIVE SUMMARY

Alameda County CS: 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).

A review of the Alameda County CS list, as provided by EDR, and dated 01/06/2011 has revealed that there are 14 Alameda County CS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EDEN CONS. FIRE PROT. DIST. ST	***1430 164TH AVE***	***ENE 1/8 - 1/4 (0.128 mi.)***	***D21***	***30***
PLANTS UNLIMITED	***16450 KENT AVE***	***SSE 1/8 - 1/4 (0.194 mi.)***	***F28***	***33***
SEE THE DOCTOR TRANSMISSION	16611 E 14TH ST	SE 1/4 - 1/2 (0.277 mi.)	J39	48
AGP, INC	***16690 E 14TH ST***	***SE 1/4 - 1/2 (0.324 mi.)***	***L43***	***51***
ABANDONED WELL	***1619 162ND AVE***	***N 1/4 - 1/2 (0.354 mi.)***	***M45***	***52***
HIROS NURSERY INC	***1630 162ND***	***N 1/4 - 1/2 (0.365 mi.)***	***M47***	***53***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JACK HOLLAND	***16301 14TH***	***NNW 0 - 1/8 (0.075 mi.)***	***A6***	***17***
GARCIA ENTERPRISES	16211 E 14TH ST	NW 1/8 - 1/4 (0.182 mi.)	G25	32
L&D SCAFFOLD INC	***1420 162ND AVE***	***NNW 1/8 - 1/4 (0.205 mi.)***	***H30***	***36***
OKADA PROPERTY	***16109 ASHLAND***	***WNW 1/8 - 1/4 (0.243 mi.)***	***37***	***47***
MARY PETSAS	***16035 14TH***	***NW 1/4 - 1/2 (0.317 mi.)***	***40***	***48***
HANK'S AUTOMOTIVE SERVICE	***16065 MATEO ST***	***NNW 1/4 - 1/2 (0.324 mi.)***	***K42***	***50***
ABC AUTO REPAIR	***15960 14TH***	***NW 1/4 - 1/2 (0.391 mi.)***	***48***	***54***
CALIFORNIA NATIONAL GUARD FACI	***16501 ASHLAND***	***SSW 1/4 - 1/2 (0.442 mi.)***	***N49***	***55***

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 02/03/2011 has revealed that there are 4 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALAMEDA COUNTY FIRE DEPT. STAT	1426 164TH AVE.	ENE 0 - 1/8 (0.124 mi.)	D14	26
ALAMEDA COUNTY FIRE STATION #3	1430 164TH AVE	ENE 1/8 - 1/4 (0.128 mi.)	D22	31
E. 14TH STREET AUTO WRECKERS	***16552 E. 14TH STREET***	***ESE 1/8 - 1/4 (0.232 mi.)***	***I33***	***44***
FACILITY 01-000-502126	16552 E. 14TH ST.	ESE 1/8 - 1/4 (0.232 mi.)	I34	45

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 11/18/2010 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
J C HAULING AND RECYCLING	1560 167TH AVE	E 1/4 - 1/2 (0.444 mi.)	51	59

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 is 1 CA FID UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
JACK HOLLAND SR OIL CO	16301 E 14TH ST	NNW 0 - 1/8 (0.080 mi.)	A8	24

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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EDEN CONS. FIRE PROT. DIST. ST	***1430 164TH AVE***	***ENE 1/8 - 1/4 (0.128 mi.)***	***D21***	***30***
PLANTS UNLIMITED	***16450 KENT AVE***	***SSE 1/8 - 1/4 (0.194 mi.)***	***F28***	***33***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JACK HOLLAND	***16301 14TH***	***NNW 0 - 1/8 (0.075 mi.)***	***A6***	***17***

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 4 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ELEANOR MASSIE	16325 KENT AVE	SE 0 - 1/8 (0.051 mi.)	2	9
CHRIS'S GARAGE SALES	16446 E 14TH	ESE 0 - 1/8 (0.125 mi.)	C15	27
PLANTS UNLIMITED	***16450 KENT AVE***	***SSE 1/8 - 1/4 (0.194 mi.)***	***F28***	***33***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JACK HOLLAND	***16301 14TH***	***NNW 0 - 1/8 (0.075 mi.)***	***A6***	***17***

Other Ascertainable Records

RCRA-NonGen: 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.

A review of the RCRA-NonGen list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-NonGen site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
REFINERIES SERV INC	***16301 E 14TH AVE***	***NNW 0 - 1/8 (0.080 mi.)***	***A9***	***24***

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].

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 10 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHRIS' RICHFIELD SERVICE	16446 14TH	ESE 1/8 - 1/4 (0.125 mi.)	C18	28
EDEN CONSOLIDATED FIRE DI	1430 164TH	ENE 1/8 - 1/4 (0.127 mi.)	D20	29
PLANTS UNLIMITED	***16450 KENT AVE***	***SSE 1/8 - 1/4 (0.194 mi.)***	***F28***	***33***
HIROS NURSERY INC	***1630 162ND***	***N 1/4 - 1/2 (0.365 mi.)***	***M47***	***53***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JACK HOLLAND	***16301 14TH***	***NNW 0 - 1/8 (0.075 mi.)***	***A6***	***17***
GARCIA ENTERPRISES	***16211 14TH***	***NW 1/8 - 1/4 (0.185 mi.)***	***G26***	***32***
OKADA PROPERTY	***16109 ASHLAND***	***WNW 1/8 - 1/4 (0.243 mi.)***	***37***	***47***
MARY PETSAS	***16035 14TH***	***NW 1/4 - 1/2 (0.317 mi.)***	***40***	***48***
ABC AUTO REPAIR	***15960 14TH***	***NW 1/4 - 1/2 (0.391 mi.)***	***48***	***54***
OMS #35	***16501 ASHLAND AVE***	***SSW 1/4 - 1/2 (0.442 mi.)***	***N50***	***56***

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 3 Notify 65 sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL SERVICE STATION #6277	15803 EAST 14TH STREET	NW 1/2 - 1 (0.532 mi.)	52	59
FOUR STAR LUMBER CO	15444 HESPERIAN BOULEVA	WSW 1/2 - 1 (0.865 mi.)	53	59
USA PETROLEUM	15120 HEPERIAN BOULEVAR	WNW 1/2 - 1 (0.942 mi.)	54	60

DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 09/15/2010 has revealed that there are 2 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SUPREME LEATHER & RUG CO	***16549 E 14TH ST***	***SE 1/8 - 1/4 (0.227 mi.)***	***I32***	***38***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
WINDMILL CLEANERS	***16310 E 14TH ST***	***N 0 - 1/8 (0.066 mi.)***	***A3***	***9***

EDR PROPRIETARY RECORDS

EDR Proprietary Records

EDR Historical Auto 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.

A review of the EDR Historical Auto Stations list, as provided by EDR, has revealed that there are 9 EDR Historical Auto Stations sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TAVARES MANUEL	16396 E 14TH ST	E 0 - 1/8 (0.070 mi.)	B5	17
ASHLAND SUPER SERVICE	16407 E 14TH ST	ESE 0 - 1/8 (0.078 mi.)	B7	23
PARKS GARAGE & WELDING SHOP	16410 E 14TH ST	ESE 0 - 1/8 (0.089 mi.)	B12	26
CHRIS SUPER SERVICE	16442 E 14TH ST	ESE 0 - 1/8 (0.121 mi.)	C13	26
SILVA CHRIS	16446 E 14TH ST	ESE 0 - 1/8 (0.125 mi.)	C16	28
PAPPAS GUST	16496 E 14TH ST	ESE 1/8 - 1/4 (0.188 mi.)	27	33
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
PEDRO S CORNER	16296 E 14TH ST	NNW 0 - 1/8 (0.083 mi.)	A10	25
FRED & MIKE S	16260 E 14TH ST	NNW 0 - 1/8 (0.124 mi.)	E17	28
ATAIDE GEO	16244 E 14TH ST	NNW 1/8 - 1/4 (0.143 mi.)	E23	31

EDR Historical 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.

A review of the EDR Historical Cleaners list, as provided by EDR, has revealed that there is 1 EDR

EXECUTIVE SUMMARY

Historical Cleaners site within approximately 0.25 miles of the target property.

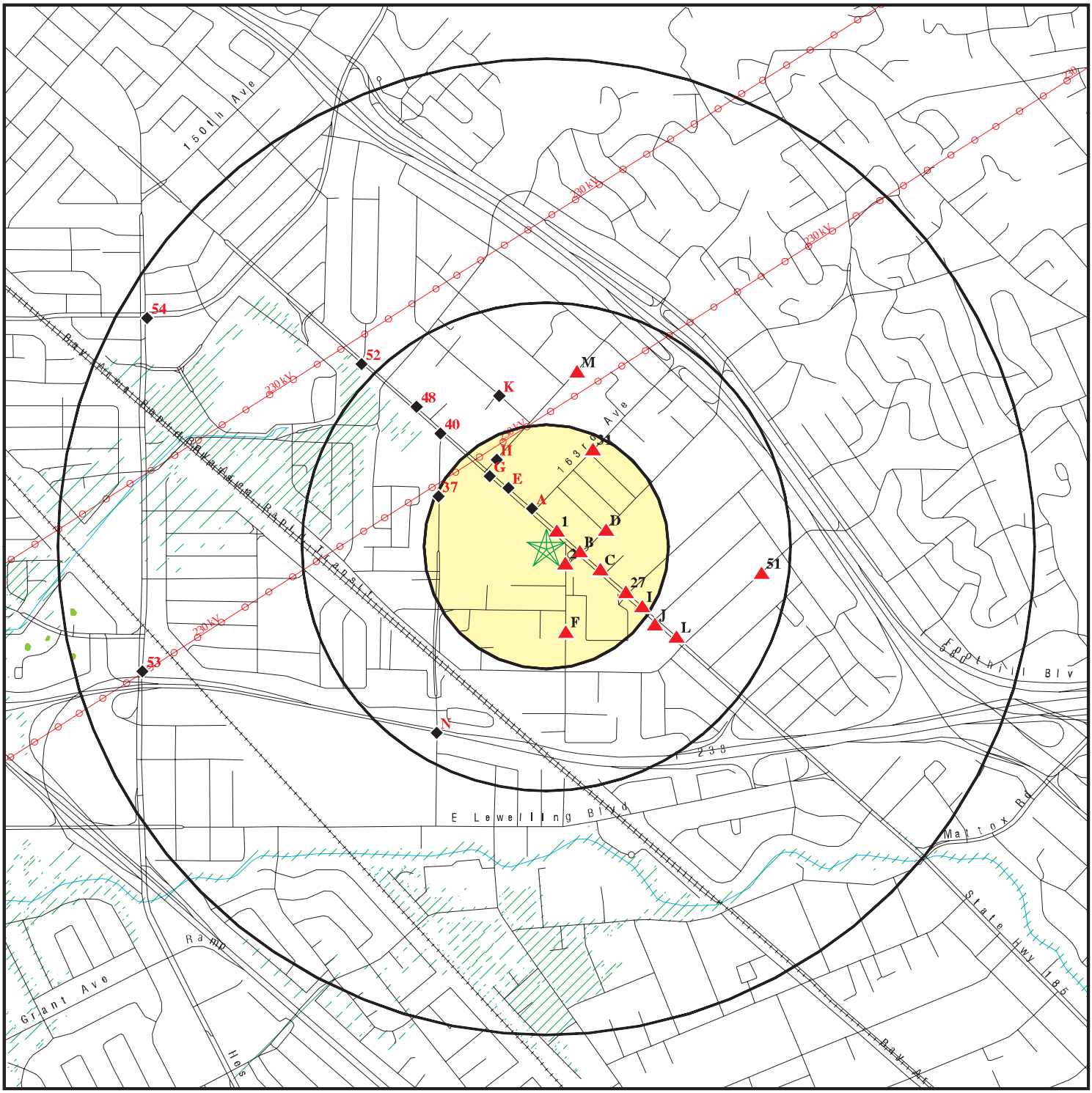
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOPEZ LUCILLE MRS	16408 E 14TH ST	ESE 0 - 1/8 (0.087 mi.)	B11	26

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

Site Name	Database(s)
ROUTE 238 CORRIDOR IMPROVEMENT PRO	NPDES
WEST A STREET REALIGNMENT PROJECT	NPDES
KENT GARDENS SENIOR HOUSING	NPDES
EDEN ROCK PROPS	CERC-NFRAP
ARDEN ROAD PROPERTY	CERC-NFRAP
BAY CITIES RUBBISH DSPL CO	CERC-NFRAP
PG&E GAS PLANT SAN LEANDRO	CERC-NFRAP

OVERVIEW MAP - 3045045.2s



0 1/4 1/2 1 Miles

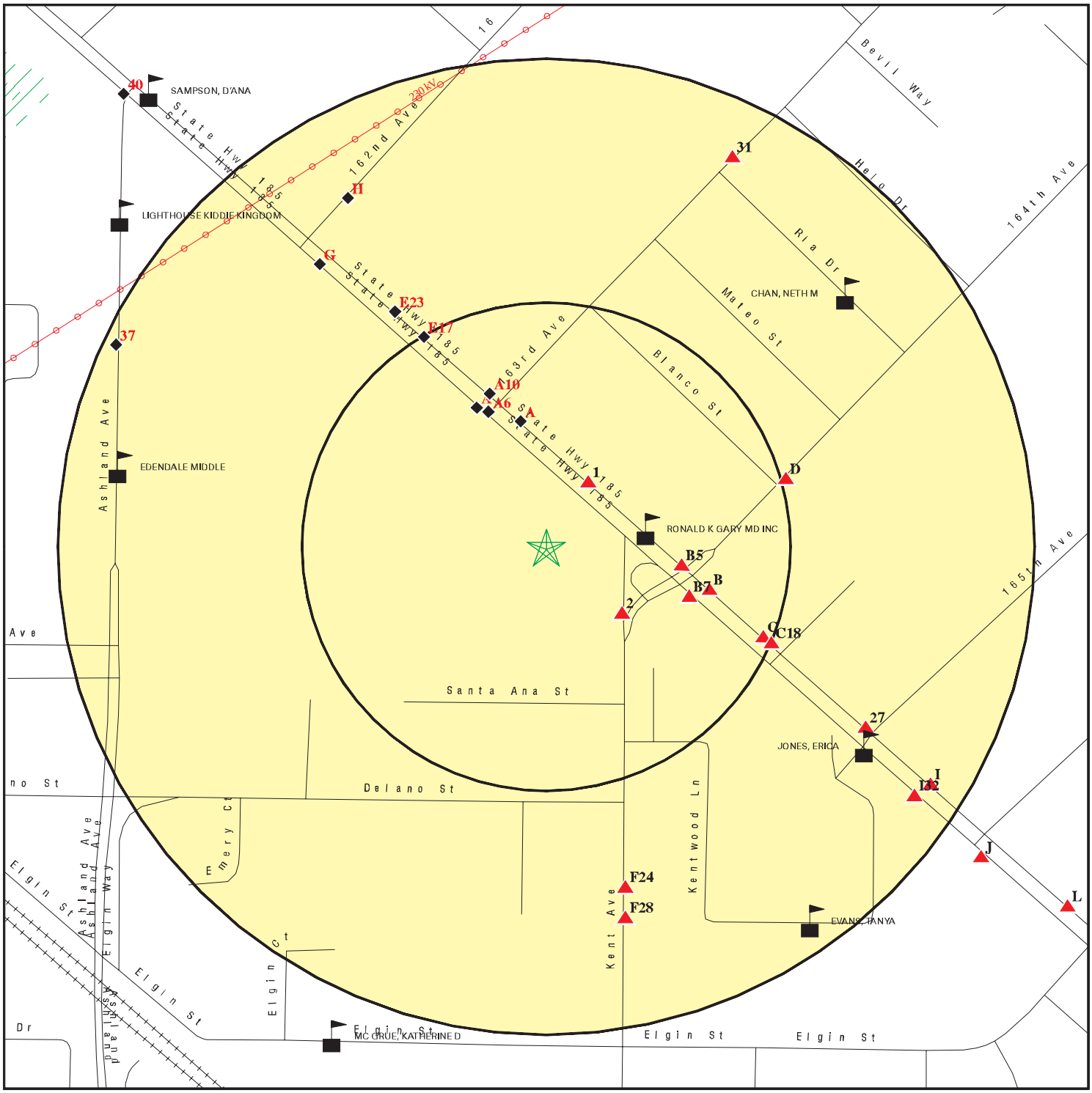
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year 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: Ashland Housing Project ADDRESS: 16309 Kent Avenue San Lorenzo CA 94580 LAT/LONG: 37.6950 / 122.1149	CLIENT: RGA Environmental CONTACT: Belinda Blackie INQUIRY #: 3045045.2s DATE: April 18, 2011 6:44 pm

Copyright © 2011 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

DETAIL MAP - 3045045.2s



- 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
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- 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: Ashland Housing Project	CLIENT: RGA Environmental
ADDRESS: 16309 Kent Avenue San Lorenzo CA 94580	CONTACT: Belinda Blackie
LAT/LONG: 37.6950 / 122.1149	INQUIRY #: 3045045.2s DATE: April 18, 2011 6:45 pm

Copyright © 2011 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 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		1.000	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	0	1	0	NR	NR	1
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	2	1	NR	NR	NR	3
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
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	2	0	0	NR	2
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	1	5	5	NR	NR	11
SLIC		0.500	0	1	3	NR	NR	4

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Alameda County CS		0.500	1	5	8	NR	NR	14
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST		0.250	1	3	NR	NR	NR	4
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								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	1	NR	NR	1
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	NR	NR	NR	1
HIST UST		0.250	1	2	NR	NR	NR	3
SWEEPS UST		0.250	3	1	NR	NR	NR	4
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	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	Target Property	Search Distance (Miles)	< 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		0.250	1	0	NR	NR	NR	1
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
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
CA BOND EXP. PLAN		1.000	0	0	0	0	NR	0
WDS		TP	NR	NR	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
HIST CORTESE		0.500	1	5	4	NR	NR	10
Notify 65		1.000	0	0	0	3	NR	3
DRYCLEANERS		0.250	1	1	NR	NR	NR	2
WIP		0.250	0	0	NR	NR	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
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
HWP		1.000	0	0	0	0	NR	0
HWT		0.250	0	0	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		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
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	7	2	NR	NR	NR	9
EDR Historical Cleaners		0.250	1	0	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NNE
< 1/8
0.040 mi.
211 ft.

BODYCRAFT CO
16348 E 14TH STREET
SAN LEANDRO, CA 94578

RCRA-SQG
FINDS

1000441257
CAD982478380

Relative:
Equal

Actual:
42 ft.

RCRA-SQG:

Date form received by agency:	03/29/1990
Facility name:	BODYCRAFT CO
Facility address:	16348 E 14TH STREET SAN LEANDRO, CA 94578
EPA ID:	CAD982478380
Contact:	ENVIRONMENTAL MANAGER
Contact address:	16348 E 14TH STREET SAN LEANDRO, CA 94578
Contact country:	US
Contact telephone:	(415) 278-1705
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	N ELDRIGE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

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:	Private
Owner/Operator Type:	Operator
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):	Unknown
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

BODYCRAFT CO (Continued) **1000441257**

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
Off-site waste receiver: Verified to be non-commercial

Violation Status: No violations found

FINDS:

Registry ID: 110002823758

Environmental Interest/Information System
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.

2
SE
< 1/8
0.051 mi.
272 ft.

ELEANOR MASSIE **SWEEPS UST** **S106925785**
16325 KENT AVE **N/A**
SAN LORENZO, CA 94580

Relative:
Higher

Actual:
44 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 51607
Number: Not reported
Board Of Equalization: Not reported
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-051607-000001
Actv Date: Not reported
Capacity: 550
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

A3
North
< 1/8
0.066 mi.
346 ft.

WINDMILL CLEANERS **DRYCLEANERS** **S100878392**
16310 E 14TH ST **HAZNET** **N/A**
SAN LEANDRO, CA 94578

Site 1 of 6 in cluster A

Relative:
Lower

Actual:
41 ft.

DRYCLEANERS:
EPA Id: CAL000333915
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7389

WINDMILL CLEANERS (Continued) **S100878392**

SIC Description:	Business Services, NEC (apparel pressing service for the trade)
Create Date:	6/23/2008 8:23:00 AM
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16310 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	945783110
Region Code:	2
Owner Name:	DONG BOK SONG
Owner Address:	20957 WILBEAM AVE
Owner Address 2:	Not reported
Owner Telephone:	5103816353
Contact Name:	DANIEL KIM
Contact Address:	16310 E 14TH ST
Contact Address 2:	Not reported
Contact Telephone:	5102764214

EPA Id:	CAD982008666
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7219
SIC Description:	Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)
Create Date:	3/1/1988
Facility Active:	No
Inactive Date:	6/30/2008
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16310 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	945783110
Region Code:	2
Owner Name:	DANIEL KIM
Owner Address:	16310 E 14TH ST
Owner Address 2:	Not reported
Owner Telephone:	5102764214
Contact Name:	DANIEL KIM
Contact Address:	16310 E 14TH ST
Contact Address 2:	Not reported
Contact Telephone:	5102764214

EPA Id:	CAD982008666
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	3/1/1988
Facility Active:	No
Inactive Date:	6/30/2008
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16310 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA

WINDMILL CLEANERS (Continued) **S100878392**

Mailing Zip: 945783110
Region Code: 2
Owner Name: DANIEL KIM
Owner Address: 16310 E 14TH ST
Owner Address 2: Not reported
Owner Telephone: 5102764214
Contact Name: DANIEL KIM
Contact Address: 16310 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5102764214

EPA Id: CAL000333915
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7212
SIC Description: Garment Pressing, and Agents for Laundries and Drycleaners
Create Date: 6/23/2008 8:23:00 AM
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16310 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA
Mailing Zip: 945783110
Region Code: 2
Owner Name: DONG BOK SONG
Owner Address: 20957 WILBEAM AVE
Owner Address 2: Not reported
Owner Telephone: 5103816353
Contact Name: DANIEL KIM
Contact Address: 16310 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5102764214

EPA Id: CAD982008666
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7216
SIC Description: Drycleaning Plants, Except Rug Cleaning
Create Date: 3/1/1988
Facility Active: No
Inactive Date: 6/30/2008
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16310 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA
Mailing Zip: 945783110
Region Code: 2
Owner Name: DANIEL KIM
Owner Address: 16310 E 14TH ST
Owner Address 2: Not reported
Owner Telephone: 5102764214
Contact Name: DANIEL KIM
Contact Address: 16310 E 14TH ST
Contact Address 2: Not reported

WINDMILL CLEANERS (Continued) **S100878392**

Contact Telephone: 5102764214

EPA Id: CAL000333915
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7219
SIC Description: Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)
Create Date: 6/23/2008 8:23:00 AM
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16310 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA
Mailing Zip: 945783110
Region Code: 2
Owner Name: DONG BOK SONG
Owner Address: 20957 WILBEAM AVE
Owner Address 2: Not reported
Owner Telephone: 5103816353
Contact Name: DANIEL KIM
Contact Address: 16310 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5102764214

EPA Id: CAD982008666
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7389
SIC Description: Business Services, NEC (apparel pressing service for the trade)
Create Date: 3/1/1988
Facility Active: No
Inactive Date: 6/30/2008
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16310 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA
Mailing Zip: 945783110
Region Code: 2
Owner Name: DANIEL KIM
Owner Address: 16310 E 14TH ST
Owner Address 2: Not reported
Owner Telephone: 5102764214
Contact Name: DANIEL KIM
Contact Address: 16310 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5102764214

EPA Id: CAL000333915
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 6/23/2008 8:23:00 AM
Facility Active: Yes

WINDMILL CLEANERS (Continued) **S100878392**

Inactive Date:	Not reported
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16310 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	945783110
Region Code:	2
Owner Name:	DONG BOK SONG
Owner Address:	20957 WILBEAM AVE
Owner Address 2:	Not reported
Owner Telephone:	5103816353
Contact Name:	DANIEL KIM
Contact Address:	16310 E 14TH ST
Contact Address 2:	Not reported
Contact Telephone:	5102764214

EPA Id:	CAL000333915
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7216
SIC Description:	Drycleaning Plants, Except Rug Cleaning
Create Date:	6/23/2008 8:23:00 AM
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16310 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	945783110
Region Code:	2
Owner Name:	DONG BOK SONG
Owner Address:	20957 WILBEAM AVE
Owner Address 2:	Not reported
Owner Telephone:	5103816353
Contact Name:	DANIEL KIM
Contact Address:	16310 E 14TH ST
Contact Address 2:	Not reported
Contact Telephone:	5102764214

EPA Id:	CAD982008666
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7212
SIC Description:	Garment Pressing, and Agents for Laundries and Drycleaners
Create Date:	3/1/1988
Facility Active:	No
Inactive Date:	6/30/2008
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16310 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	945783110
Region Code:	2
Owner Name:	DANIEL KIM

WINDMILL CLEANERS (Continued) **S100878392**

Owner Address: 16310 E 14TH ST
Owner Address 2: Not reported
Owner Telephone: 5102764214
Contact Name: DANIEL KIM
Contact Address: 16310 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5102764214

HAZNET:
Gepaid: CAD982008666
Contact: CHEONSIK LIN
Telephone: 5102767336
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16310 E 14TH ST
Mailing City,St,Zip: SAN LEANDRO, CA 945783110
Gen County: 1
TSD EPA ID: CAD053044053
TSD County: 1
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01
Tons: .8025
Facility County: 1

Gepaid: CAD982008666
Contact: CHEONSIK LIN
Telephone: 5102767336
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16310 E 14TH ST
Mailing City,St,Zip: SAN LEANDRO, CA 945783110
Gen County: 1
TSD EPA ID: CAD053044053
TSD County: 1
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01
Tons: .7275
Facility County: 1

Gepaid: CAD982008666
Contact: CHEONSIK LIN
Telephone: 5102767336
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16310 E 14TH ST
Mailing City,St,Zip: SAN LEANDRO, CA 945783110
Gen County: 1
TSD EPA ID: CA0000084517
TSD County: Sacramento
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H01
Tons: .2925
Facility County: 1

Gepaid: CAD982008666
Contact: CHEON SIK LIM
Telephone: 5102767336

WINDMILL CLEANERS (Continued) **S100878392**

Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16310 E 14TH ST
Mailing City,St,Zip:	SAN LEANDRO, CA 945783110
Gen County:	Alameda
TSD EPA ID:	Not reported
TSD County:	Sacramento
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01
Tons:	0.09
Facility County:	Not reported

Gepaid:	CAD982008666
Contact:	CHEONSIK LIN
Telephone:	5102767336
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16310 E 14TH ST
Mailing City,St,Zip:	SAN LEANDRO, CA 945783110
Gen County:	1
TSD EPA ID:	CA0000084517
TSD County:	Sacramento
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	H01
Tons:	.3525
Facility County:	1

Click this hyperlink while viewing on your computer to access
7 additional CA_HAZNET: record(s) in the EDR Site Report.

A4 **WINDWILL CLEANERS** **RCRA-SQG** **1000193464**
North **16310 E 14TH ST** **FINDS** **CAD982008666**
< 1/8 **SAN LEANDRO, CA 94578**
0.066 mi.
346 ft. **Site 2 of 6 in cluster A**

Relative:
Lower

Actual:
41 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	WINDWILL CLEANERS
Facility address:	16310 E 14TH ST SAN LEANDRO, CA 94578
EPA ID:	CAD982008666
Mailing address:	E 14TH ST SAN LEANDRO, CA 94578
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

WINDWILL CLEANERS (Continued) **1000193464**

Owner/Operator Summary:

Owner/operator name:	FLOYD SHUFFIELD
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

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:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
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:	Unknown
Furnace exemption:	Unknown
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
Off-site waste receiver:	Verified to be non-commercial

Violation Status: No violations found

FINDS:

Registry ID: 110002429346

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.

B5 **TAVARES MANUEL** **EDR Historical Auto Stations** **1009013505**
East **16396 E 14TH ST** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.070 mi.
372 ft. **Site 1 of 4 in cluster B**

Relative:
Higher

Actual:
44 ft.

EDR Historical Auto Stations:
Name: TAVARES MANUEL
Year: 1946
Type: GASOLINE AND OIL SERVICE STATIONS

A6 **JACK HOLLAND** **HIST CORTESE** **U001598514**
NNW **16301 14TH** **LUST** **N/A**
< 1/8 **SAN LEANDRO, CA 94578** **Alameda County CS**
0.075 mi. **HIST UST**
397 ft. **Site 3 of 6 in cluster A** **SWEEPS UST**
HAZNET

Relative:
Lower

Actual:
40 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0771

LUST:
Region: STATE
Global Id: T0600100709
Latitude: 37.695608301
Longitude: -122.116211
Case Type: LUST Cleanup Site
Status: Open - Remediation
Status Date: 2009-10-21 00:00:00
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: JTW
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-0771
LOC Case Number: RO0000212
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel, Gasoline
Site History: The site is located at 16301 East 14th Street, in San Leandro, California. The site was formerly utilized as a bulk fuel storage and distribution facility. HARD intends to complete the assessment of subsurface contamination, perform remediation as necessary, and redevelop the land for public use. The site was utilized as a bulk fuel storage and distribution facility from the 1960?s to the mid 1980?s. There were eight USTs located on site, three of which contained gasoline, two contained diesel, two contained kerosene, and one contained stoddard solvent. The USTs were removed in 1998 and the excavated overburden soil was placed back in the UST excavation. A warehouse located in the southwestern corner of the site was reportedly historically used for vehicle storage and maintenance. A series of environmental evaluations of site soil and groundwater have been conducted since 1990. This testing evaluated the presence of a broad array of potential use-related chemicals; the results of

Click here to access the California GeoTracker records for this facility:

JACK HOLLAND (Continued) **U001598514**

LUST REG 2:
Region: 2
Facility Id: 01-0771
Facility Status: Preliminary site assessment underway
Case Number: 2423
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: 6/1/1993
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: 1/2/1965
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

Alameda County CS:
Status: Pollution Characterization
Record Id: RO0000212
PE: 5602

Status: Preliminary site assessment workplan submitted
Record Id: RO0000212
PE: 5602

HIST UST:
Region: STATE
Facility ID: 00000001710
Facility Type: Other
Other Type: OIL JOBBER
Total Tanks: 0008
Contact Name: WAYNE LOYD
Telephone: 4154812288
Owner Name: JACK HOLLAND SR OIL CO.
Owner Address: 16301 EAST 14TH STREET
Owner City,St,Zip: SAN LEANDRO, CA 94578

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 8
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: Stock Inventor

JACK HOLLAND (Continued) **U001598514**

Tank Num: 003
Container Num: 7
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 6
Year Installed: Not reported
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 006
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 007
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 008
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Stock Inventor

SWEEPS UST:
Status: A
Comp Number: 200

JACK HOLLAND (Continued) **U001598514**

Number: 1
Board Of Equalization: Not reported
Ref Date: 03-14-91
Act Date: 09-17-93
Created Date: 03-14-91
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-000200-000001
Actv Date: 03-14-91
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: LEADED
Number Of Tanks: 8

Status: A
Comp Number: 200
Number: 1
Board Of Equalization: Not reported
Ref Date: 03-14-91
Act Date: 09-17-93
Created Date: 03-14-91
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-000200-000002
Actv Date: 03-14-91
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 200
Number: 1
Board Of Equalization: Not reported
Ref Date: 03-14-91
Act Date: 09-17-93
Created Date: 03-14-91
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-000200-000003
Actv Date: 03-14-91
Capacity: 10000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 200
Number: 1
Board Of Equalization: Not reported
Ref Date: 03-14-91
Act Date: 09-17-93
Created Date: 03-14-91
Tank Status: A

JACK HOLLAND (Continued) **U001598514**

Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-000200-000004
Actv Date:	03-14-91
Capacity:	5000
Tank Use:	HAZARDOUS
Stg:	P
Content:	KEROSENE
Number Of Tanks:	Not reported
Status:	A
Comp Number:	200
Number:	1
Board Of Equalization:	Not reported
Ref Date:	03-14-91
Act Date:	09-17-93
Created Date:	03-14-91
Tank Status:	A
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-000200-000005
Actv Date:	03-14-91
Capacity:	6000
Tank Use:	M.V. FUEL
Stg:	P
Content:	DIESEL
Number Of Tanks:	Not reported
Status:	A
Comp Number:	200
Number:	1
Board Of Equalization:	Not reported
Ref Date:	03-14-91
Act Date:	09-17-93
Created Date:	03-14-91
Tank Status:	A
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-000200-000006
Actv Date:	03-14-91
Capacity:	5000
Tank Use:	HAZARDOUS
Stg:	P
Content:	KEROSENE
Number Of Tanks:	Not reported
Status:	A
Comp Number:	200
Number:	1
Board Of Equalization:	Not reported
Ref Date:	03-14-91
Act Date:	09-17-93
Created Date:	03-14-91
Tank Status:	A
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-000200-000007
Actv Date:	03-14-91
Capacity:	5000
Tank Use:	M.V. FUEL
Stg:	P

JACK HOLLAND (Continued) **U001598514**

Content: DIESEL
Number Of Tanks: Not reported

Status: A
Comp Number: 200
Number: 1
Board Of Equalization: Not reported
Ref Date: 03-14-91
Act Date: 09-17-93
Created Date: 03-14-91
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-000200-000008
Actv Date: 03-14-91
Capacity: 12000
Tank Use: HAZARDOUS
Stg: P
Content: KEROSENE
Number Of Tanks: Not reported

HAZNET:
Gepaid: CAC002627882
Contact: ANN HOLLAND
Telephone: 5107824307
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1498 HAMRICK LN
Mailing City,St,Zip: HAYWARD, CA 945444338
Gen County: Alameda
TSD EPA ID: CAD982411993
TSD County: Alameda
Waste Category: Polychlorinated biphenyls and material containing PCBs
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.29864
Facility County: Alameda

Gepaid: CAC001085240
Contact: JACK HOLLAND SR.
Telephone: 0000000000
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1498 HAMRICK LN
Mailing City,St,Zip: HAYWARD, CA 945440000
Gen County: 1
TSD EPA ID: CAD009466392
TSD County: 7
Waste Category: Other empty containers 30 gallons or more
Disposal Method: R01
Tons: 24.7425
Facility County: 1

Gepaid: CAC001085240
Contact: JACK HOLLAND SR.
Telephone: 0000000000
Facility Addr2: Not reported
Mailing Name: Not reported

JACK HOLLAND (Continued) **U001598514**

Mailing Address: 1498 HAMRICK LN
Mailing City,St,Zip: HAYWARD, CA 945440000
Gen County: 1
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: D99
Tons: 2.7105
Facility County: 1

Gepaid: CAC001085240
Contact: JACK HOLLAND SR.
Telephone: 0000000000
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1498 HAMRICK LN
Mailing City,St,Zip: HAYWARD, CA 945440000
Gen County: 1
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Unspecified organic liquid mixture
Disposal Method: D99
Tons: 1.8765
Facility County: 1

Gepaid: CAC001085240
Contact: JACK HOLLAND SR.
Telephone: 0000000000
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1498 HAMRICK LN
Mailing City,St,Zip: HAYWARD, CA 945440000
Gen County: 1
TSD EPA ID: CAD059494310
TSD County: Santa Clara
Waste Category: Unspecified organic liquid mixture
Disposal Method: Not reported
Tons: 9.3408
Facility County: 1

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

B7 **ASHLAND SUPER SERVICE** **EDR Historical Auto Stations** **1009013904**
ESE **16407 E 14TH ST** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.078 mi.
410 ft. **Site 2 of 4 in cluster B**

Relative:
Higher

Actual:
45 ft.

EDR Historical Auto Stations:
Name: ASHLAND SUPER SERVICE
Year: 1951
Type: GASOLINE STATIONS

A8
NNW
< 1/8
0.080 mi.
420 ft.

JACK HOLLAND SR OIL CO
16301 E 14TH ST
SAN LEANDRO, CA 94578

CA FID UST **S101624162**
N/A

Site 4 of 6 in cluster A

Relative:
Lower

Actual:
40 ft.

CA FID UST:

Facility ID:	01000895
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4154812288
Mail To:	Not reported
Mailing Address:	16301 E 14TH ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SAN LEANDRO 94578
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

A9
NNW
< 1/8
0.080 mi.
420 ft.

REFINERIES SERV INC
16301 E 14TH AVE
SAN LEANDRO, CA 94578

RCRA-NonGen **1000256589**
FINDS **CAD980817332**

Site 5 of 6 in cluster A

Relative:
Lower

Actual:
40 ft.

RCRA-NonGen:

Date form received by agency:	08/05/1983
Facility name:	REFINERIES SERV INC
Facility address:	16301 E 14TH AVE SAN LEANDRO, CA 94578
EPA ID:	CAD980817332
Mailing address:	PO BOX 1171 PATTERSON, CA 95363
Contact:	ENVIRONMENTAL MANAGER
Contact address:	16301 E FOURTEEN AVE SAN LEANDRO, CA 94578
Contact country:	US
Contact telephone:	(209) 892-6742
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:	JACK HOLLAND SR
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

REFINERIES SERV INC (Continued) **1000256589**

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: Private
Owner/Operator Type: Operator
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): Unknown
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
Off-site waste receiver: Verified to be non-commercial

Violation Status: No violations found

FINDS:

Registry ID: 110002672509

Environmental Interest/Information System
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.

A10 **PEDRO S CORNER** **EDR Historical Auto Stations** **1009011570**
NNW **16296 E 14TH ST** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.083 mi.
441 ft. **Site 6 of 6 in cluster A**

Relative:
Lower

Actual:
40 ft.

EDR Historical Auto Stations:
Name: ECHINIQUE PEDRO
Year: 1940
Type: GASOLINE AND OIL SERVICE STATIONS

Name: SAUGAR M G
Year: 1946
Type: GASOLINE AND OIL SERVICE STATIONS

PEDRO S CORNER (Continued) **1009011570**

Name: PEDRO S CORNER
Year: 1951
Type: GASOLINE STATIONS

B11 **LOPEZ LUCILLE MRS** **EDR Historical Cleaners** **1009141223**
ESE **16408 E 14TH ST** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.087 mi.
458 ft. **Site 3 of 4 in cluster B**

Relative:
Higher

Actual:
45 ft.

EDR Historical Cleaners:
Name: LOPEZ LUCILLE MRS
Year: 1946
Type: CLOTHES PRESSERS AND CLEANERS

B12 **PARKS GARAGE & WELDING SHOP** **EDR Historical Auto Stations** **1009011574**
ESE **16410 E 14TH ST** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.089 mi.
467 ft. **Site 4 of 4 in cluster B**

Relative:
Higher

Actual:
45 ft.

EDR Historical Auto Stations:
Name: SILVA J A
Year: 1946
Type: AUTOMOBILE REPAIRING

Name: PARKS GARAGE & WELDING SHOP
Year: 1951
Type: AUTOMOBILE REPAIRING

C13 **CHRIS SUPER SERVICE** **EDR Historical Auto Stations** **1009013927**
ESE **16442 E 14TH ST** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.121 mi.
638 ft. **Site 1 of 4 in cluster C**

Relative:
Higher

Actual:
47 ft.

EDR Historical Auto Stations:
Name: CHRIS SUPER SERVICE
Year: 1951
Type: AUTOMOBILE REPAIRING

D14 **ALAMEDA COUNTY FIRE DEPT. STATION 3** **UST** **U003776455**
ENE **1426 164TH AVE.** **N/A**
< 1/8 **SAN LEANDRO, CA 94578**
0.124 mi.
656 ft. **Site 1 of 5 in cluster D**

Relative:
Higher

Actual:
45 ft.

UST:
Facility ID: 883
Latitude: 37.69519
Longitude: -122.11304

C15
ESE
< 1/8
0.125 mi.
658 ft.

CHRIS'S GARAGE SALES
16446 E 14TH
SAN LEANDRO, CA 94578

Site 2 of 4 in cluster C

SWEEPS UST **S106924455**
N/A

Relative:
Higher

Actual:
47 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	11191
Number:	Not reported
Board Of Equalization:	44-035137
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-011191-000001
Actv Date:	Not reported
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	LEADED
Number Of Tanks:	4

Status:	Not reported
Comp Number:	11191
Number:	Not reported
Board Of Equalization:	44-035137
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-011191-000002
Actv Date:	Not reported
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	11191
Number:	Not reported
Board Of Equalization:	44-035137
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-011191-000003
Actv Date:	Not reported
Capacity:	1000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Not reported

CHRIS'S GARAGE SALES (Continued) **S106924455**

Comp Number:	11191
Number:	Not reported
Board Of Equalization:	44-035137
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-011191-000004
Actv Date:	Not reported
Capacity:	200
Tank Use:	OIL
Stg:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

C16 **SILVA CHRIS** **EDR Historical Auto Stations** **1009013501**
ESE **16446 E 14TH ST** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.125 mi.
658 ft. **Site 3 of 4 in cluster C**

Relative: **Higher**
Actual: **47 ft.**

EDR Historical Auto Stations:

Name:	SILVA CHRIS
Year:	1946
Type:	GASOLINE AND OIL SERVICE STATIONS

E17 **FRED & MIKE S** **EDR Historical Auto Stations** **1009014211**
NNW **16260 E 14TH ST** **N/A**
< 1/8 **SAN LEANDRO, CA**
0.124 mi.
656 ft. **Site 1 of 2 in cluster E**

Relative: **Lower**
Actual: **39 ft.**

EDR Historical Auto Stations:

Name:	FRED & MIKE S
Year:	1946
Type:	AUTOMOBILE REPAIRING

C18 **CHRIS' RICHFIELD SERVICE** **HIST CORTESE** **S102427865**
ESE **16446 14TH** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.125 mi.
662 ft. **Site 4 of 4 in cluster C**

Relative: **Higher**
Actual: **47 ft.**

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1736

D19 **ALCO EDEN CONSOLIDATED FIRE DISTRICT** **LUST** **S105035940**
ENE **1430 164TH AVENUE** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94577**
0.127 mi.
672 ft. **Site 2 of 5 in cluster D**

Relative:
Higher

Actual:
45 ft.

LUST:

Region:	STATE
Global Id:	T0600101643
Latitude:	37.695496
Longitude:	-122.11114
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	2010-04-08 00:00:00
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	MYL
Local Agency:	Not reported
RB Case Number:	01-1775
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:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

LUST REG 2:

Region:	2
Facility Id:	01-1775
Facility Status:	Preliminary site assessment underway
Case Number:	4459
How Discovered:	Tank Closure
Leak Cause:	UNK
Leak Source:	UNK
Date Leak Confirmed:	7/20/1993
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	1/2/1965
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

D20 **EDEN CONSOLIDATED FIRE DI** **HIST CORTESE** **S101293879**
ENE **1430 164TH** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94577**
0.127 mi.
672 ft. **Site 3 of 5 in cluster D**

Relative:
Higher

Actual:
45 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1775

D21
ENE
1/8-1/4
0.128 mi.
676 ft.

EDEN CONS. FIRE PROT. DIST. ST
1430 164TH AVE
SAN LEANDRO, CA 94578

Site 4 of 5 in cluster D

Alameda County CS **U001598509**
HIST UST **N/A**

Relative:
Higher

Actual:
45 ft.

Alameda County CS:
Status: Leak being confirmed
Record Id: RO0000263
PE: 5602

Status: Case Transferred
Record Id: RO0000263
PE: 5602

HIST UST:
Region: STATE
Facility ID: 00000058124
Facility Type: Other
Other Type: FIRE STATION
Total Tanks: 0003
Contact Name: Not reported
Telephone: 4158816058
Owner Name: EDEN CONSOLIDATED FIRE PROTECT
Owner Address: 427 PASEO GRANDE
Owner City,St,Zip: SAN LORENZO, CA 94580

Tank Num: 001
Container Num: 01
Year Installed: 1976
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 02
Year Installed: 1976
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 03
Year Installed: 1976
Tank Capacity: 00000280
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Stock Inventor

D22 **ALAMEDA COUNTY FIRE STATION #3** **UST** **U004014051**
ENE **1430 164TH AVE** **N/A**
1/8-1/4 **SAN LEANDRO, CA**
0.128 mi.
676 ft. **Site 5 of 5 in cluster D**

Relative:
Higher

Actual:
45 ft.

ALAMEDA CO. UST:
Facility ID: FA0300263
Program Element: 4102
Facility Status: Active
Description: UST - 2
Inspection Date: 10/20/2011
Closed: Not reported
Owner Name: COUNTY OF ALAMEDA

E23 **ATAIDE GEO** **EDR Historical Auto Stations** **1009013921**
NNW **16244 E 14TH ST** **N/A**
1/8-1/4 **SAN LEANDRO, CA**
0.143 mi.
756 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
38 ft.

EDR Historical Auto Stations:
Name: ATAIDE GEO
Year: 1951
Type: AUTOMOBILE REPAIRING

F24 **KENT GARDENS** **SLIC** **S106717778**
SSE **16438 KENT AVENUE** **N/A**
1/8-1/4 **SAN LORENZO, CA**
0.179 mi.
943 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
48 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 2007-01-11 00:00:00
Global Id: SL0600140278
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.692228
Longitude: -122.113783
Case Type: Cleanup Program Site
Case Worker: MYL
Local Agency: Not reported
RB Case Number: 01S0607
File Location: Regional Board
Potential Media Affected: Not reported
Potential Contaminants of Concern: * Pesticides/Herbicides
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

G25 **GARCIA ENTERPRISES** **Alameda County CS** **S106880539**
NW **16211 E 14TH ST** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.182 mi.
963 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
37 ft.

Alameda County CS:
Status: Case Closed
Record Id: RO0000590
PE: 5602

G26 **GARCIA ENTERPRISES** **HIST CORTESE** **S102430590**
NW **16211 14TH** **LUST** **N/A**
1/8-1/4 **OAKLAND, CA 94578**
0.185 mi.
978 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
37 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1784

LUST:
Region: STATE
Global Id: T0600101652
Latitude: 37.696882
Longitude: -122.115807
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 1993-12-28 00:00:00
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: SOS
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1784
LOC Case Number: RO0000590
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 REG 2:
Region: 2
Facility Id: 01-1784
Facility Status: Case Closed
Case Number: 3745
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: UNK
Date Leak Confirmed: 2/7/1992
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

27
ESE
1/8-1/4
0.188 mi.
991 ft.

PAPPAS GUST
16496 E 14TH ST
SAN LEANDRO, CA

EDR Historical Auto Stations

1009011569
N/A

Relative:
Higher

Actual:
49 ft.

EDR Historical Auto Stations:

Name:	ALLEN ROBT
Year:	1946
Type:	GASOLINE AND OIL SERVICE STATIONS
Name:	PAPPAS GUST
Year:	1946
Type:	GASOLINE AND OIL SERVICE STATIONS
Name:	HOPKINS EARL
Year:	1946
Type:	AUTOMOBILE REPAIRING
Name:	PAPPAS GUST
Year:	1951
Type:	GASOLINE STATIONS

F28
SSE
1/8-1/4
0.194 mi.
1023 ft.

PLANTS UNLIMITED
16450 KENT AVE
SAN LORENZO, CA 94580

Site 2 of 2 in cluster F

HIST CORTESE
LUST
Alameda County CS
HIST UST
SWEEPS UST

U001598560
N/A

Relative:
Higher

Actual:
48 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1182

LUST:

Region:	STATE
Global Id:	T0600101088
Latitude:	37.6918793
Longitude:	-122.1141755
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	1994-11-04 00:00:00
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	JS
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1182
LOC Case Number:	RO0001176
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 REG 2:

Region:	2
Facility Id:	01-1182
Facility Status:	Case Closed

PLANTS UNLIMITED (Continued) **U001598560**

Case Number: 3761
How Discovered: Tank Closure
Leak Cause: Structure Failure
Leak Source: Tank
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: 11/11/1992
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

Alameda County CS:
Status: Case Closed
Record Id: RO0001176
PE: 5602

HIST UST:
Region: STATE
Facility ID: 00000054831
Facility Type: Other
Other Type: NURSERY
Total Tanks: 0002
Contact Name: NANCY B. GOLDSTEIN
Telephone: 4152762384
Owner Name: PLANTS UNLIMITED
Owner Address: 16450 KENT AVE.
Owner City,St,Zip: SAN LORENZO, CA 94580

Tank Num: 001
Container Num: 1GAS
Year Installed: Not reported
Tank Capacity: 00000280
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor

SWEEPS UST:
Status: Not reported
Comp Number: 54831
Number: Not reported
Board Of Equalization: Not reported
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported

PLANTS UNLIMITED (Continued) **U001598560**

Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-054831-000001
Actv Date:	Not reported
Capacity:	280
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	2

Status:	Not reported
Comp Number:	54831
Number:	Not reported
Board Of Equalization:	Not reported
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	01-000-054831-000002
Actv Date:	Not reported
Capacity:	1
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

H29 **L&D SCAFFOLD INC** **LUST** **S108243767**
NNW **1420 162ND** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.205 mi.
1084 ft. **Site 1 of 2 in cluster H**

Relative:
Lower

Actual:
37 ft.

LUST:

Region:	STATE
Global Id:	T06019753917
Latitude:	37.697643
Longitude:	-122.116712
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	2002-03-27 00:00:00
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	EC
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
LOC Case Number:	RO0000425
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:

H30 **L&D SCAFFOLD INC** **Alameda County CS** **S104570019**
NNW **1420 162ND AVE** **HAZNET** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.205 mi.
1084 ft. **Site 2 of 2 in cluster H**

Relative:
Lower

Actual:
37 ft.

Alameda County CS:
Status: Case Closed
Record Id: RO0000425
PE: 5602

HAZNET:
Gepaid: CAC002117856
Contact: BETTY PUCKETT
Telephone: 5102769211
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1420 162ND AVE
Mailing City,St,Zip: SAN LEANDRO, CA 945780000
Gen County: 1
TSD EPA ID: CAD009466392
TSD County: 7
Waste Category: Other empty containers 30 gallons or more
Disposal Method: R01
Tons: 4.25
Facility County: 1

Gepaid: CAC002117856
Contact: BETTY PUCKETT
Telephone: 5102769211
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1420 162ND AVE
Mailing City,St,Zip: SAN LEANDRO, CA 945780000
Gen County: 1
TSD EPA ID: CAD099452708
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: R01
Tons: 1.4595
Facility County: 1

---

31 **GREENHOUSE PROJECT** **RCRA-SQG** **1000207907**
NNE **1511 163RD AVE** **FINDS** **CAD981420573**
1/8-1/4 **SAN LEANDRO, CA 94577**
0.222 mi.
1171 ft.

Relative:
Equal

Actual:
42 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: GREENHOUSE PROJECT
Facility address: 1511 163RD AVE
SAN LEANDRO, CA 94577
EPA ID: CAD981420573
Mailing address: 163RD AVE
SAN LEANDRO, CA 94577
Contact: Not reported
Contact address: Not reported
Not reported

GREENHOUSE PROJECT (Continued) **1000207907**

Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: JOHNATHAN GROUP
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
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: Unknown
Furnace exemption: Unknown
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
Off-site waste receiver: Verified to be non-commercial

Violation Status: No violations found

FINDS:

Registry ID: 110002699991

Environmental Interest/Information System

GREENHOUSE PROJECT (Continued) **1000207907**

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.

I32 **SUPREME LEATHER & RUG CO** **DRYCLEANERS** **S105266653**
SE **16549 E 14TH ST** **HAZNET** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.227 mi.
1199 ft. **Site 1 of 5 in cluster I**

Relative:
Higher

Actual:
50 ft.

DRYCLEANERS:

EPA Id:	CAL000339605
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7389
SIC Description:	Business Services, NEC (apparel pressing service for the trade)
Create Date:	1/9/2009 3:18:00 PM
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16549 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	945780000
Region Code:	2
Owner Name:	HYUN KIM
Owner Address:	575 BAYVIEW AVE
Owner Address 2:	Not reported
Owner Telephone:	4156472345
Contact Name:	HYUN KIM
Contact Address:	16549 E 14TH ST
Contact Address 2:	Not reported
Contact Telephone:	5103511212

EPA Id:	CAL000244662
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7212
SIC Description:	Garment Pressing, and Agents for Laundries and Drycleaners
Create Date:	1/22/2002
Facility Active:	No
Inactive Date:	6/30/2008
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16549 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	945780000
Region Code:	2
Owner Name:	YOUNG LEE
Owner Address:	16549 E 14TH ST
Owner Address 2:	Not reported
Owner Telephone:	5103511212

SUPREME LEATHER & RUG CO (Continued) **S105266653**

Contact Name: YOUNG LEE/OWNER
Contact Address: 16549 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5103511212

EPA Id: CAL000339605
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7212
SIC Description: Garment Pressing, and Agents for Laundries and Drycleaners
Create Date: 1/9/2009 3:18:00 PM
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16549 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA
Mailing Zip: 945780000
Region Code: 2
Owner Name: HYUN KIM
Owner Address: 575 BAYVIEW AVE
Owner Address 2: Not reported
Owner Telephone: 4156472345
Contact Name: HYUN KIM
Contact Address: 16549 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5103511212

EPA Id: CAL000244662
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7219
SIC Description: Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)
Create Date: 1/22/2002
Facility Active: No
Inactive Date: 6/30/2008
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16549 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA
Mailing Zip: 945780000
Region Code: 2
Owner Name: YOUNG LEE
Owner Address: 16549 E 14TH ST
Owner Address 2: Not reported
Owner Telephone: 5103511212
Contact Name: YOUNG LEE/OWNER
Contact Address: 16549 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5103511212

EPA Id: CAL000244662
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211

SUPREME LEATHER & RUG CO (Continued) **S105266653**

SIC Description: Power Laundries, Family and Commercial
Create Date: 1/22/2002
Facility Active: No
Inactive Date: 6/30/2008
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16549 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA
Mailing Zip: 945780000
Region Code: 2
Owner Name: YOUNG LEE
Owner Address: 16549 E 14TH ST
Owner Address 2: Not reported
Owner Telephone: 5103511212
Contact Name: YOUNG LEE/OWNER
Contact Address: 16549 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5103511212

EPA Id: CAL000244662
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7216
SIC Description: Drycleaning Plants, Except Rug Cleaning
Create Date: 1/22/2002
Facility Active: No
Inactive Date: 6/30/2008
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16549 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA
Mailing Zip: 945780000
Region Code: 2
Owner Name: YOUNG LEE
Owner Address: 16549 E 14TH ST
Owner Address 2: Not reported
Owner Telephone: 5103511212
Contact Name: YOUNG LEE/OWNER
Contact Address: 16549 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5103511212

EPA Id: CAL000339605
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7219
SIC Description: Laundry and Garment Services, NEC (except diaper service and clothing alteration and repair)
Create Date: 1/9/2009 3:18:00 PM
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16549 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA

SUPREME LEATHER & RUG CO (Continued) **S105266653**

Mailing Zip:	945780000
Region Code:	2
Owner Name:	HYUN KIM
Owner Address:	575 BAYVIEW AVE
Owner Address 2:	Not reported
Owner Telephone:	4156472345
Contact Name:	HYUN KIM
Contact Address:	16549 E 14TH ST
Contact Address 2:	Not reported
Contact Telephone:	5103511212

EPA Id:	CAL000339605
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	1/9/2009 3:18:00 PM
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16549 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	945780000
Region Code:	2
Owner Name:	HYUN KIM
Owner Address:	575 BAYVIEW AVE
Owner Address 2:	Not reported
Owner Telephone:	4156472345
Contact Name:	HYUN KIM
Contact Address:	16549 E 14TH ST
Contact Address 2:	Not reported
Contact Telephone:	5103511212

EPA Id:	CAL000244662
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7389
SIC Description:	Business Services, NEC (apparel pressing service for the trade)
Create Date:	1/22/2002
Facility Active:	No
Inactive Date:	6/30/2008
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16549 E 14TH ST
Mailing Address 2:	Not reported
Mailing State:	CA
Mailing Zip:	945780000
Region Code:	2
Owner Name:	YOUNG LEE
Owner Address:	16549 E 14TH ST
Owner Address 2:	Not reported
Owner Telephone:	5103511212
Contact Name:	YOUNG LEE/OWNER
Contact Address:	16549 E 14TH ST
Contact Address 2:	Not reported

SUPREME LEATHER & RUG CO (Continued) **S105266653**

Contact Telephone: 5103511212

EPA Id: CAL000339605
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7216
SIC Description: Drycleaning Plants, Except Rug Cleaning
Create Date: 1/9/2009 3:18:00 PM
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16549 E 14TH ST
Mailing Address 2: Not reported
Mailing State: CA
Mailing Zip: 945780000
Region Code: 2
Owner Name: HYUN KIM
Owner Address: 575 BAYVIEW AVE
Owner Address 2: Not reported
Owner Telephone: 4156472345
Contact Name: HYUN KIM
Contact Address: 16549 E 14TH ST
Contact Address 2: Not reported
Contact Telephone: 5103511212

HAZNET:
Gepaid: CAL000244662
Contact: YOUNG LEE/OWNER
Telephone: 5103511212
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16549 E 14TH ST
Mailing City,St,Zip: SAN LEANDRO, CA 945780000
Gen County: Alameda
TSD EPA ID: Not reported
TSD County: Contra Costa
Waste Category: Off-specification, aged or surplus organics
Disposal Method: H01
Tons: 0.66
Facility County: Not reported

Gepaid: CAL000244662
Contact: YOUNG LEE/OWNER
Telephone: 5103511212
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 16549 E 14TH ST
Mailing City,St,Zip: SAN LEANDRO, CA 945780000
Gen County: Alameda
TSD EPA ID: Not reported
TSD County: Contra Costa
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: Not reported
Tons: 0.00
Facility County: Not reported

SUPREME LEATHER & RUG CO (Continued) **S105266653**

Gepaid:	CAL000244662
Contact:	YOUNG LEE/OWNER
Telephone:	5103511212
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16549 E 14TH ST
Mailing City,St,Zip:	SAN LEANDRO, CA 945780000
Gen County:	Alameda
TSD EPA ID:	Not reported
TSD County:	Contra Costa
Waste Category:	Solids or sludges with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Not reported
Tons:	Not reported
Facility County:	Not reported

Gepaid:	CAL000244662
Contact:	YOUNG LEE/OWNER
Telephone:	5103511212
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16549 E 14TH ST
Mailing City,St,Zip:	SAN LEANDRO, CA 945780000
Gen County:	Alameda
TSD EPA ID:	CAD980887418
TSD County:	Alameda
Waste Category:	Waste oil and mixed oil
Disposal Method:	DISCHARGE TO SEWER/POTW OR NPDES(WITH PRIOR STORAGE--WITH OR WITHOUT TREATMENT)
Tons:	0.057
Facility County:	Alameda

Gepaid:	CAL000244662
Contact:	YOUNG LEE/OWNER
Telephone:	5103511212
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16549 E 14TH ST
Mailing City,St,Zip:	SAN LEANDRO, CA 945780000
Gen County:	Alameda
TSD EPA ID:	CAT080014079
TSD County:	Alameda
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Not reported
Tons:	Not reported
Facility County:	1

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

I33
ESE
1/8-1/4
0.232 mi.
1223 ft.

E. 14TH STREET AUTO WRECKERS
16552 E. 14TH STREET
SAN LEANDRO, CA 94578

Site 2 of 5 in cluster I

CERC-NFRAP
UST

1003877940
CAD983566472

Relative:
Higher

Actual:
50 ft.

CERC-NFRAP:
Site ID: 0900008
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13054866.00000
Person ID: 9271184.00000

Contact Sequence ID: 13060936.00000
Person ID: 9270048.00000

Contact Sequence ID: 13091675.00000
Person ID: 13002167.00000

Contact Sequence ID: 13149907.00000
Person ID: 9270438.00000

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/05/1990
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 01/13/1992
Priority Level: Higher priority for further assessment

Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 03/16/1992
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 03/16/1992
Priority Level: Not reported

ALAMEDA CO. UST:
Facility ID: FA0303708
Program Element: 4103
Facility Status: Active
Description: UST - 3
Inspection Date: 6/2/2010
Closed: Not reported
Owner Name: GURJINDER SOHAL

I34 **FACILITY 01-000-502126** **UST** **U004048912**
ESE **16552 E. 14TH ST.** **N/A**
1/8-1/4 **SAN LEANDRO, CA 94578**
0.232 mi.
1223 ft. **Site 3 of 5 in cluster I**

Relative:
Higher

Actual:
50 ft.

UST:
Facility ID: 928
Latitude: 37.69328
Longitude: -122.1113

I35 **EAST 14TH STREET AUTOWRECKERS** **ENVIROSTOR** **S102008278**
ESE **16552 EAST 14TH ST** **N/A**
1/8-1/4 **ASHLAND, CA 94578**
0.232 mi.
1223 ft. **Site 4 of 5 in cluster I**

Relative:
Higher

Actual:
50 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Facility ID: 1990010
Site Code: Not reported
Assembly: 18
Senate: 10
Special Program: Not reported
Status: No Further Action
Status Date: 5/12/1995
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.6933088623679
Longitude: -122.110791020994
APN: 80-76-32
Past Use: JUNKYARD
Potential COC: 10199, 20019, 30013
Confirmed COC: NONE SPECIFIED
Potential Description: UE
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

EAST 14TH STREET AUTOWRECKERS (Continued) **S102008278**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

I36 **EAST 14TH STREET AUTO WRECKERS** **ENVIROSTOR** **S102008261**
ESE **16552 EAST 14TH STREET** **N/A**
1/8-1/4 **ASHLAND, CA 94541**
0.233 mi.
1231 ft. **Site 5 of 5 in cluster I**

Relative:
Higher

Actual:
50 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 1750016
Site Code: Not reported
Assembly: 18
Senate: 10
Special Program: Not reported
Status: Refer: Other Agency
Status Date: 1/5/1996
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 37.693312388913498
Longitude: -122.110719680786
APN: 80-76-32
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: Not reported
Alias Type: Not reported

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

37
WNW
1/8-1/4
0.243 mi.
1283 ft.

OKADA PROPERTY
16109 ASHLAND
SAN LEANDRO, CA 94580

HIST CORTESE **S102434618**
LUST **N/A**
Alameda County CS

Relative:
Lower

Actual:
34 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1088

LUST:

Region:	STATE
Global Id:	T0600101004
Latitude:	37.69641
Longitude:	-122.1179
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	1994-12-28 00:00:00
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	EC
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1088
LOC Case Number:	RO0000536
File Location:	Stored electronically as an E-file
Potential Media Affect:	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:

LUST REG 2:

Region:	2
Facility Id:	01-1088
Facility Status:	Case Closed
Case Number:	3815
How Discovered:	Tank Closure
Leak Cause:	Structure Failure
Leak Source:	Tank
Date Leak Confirmed:	3/23/1992
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	8/31/1989
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

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000536
PE:	5602

J38 **SEE THE DOCTOR TRANSMISSION** **SLIC** **S108246076**
SE **16611 14TH** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.273 mi.
1443 ft. **Site 1 of 2 in cluster J**

Relative:
Higher

Actual:
50 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	2003-05-23 00:00:00
Global Id:	T06019729289
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002572
Latitude:	37.692413
Longitude:	-122.111033
Case Type:	Cleanup Program Site
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
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:

J39 **SEE THE DOCTOR TRANSMISSION** **Alameda County CS** **S106880556**
SE **16611 E 14TH ST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.277 mi.
1460 ft. **Site 2 of 2 in cluster J**

Relative:
Higher

Actual:
50 ft.

Alameda County CS:

Status:	Pollution Characterization
Record Id:	RO0002572
PE:	5502

---

40 **MARY PETSAS** **HIST CORTESE** **S103472415**
NW **16035 14TH** **LUST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578** **Alameda County CS**
0.317 mi. **HAZNET**
1674 ft.

Relative:
Lower

Actual:
34 ft.

CORTESE:

Region:	CORTESE
Facility County Code:	1
Reg By:	LTNKA
Reg Id:	01-1164

LUST:

Region:	STATE
Global Id:	T0600101073
Latitude:	37.697965
Longitude:	-122.118609
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	1998-07-13 00:00:00
Lead Agency:	ALAMEDA COUNTY LOP

MARY PETSAS (Continued) **S103472415**

Case Worker:	SOS
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1164
LOC Case Number:	RO0000786
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 REG 2:

Region:	2
Facility Id:	01-1164
Facility Status:	Case Closed
Case Number:	4147
How Discovered:	Tank Closure
Leak Cause:	Corrosion
Leak Source:	Tank
Date Leak Confirmed:	4/2/1993
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

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000786
PE:	5602

HAZNET:

Gepaid:	CAC001215824
Contact:	MARY PERSAS
Telephone:	5102762828
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	16518 TOLEADO ST
Mailing City,St,Zip:	SAN LEANDRO, CA 945780000
Gen County:	1
TSD EPA ID:	CAD009466392
TSD County:	7
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	R01
Tons:	.1250
Facility County:	1

K41 **HANK'S AUTOMOTIVE SERVICE** **SLIC** **S108245992**
NNW **16065 MATEO** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.324 mi.
1710 ft. **Site 1 of 2 in cluster K**

Relative:
Lower

Actual:
37 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	1992-11-19 00:00:00
Global Id:	T06019756277
Lead Agency:	ALAMEDA COUNTY LOP
Lead Agency Case Number:	RO0002826
Latitude:	37.699525
Longitude:	-122.116682
Case Type:	Cleanup Program Site
Case Worker:	MD
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	NA
File Location:	Stored electronically as an E-file
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

K42 **HANK'S AUTOMOTIVE SERVICE** **Alameda County CS** **U001598535**
NNW **16065 MATEO ST** **HIST UST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.324 mi.
1710 ft. **Site 2 of 2 in cluster K**

Relative:
Lower

Actual:
37 ft.

Alameda County CS:

Status:	Preliminary site assessment workplan submitted
Record Id:	RO0002826
PE:	5502

Status:	Leak being confirmed
Record Id:	RO0002826
PE:	5502

HIST UST:

Region:	STATE
Facility ID:	00000002844
Facility Type:	Other
Other Type:	TOW SERVICE
Total Tanks:	0001
Contact Name:	HANK
Telephone:	4153573880
Owner Name:	HANK'S AUTOMOTIVE SERVICE, INC
Owner Address:	16065 MATEO ST
Owner City,St,Zip:	SAN LEANDRO, CA 94578

Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR

HANK'S AUTOMOTIVE SERVICE (Continued) **U001598535**

Tank Construction: Not reported
Leak Detection: Stock Inventor

L43 **AGP, INC** **Alameda County CS** **S106087082**
SE **16690 E 14TH ST** **HAZNET** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.324 mi.
1712 ft. **Site 1 of 2 in cluster L**

Relative:
Higher

Actual:
51 ft.

Alameda County CS:
Status: Leak being confirmed
Record Id: RO0002997
PE: 5602

HAZNET:
Gepaid: CAC002551608
Contact: CARLA LOMBATO
Telephone: 4082430707
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 986 MARKET ST
Mailing City,St,Zip: SANTA CLARITA, CA 95050
Gen County: Alameda
TSD EPA ID: Not reported
TSD County: San Mateo
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: R01
Tons: Not reported
Facility County: Not reported

L44 **167TH GAS STATION** **LUST** **S109604500**
SE **16690 E. 14TH STREET** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.324 mi.
1712 ft. **Site 2 of 2 in cluster L**

Relative:
Higher

Actual:
51 ft.

LUST:
Region: STATE
Global Id: T10000001069
Latitude: 37.692531
Longitude: -122.109744
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 1994-04-08 00:00:00
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: PK
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: NA
LOC Case Number: RO0002997
File Location: Stored electronically as an E-file
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Not reported
Site History: The subject property was formerly occupied by a Texaco station, addressed as 16660 East 14th Street, from 1966 until 1985 when the two10,000-gallon, and one 6,000-gallon fuel USTs and the 550-gallon waste oil UST were removed. Due to the former presence of USTs

167TH GAS STATION (Continued) **S109604500**

onsite, a subsurface investigation was performed at the subject property in 1994 by Environmental Bio-Systems, Inc. The investigation included four soil borings advanced to a maximum depth of 20 feet below ground surface (bgs). Soil sample analytical results identified concentrations of Total Petroleum Hydrocarbons as motor oil (TPH-mo). MTBE analysis and groundwater sampling have not been conducted.

Click here to access the California GeoTracker records for this facility:

M45 **ABANDONED WELL** **Alameda County CS** **S105087313**
North **1619 162ND AVE** **HAZNET** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.354 mi.
1869 ft. **Site 1 of 3 in cluster M**

Relative:
Higher

Actual:
43 ft.

Alameda County CS:
Status: Case Closed
Record Id: RO0002698
PE: 5502

HAZNET:
Gepaid: CAC002294193
Contact: IN LENG LEE & SIMON HUEN
Telephone: 9258209391
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1619 162ND AVENUE
Mailing City,St,Zip: SAN LEANDRO, CA 945780000
Gen County: 1
TSD EPA ID: CAL000161743
TSD County: Santa Clara
Waste Category: Unspecified oil-containing waste
Disposal Method: R01
Tons: 2.0850
Facility County: 1

M46 **ABANDONED WELL** **SLIC** **S108245891**
North **1619 162ND** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578**
0.354 mi.
1869 ft. **Site 2 of 3 in cluster M**

Relative:
Higher

Actual:
43 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 2000-07-28 00:00:00
Global Id: T06019763859
Lead Agency: ALAMEDA COUNTY LOP
Lead Agency Case Number: RO0002698
Latitude: 37.700286
Longitude: -122.114144
Case Type: Cleanup Program Site
Case Worker: SOS
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: NA

ABANDONED WELL (Continued) **S108245891**

File Location: Stored electronically as an E-file
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

M47 **HIROS NURSERY INC** **HIST CORTESE** **S101293878**
North **1630 162ND** **LUST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578** **Alameda County CS**
0.365 mi. **SWEEPS UST**
1927 ft. **Site 3 of 3 in cluster M**

Relative:
Higher

Actual:
47 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1436

LUST:
Region: STATE
Global Id: T0600101325
Latitude: 37.700006
Longitude: -122.11228
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 1998-06-18 00:00:00
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: PE
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-1436
LOC Case Number: RO0000812
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 REG 2:
Region: 2
Facility Id: 01-1436
Facility Status: Case Closed
Case Number: 1361
How Discovered: Tank Closure
Leak Cause: UNK
Leak Source: Tank
Date Leak Confirmed: 6/17/1993
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

HIROS NURSERY INC (Continued) **S101293878**

Alameda County CS:
Status: Case Closed
Record Id: RO0000812
PE: 5602

SWEEPS UST:
Status: Not reported
Comp Number: 56351
Number: Not reported
Board Of Equalization: 44-034510
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 01-000-056351-000001
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

---

48 **ABC AUTO REPAIR** **HIST CORTESE** **S104396782**
NW **15960 14TH** **LUST** **N/A**
1/4-1/2 **SAN LEANDRO, CA 94578** **Alameda County CS**
0.391 mi.
2062 ft.

Relative:
Lower

Actual:
34 ft.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-0178

LUST:
Region: STATE
Global Id: T0600100165
Latitude: 37.6993639
Longitude: -122.1202138
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 1994-11-21 00:00:00
Lead Agency: ALAMEDA COUNTY LOP
Case Worker: SOS
Local Agency: ALAMEDA COUNTY LOP
RB Case Number: 01-0178
LOC Case Number: RO0000921
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:

ABC AUTO REPAIR (Continued) **S104396782**

LUST REG 2:

Region:	2
Facility Id:	01-0178
Facility Status:	Case Closed
Case Number:	4394
How Discovered:	Tank Closure
Leak Cause:	Corrosion
Leak Source:	Tank
Date Leak Confirmed:	1/22/1993
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

Alameda County CS:

Status:	Case Closed
Record Id:	RO0000921
PE:	5602

N49 **CALIFORNIA NATIONAL GUARD FACILITY** **LUST** **S102509587**
SSW **16501 ASHLAND** **Alameda County CS** **N/A**
1/4-1/2 **SAN LORENZO, CA 94580**
0.442 mi.
2335 ft. **Site 1 of 2 in cluster N**

Relative:
Lower

Actual:
39 ft.

LUST:

Region:	STATE
Global Id:	T0600101009
Latitude:	37.6890803
Longitude:	-122.1190265
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	1997-10-03 00:00:00
Lead Agency:	ALAMEDA COUNTY LOP
Case Worker:	AL
Local Agency:	ALAMEDA COUNTY LOP
RB Case Number:	01-1095
LOC Case Number:	RO0000641
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 REG 2:

Region:	2
Facility Id:	01-1095
Facility Status:	Case Closed
Case Number:	2690
How Discovered:	OM
Leak Cause:	Corrosion
Leak Source:	Piping

CALIFORNIA NATIONAL GUARD FACILITY (Continued) **S102509587**

Date Leak Confirmed: 10/8/1992
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

Alameda County CS:
Status: Case Closed
Record Id: RO0000641
PE: 5602

N50 **OMS #35** **RCRA-SQG** **1000100277**
SSW **16501 ASHLAND AVE** **FINDS** **CAD981369085**
1/4-1/2 **SAN LORENZO, CA 94580** **HIST CORTESE**
0.442 mi. **HAZNET**
2335 ft. **Site 2 of 2 in cluster N**

Relative:
Lower

Actual:
39 ft.

RCRA-SQG:
Date form received by agency: 01/23/1986
Facility name: OMS #35
Facility address: 16501 ASHLAND AVE
SAN LORENZO, CA 94580
EPA ID: CAD981369085
Mailing address: ASHLAND AVE
SAN LORENZO, CA 94580
Contact: ENVIRONMENTAL MANAGER
Contact address: 16501 ASHLAND AVE
SAN LORENZO, CA 94580
Contact country: US
Contact telephone: (916) 920-6505
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CALIFORNIA ARMY NATL GUARD
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported

OMS #35 (Continued) **1000100277**

Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
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): Unknown
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
Off-site waste receiver: Verified to be non-commercial

Violation Status: No violations found

FINDS:

Registry ID: 110002683016

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

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.

CORTESE:
Region: CORTESE
Facility County Code: 1
Reg By: LTNKA
Reg Id: 01-1095

HAZNET:
Gepaid: CAD981369085
Contact: DAN AGUIRRE AHMS
Telephone: 9168543691
Facility Addr2: Not reported
Mailing Name: Not reported

OMS #35 (Continued) **1000100277**

Mailing Address: 9800 GOETHE RD
Mailing City,St,Zip: SACRAMENTO, CA 958273563
Gen County: Alameda
TSD EPA ID: Not reported
TSD County: Los Angeles
Waste Category: Other inorganic solid waste
Disposal Method: T01
Tons: 0.10
Facility County: Not reported

Gepaid: CAD981369085
Contact: DAN AGUIRRE AHMS
Telephone: 9168543691
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 9800 GOETHE RD
Mailing City,St,Zip: SACRAMENTO, CA 958273563
Gen County: Alameda
TSD EPA ID: Not reported
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Tons: 0.08
Facility County: Not reported

Gepaid: CAD981369085
Contact: DAN AGUIRRE AHMS
Telephone: 9168543691
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 9800 GOETHE RD
Mailing City,St,Zip: SACRAMENTO, CA 958273563
Gen County: Alameda
TSD EPA ID: Not reported
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: H01
Tons: 0.04
Facility County: Not reported

Gepaid: CAD981369085
Contact: DAN AGUIRRE AHMS
Telephone: 9168543691
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 9800 GOETHE RD
Mailing City,St,Zip: SACRAMENTO, CA 958273563
Gen County: Alameda
TSD EPA ID: Not reported
TSD County: Los Angeles
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Not reported
Tons: 0.15
Facility County: Not reported

Gepaid: CAD981369085
Contact: DAN AGUIRRE AHMS

OMS #35 (Continued) **1000100277**

Telephone:	9168543691
Facility Addr2:	Not reported
Mailing Name:	Not reported
Mailing Address:	9800 GOETHE RD
Mailing City,St,Zip:	SACRAMENTO, CA 958273563
Gen County:	Alameda
TSD EPA ID:	Not reported
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	T01
Tons:	0.14
Facility County:	Not reported

Click this hyperlink while viewing on your computer to access
80 additional CA_HAZNET: record(s) in the EDR Site Report.

51
East
1/4-1/2
0.444 mi.
2347 ft.

J C HAULING AND RECYCLING **SWRCY** **S110326806**
1560 167TH AVE **N/A**
SAN LEANDRO, CA 94578

Relative:
Higher

Actual:
57 ft.

SWRCY:

Facility Phone Number:	Not reported
Whether The Facility Is Grandfathered:	N
Effective Date:	04/20/2010
Rural:	N
As Of:	11/17/2010
Party Number:	53702

52
NW
1/2-1
0.532 mi.
2811 ft.

UNOCAL SERVICE STATION #6277 **Notify 65** **S100178990**
15803 EAST 14TH STREET **N/A**
SAN LEANDRO, CA 92584

Relative:
Lower

Actual:
33 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92584

53
WSW
1/2-1
0.865 mi.
4565 ft.

FOUR STAR LUMBER CO **Notify 65** **S100179438**
15444 HESPERIAN BOULEVARD **N/A**
SAN LEANDRO, CA 92584

Relative:
Lower

Actual:
41 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported

FOUR STAR LUMBER CO (Continued) **S100179438**

Discharge Date: Not reported
Incident Description: 92584

54
WNW
1/2-1
0.942 mi.
4973 ft.

USA PETROLEUM **Notify 65** **U000056654**
15120 HEPERIAN BOULEVARD **N/A**
SAN LEANDRO, CA 92584

Relative:
Lower

Actual:
34 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92584

Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ALAMEDA	S110735780	ROUTE 238 CORRIDOR IMPROVEMENT PRO	FOOTHILL AND MISSION BLVD	94541	NPDES
HAYWARD	1003879390	EDEN ROCK PROPS	3146, 3167 & 3191 CORPORATE PL	94541	CERC-NFRAP
HAYWARD	1003879275	ARDEN ROAD PROPERTY	ARDEN RD	94541	CERC-NFRAP
HAYWARD	1003878524	BAY CITIES RUBBISH DSPL CO	FOOT OF W WINTON AVE	94541	CERC-NFRAP
HAYWARD	S109465079	WEST A STREET REALIGNMENT PROJECT	HESPERIAN BLVD TO GOLF COURSE	94541	NPDES
SAN LEANDRO	1003878920	PG&E GAS PLANT SAN LEANDRO	ALVARDO & ST JOHNS STS	94578	CERC-NFRAP
SAN LORENZO	S109447436	KENT GARDENS SENIOR HOUSING	16438 TO 16450 KENT AVE	94580	NPDES

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: 12/31/2010
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
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: 12/31/2010
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
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: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
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: 12/31/2010
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 15

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
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: 11/30/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 57

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
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 EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010
Date Data Arrived at EDR: 01/11/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/15/2011
Next Scheduled EDR Contact: 07/25/2011
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: 10/28/2010
Date Data Arrived at EDR: 12/01/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 86

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
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: 05/25/2010
Date Data Arrived at EDR: 06/02/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 124

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 01/05/2011
Date Data Arrived at EDR: 01/14/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 01/05/2011
Date Data Arrived at EDR: 01/14/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 12/31/2010
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/07/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
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: 02/07/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
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: 02/22/2011
Date Data Arrived at EDR: 02/22/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 28

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

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: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
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: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
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: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

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: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
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: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
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: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
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: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 02/14/2011
Next Scheduled EDR Contact: 02/28/2011
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: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 02/07/2011
Next Scheduled EDR Contact: 05/23/2011
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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 09/01/2010
Date Data Arrived at EDR: 11/05/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 84

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/04/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 08/27/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 02/16/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Semi-Annually

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: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009
Date Data Arrived at EDR: 05/04/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/04/2010
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

State and tribal registered storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/07/2011
Number of Days to Update: 31

Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
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: 916-341-5712
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/04/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 11/01/2010
Date Data Arrived at EDR: 12/02/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 57

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 45

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/11/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 60

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 08/27/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 02/16/2011
Next Scheduled EDR Contact: 05/16/2011
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: 09/01/2010
Date Data Arrived at EDR: 11/05/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 84

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/16/2011
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: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
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: 02/07/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
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: 09/01/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 12/29/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
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: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
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: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 36

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 02/22/2011
Date Data Arrived at EDR: 02/22/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 30

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
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: 02/08/2011
Next Scheduled EDR Contact: 05/23/2011
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: 12/03/2010
Date Data Arrived at EDR: 12/30/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 48

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/08/2011
Next Scheduled EDR Contact: 06/20/2011
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: 02/07/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/17/2011
Next Scheduled EDR Contact: 05/23/2011
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: 12/31/2010
Date Data Arrived at EDR: 03/04/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
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: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
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: 11/09/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 92
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
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: 12/08/2010
Date Data Arrived at EDR: 12/09/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 47
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 05/02/2011
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: 12/14/2010
Date Data Arrived at EDR: 12/14/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
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: 12/31/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 51

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 12/31/2009
Date Data Arrived at EDR: 07/21/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 30

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 32

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
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: 02/03/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 03/08/2011
Number of Days to Update: 32

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: 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: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 10/13/2010
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/11/2011
Next Scheduled EDR Contact: 05/23/2011
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: 703-692-8801
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
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: 03/15/2011
Next Scheduled EDR Contact: 06/27/2011
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: 10/01/2010
Date Data Arrived at EDR: 10/29/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 91

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/25/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 5

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/16/2011
Next Scheduled EDR Contact: 06/27/2011
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: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 03/04/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

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: 08/04/2010
Date Data Arrived at EDR: 09/09/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/09/2011
Next Scheduled EDR Contact: 06/20/2011
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: 12/17/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 94

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
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: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
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: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
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: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
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: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: Annually

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: 03/18/2010
Date Data Arrived at EDR: 04/06/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 01/11/2011
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
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: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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

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: 12/31/2007
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 05/12/2010
Number of Days to Update: 76

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/01/2011
Next Scheduled EDR Contact: 06/13/2011
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

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: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Quarterly

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/22/2011
Date Data Arrived at EDR: 02/22/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Quarterly

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). This listing is no longer updated by the state agency.

Date of Government Version: 01/04/2011
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 20

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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].

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: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
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: 09/15/2010
Date Data Arrived at EDR: 09/16/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 13

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 06/27/2011
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: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 12/31/2009
Date Data Arrived at EDR: 07/07/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 36

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/19/2011
Next Scheduled EDR Contact: 05/02/2011
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: 04/01/2011
Next Scheduled EDR Contact: 07/11/2011
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: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
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: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 05/09/2011
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 11/17/2010
Date Data Arrived at EDR: 12/23/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 36
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
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: 12/09/2010
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 39
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 01/18/2011
Next Scheduled EDR Contact: 05/02/2011
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: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
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: 01/17/2011
Date Data Arrived at EDR: 01/18/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 10
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/18/2011
Next Scheduled EDR Contact: 05/02/2011
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: 08/09/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 9
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/04/2011
Next Scheduled EDR Contact: 06/13/2011
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: 09/27/2010
Date Data Arrived at EDR: 09/28/2010
Date Made Active in Reports: 10/18/2010
Number of Days to Update: 20

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/06/2011
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: 02/04/2011
Next Scheduled EDR Contact: 05/16/2011
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: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/04/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: 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 Historical Auto Stations: EDR Proprietary 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.

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 Historical Cleaners: EDR Proprietary 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.

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

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: 01/06/2011
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 18

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/06/2011
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 13

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 03/10/2011
Date Data Arrived at EDR: 03/11/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 13

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Semi-Annually

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: 01/14/2011
Date Data Arrived at EDR: 01/18/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 10

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
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: 03/17/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

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: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/30/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/24/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/24/2011
Next Scheduled EDR Contact: 05/09/2011
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: 02/18/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/09/2011
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/25/2010
Next Scheduled EDR Contact: 05/09/2011
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 23
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/24/2011
Next Scheduled EDR Contact: 05/06/2011
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: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/18/2011
Date Data Arrived at EDR: 01/25/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 37
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 01/14/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/20/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
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: 07/09/2008
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 22

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
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: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: No Update Planned

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/17/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 33

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/17/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 33
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/15/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 16
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/15/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31
Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
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: 12/08/2010
Date Data Arrived at EDR: 12/09/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 50
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 12/08/2010
Date Data Arrived at EDR: 12/09/2010
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 42
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
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: 11/03/2010
Date Data Arrived at EDR: 01/20/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 8
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
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: 11/03/2010
Date Data Arrived at EDR: 01/20/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 8

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
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: 03/10/2011
Date Data Arrived at EDR: 03/11/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 13

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/14/2011
Next Scheduled EDR Contact: 05/30/2011
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: 09/09/2010
Date Data Arrived at EDR: 09/15/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 14

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 70

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/31/2011
Next Scheduled EDR Contact: 05/16/2011
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: 12/21/2010
Next Scheduled EDR Contact: 03/28/2011
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: 02/28/2011
Next Scheduled EDR Contact: 05/30/2011
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: 02/28/2011
Next Scheduled EDR Contact: 05/30/2011
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: 12/29/2010
Date Data Arrived at EDR: 01/04/2011
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 16
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/17/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
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: 02/14/2011
Date Data Arrived at EDR: 02/17/2011
Date Made Active in Reports: 04/01/2011
Number of Days to Update: 43
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/17/2010
Date Data Arrived at EDR: 12/20/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 39
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

SANTA CLARA COUNTY:

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: 05/29/2009
Date Data Arrived at EDR: 06/01/2009
Date Made Active in Reports: 06/15/2009
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/31/2009
Date Data Arrived at EDR: 08/31/2009
Date Made Active in Reports: 09/18/2009
Number of Days to Update: 18

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 03/15/2011
Next Scheduled EDR Contact: 05/30/2011
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/30/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
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: 12/08/2010
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 42

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 12/08/2010
Date Data Arrived at EDR: 12/29/2010
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 22

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/05/2011
Date Data Arrived at EDR: 01/07/2011
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/14/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 9

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/14/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Semi-Annually

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: 01/26/2011
Date Data Arrived at EDR: 02/25/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 25

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
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: 08/01/2009
Date Data Arrived at EDR: 10/05/2009
Date Made Active in Reports: 10/13/2009
Number of Days to Update: 8

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/07/2011
Next Scheduled EDR Contact: 07/25/2011
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: 02/22/2011
Next Scheduled EDR Contact: 06/06/2011
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: 11/29/2010
Date Data Arrived at EDR: 12/20/2010
Date Made Active in Reports: 01/20/2011
Number of Days to Update: 31

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 01/25/2011
Date Data Arrived at EDR: 02/03/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 29

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Annually

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: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/25/2011
Next Scheduled EDR Contact: 06/06/2011
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/21/2011
Next Scheduled EDR Contact: 05/02/2011
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: 12/31/2010
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/09/2011
Next Scheduled EDR Contact: 05/23/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/06/2011
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 38

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/28/2011
Next Scheduled EDR Contact: 06/13/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
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 & 2009 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

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ASHLAND HOUSING PROJECT
16309 KENT AVENUE
SAN LORENZO, CA 94580

TARGET PROPERTY COORDINATES

Latitude (North):	37.69500 - 37° 41' 42.0''
Longitude (West):	122.1149 - 122° 6' 53.6''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	578032.9
UTM Y (Meters):	4172139.2
Elevation:	42 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	37122-F1 HAYWARD, CA
Most Recent Revision:	1980
West Map:	37122-F2 SAN LEANDRO, CA
Most Recent Revision:	1980

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 principle 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).

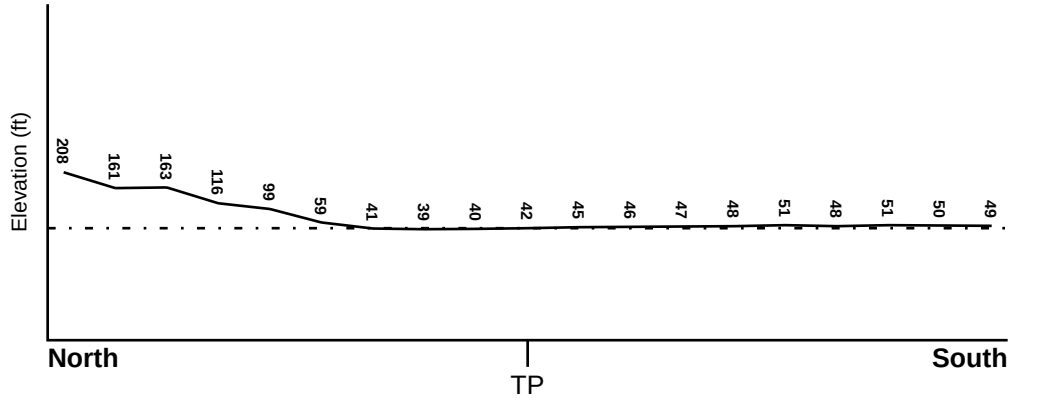
TOPOGRAPHIC INFORMATION

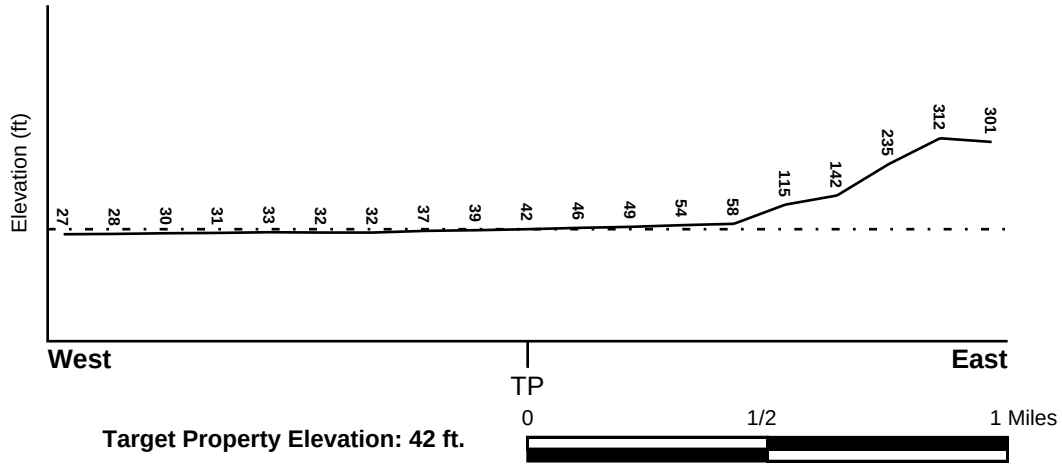
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 42 ft.

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
ALAMEDA, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06001C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
HAYWARD	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
Status: Not found

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
A1	0 - 1/8 Mile NNE	SW
A2	0 - 1/8 Mile NNE	SE
A3	0 - 1/8 Mile NNW	SW
B4	1/8 - 1/4 Mile NW	NE, NW
B5	1/8 - 1/4 Mile NW	NE, NW
6	1/8 - 1/4 Mile WNW	W
C7	1/4 - 1/2 Mile NW	NW
9	1/4 - 1/2 Mile NNE	W
10	1/4 - 1/2 Mile NW	NW

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
D11	1/4 - 1/2 Mile SSW	E
D12	1/4 - 1/2 Mile SSW	E
D13	1/4 - 1/2 Mile SSW	E
E15	1/2 - 1 Mile SW	SW
E16	1/2 - 1 Mile SW	SW
E17	1/2 - 1 Mile SW	NW
E20	1/2 - 1 Mile SW	SW
G22	1/2 - 1 Mile WSW	W
G23	1/2 - 1 Mile WSW	W
H24	1/2 - 1 Mile South	SSE
H25	1/2 - 1 Mile South	SSE
26	1/2 - 1 Mile NNW	NW
I27	1/2 - 1 Mile WSW	SW
I28	1/2 - 1 Mile WSW	SW
29	1/2 - 1 Mile SE	NW

For additional site information, refer to Physical Setting Source Map Findings.

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

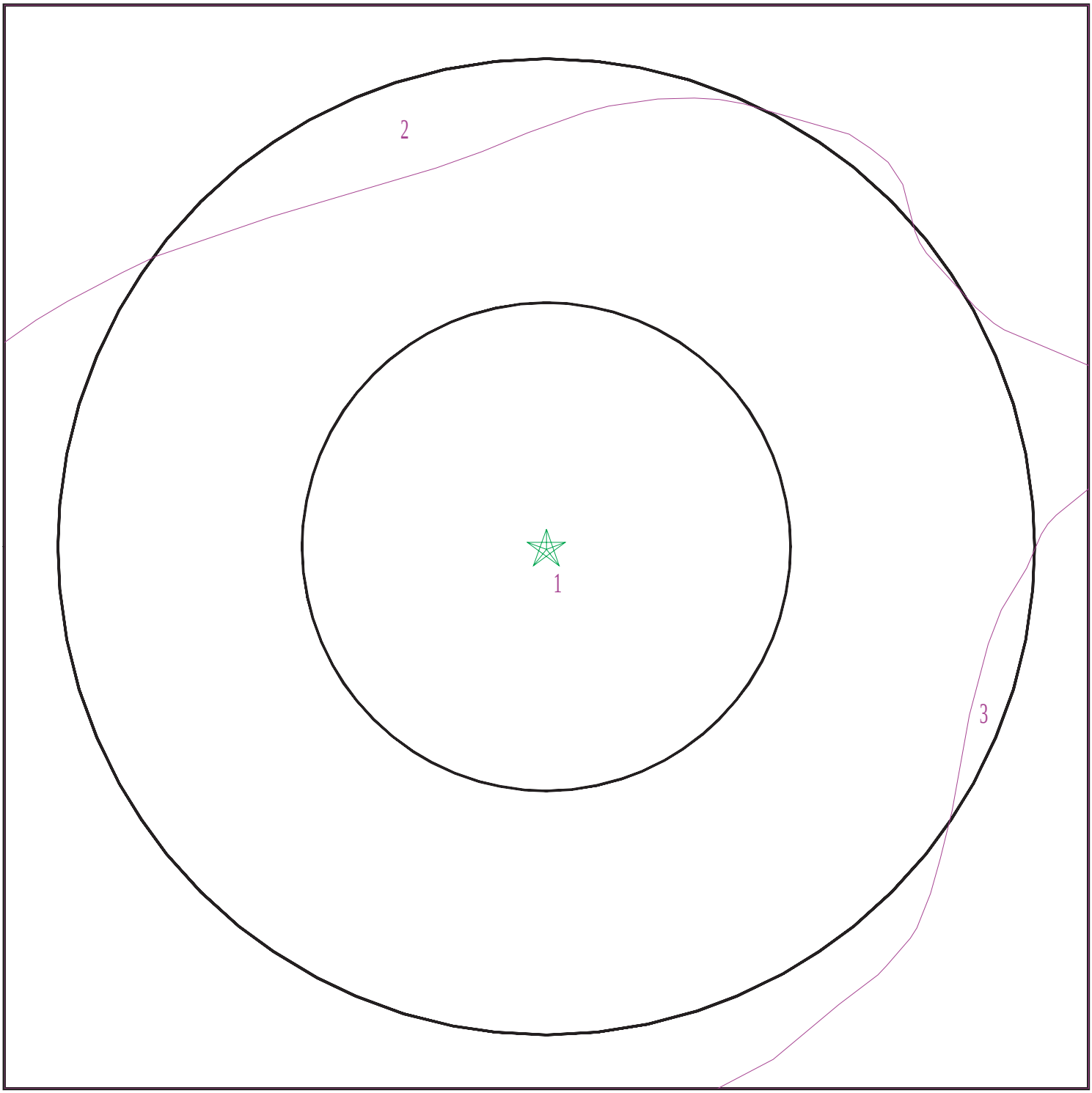
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

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).

SSURGO SOIL MAP - 3045045.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Ashland Housing Project	CLIENT:	RGA Environmental
ADDRESS:	16309 Kent Avenue San Lorenzo CA 94580	CONTACT:	Belinda Blackie
LAT/LONG:	37.6950 / 122.1149	INQUIRY #:	3045045.2s
		DATE:	April 18, 2011 6:45 pm

Copyright © 2011 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Danville

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty 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: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	20 inches	53 inches	silty clay	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: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	53 inches	79 inches	silty 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: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 2

Soil Component Name: Clear Lake

Soil Surface Texture: clay

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: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	25 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
2	25 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

Soil Map ID: 3

Soil Component Name: Yolo

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt 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: 14 Min: 4	Max: 8.4 Min: 6.1
2	7 inches	59 inches	silt 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: 14 Min: 4	Max: 8.4 Min: 6.1

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
14	USGS3235823	1/2 - 1 Mile SW
F18	USGS3235996	1/2 - 1 Mile SSE
21	USGS3235995	1/2 - 1 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

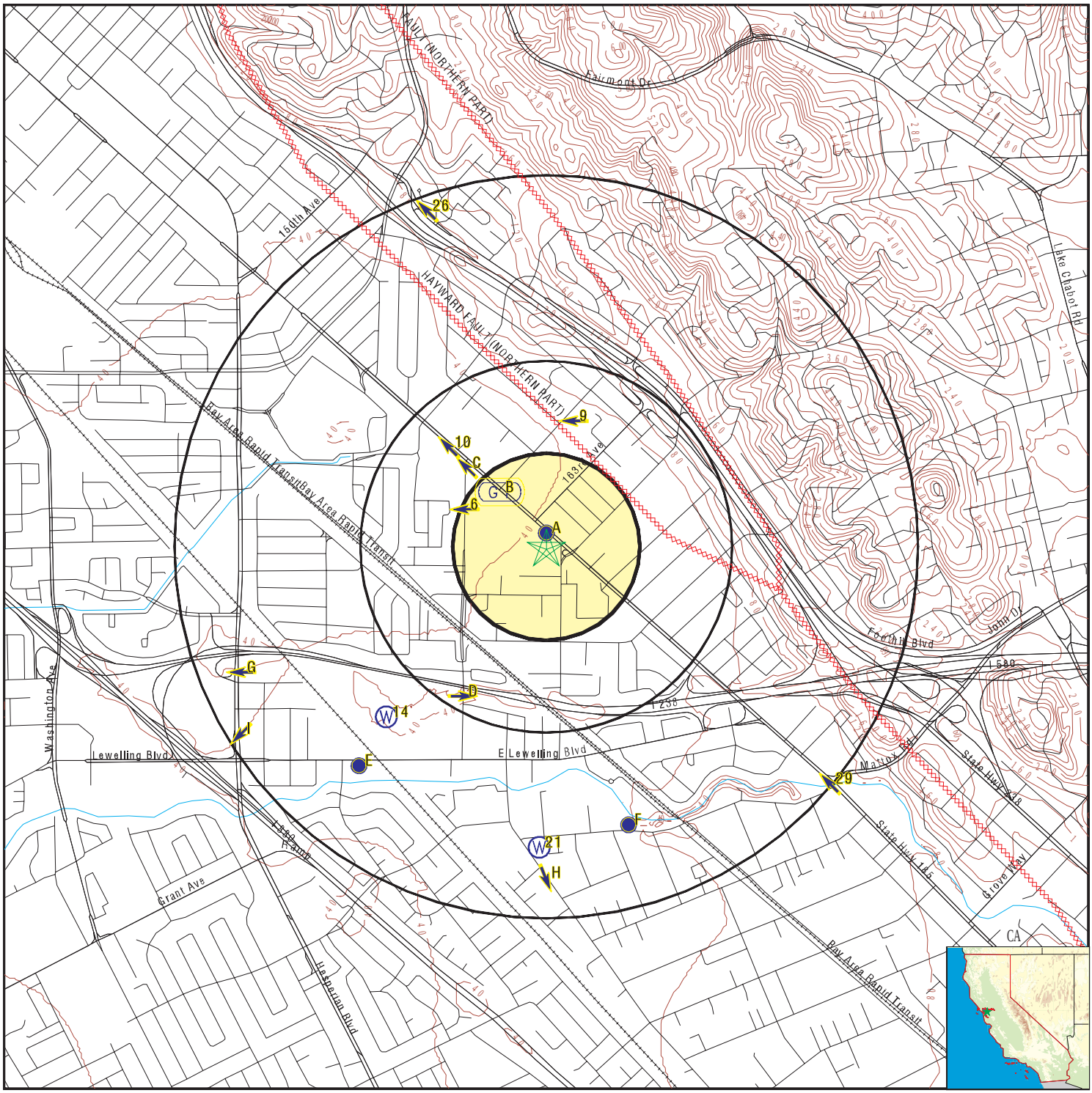
No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C8	CADW40000038069	1/4 - 1/2 Mile NW
F19	CADW40000037998	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 3045045.2s



- 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:	Ashland Housing Project	CLIENT:	RGA Environmental
ADDRESS:	16309 Kent Avenue San Lorenzo CA 94580	CONTACT:	Belinda Blackie
LAT/LONG:	37.6950 / 122.1149	INQUIRY #:	3045045.2s
		DATE:	April 18, 2011 6:45 pm

Copyright © 2011 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
A1 **NNE** **0 - 1/8 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0771 SW 2.5 10.0 Not Reported 05/26/1999	**AQUIFLOW**	**52396**
A2 **NNE** **0 - 1/8 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0771 SE 13.5 14.5 Not Reported 11/27/1990	**AQUIFLOW**	**52398**
A3 **NNW** **0 - 1/8 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0771 SW Not Reported Not Reported 10 12/09/1998	**AQUIFLOW**	**52397**
B4 **NW** **1/8 - 1/4 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-3745 NE, NW 9.5 10.0 Not Reported 09/10/1991	**AQUIFLOW**	**67600**
B5 **NW** **1/8 - 1/4 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1164 NE, NW 1.5 8.5 Not Reported 03/06/1992	**AQUIFLOW**	**67886**
6 **WNW** **1/8 - 1/4 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported W 6.05 9.23 Not Reported 12/06/1994	**AQUIFLOW**	**52511**
C7 **NW** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0178 NW 7.12 8.19 Not Reported 09/16/1994	**AQUIFLOW**	**67597**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
C8 **NW** **1/4 - 1/2 Mile** **Lower**			**CA WELLS**	**CADW40000038069**
	Longitude:	-122.1182		
	Latiude:	37.6983		
	Stwellno:	03S02W06R002M		
	Districtco:	7		
	Welluseco:	I		
	Countyco:	1		
	Gwcode:	200901		
	Site id:	CADW40000038069		
9 **NNE** **1/4 - 1/2 Mile** **Higher**	Site ID:	01-1436	**AQUIFLOW**	**67884**
	Groundwater Flow:	W		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	7.10		
	Date:	09/28/1989		
10 **NW** **1/4 - 1/2 Mile** **Lower**	Site ID:	01-2910	**AQUIFLOW**	**67598**
	Groundwater Flow:	NW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	8.5		
	Date:	09/28/1992		
D11 **SSW** **1/4 - 1/2 Mile** **Lower**	Site ID:	01-1095	**AQUIFLOW**	**52517**
	Groundwater Flow:	E		
	Shallow Water Depth:	5.0		
	Deep Water Depth:	7.0		
	Average Water Depth:	Not Reported		
	Date:	09/29/1993		
D12 **SSW** **1/4 - 1/2 Mile** **Lower**	Site ID:	01-1095	**AQUIFLOW**	**52518**
	Groundwater Flow:	E		
	Shallow Water Depth:	6.5		
	Deep Water Depth:	7.0		
	Average Water Depth:	Not Reported		
	Date:	08/19/1993		
D13 **SSW** **1/4 - 1/2 Mile** **Lower**	Site ID:	01-1095	**AQUIFLOW**	**52519**
	Groundwater Flow:	E		
	Shallow Water Depth:	4.55		
	Deep Water Depth:	9.41		
	Average Water Depth:	Not Reported		
	Date:	12/16/1996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

14
SW
1/2 - 1 Mile
Lower

FED USGS **USGS3235823**

Agency cd:	USGS	Site no:	374113122071901
Site name:	003S002W07G012M		
Latitude:	374118.1	EDR Site id:	USGS3235823
Longitude:	1220721.9	Dec lat:	37.68836111
Dec lon:	-122.12275	Coor meth:	D
Coor accr:	1	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	001
Country:	US	Land net:	Not Reported
Location map:	HAYWARD	Map scale:	24000
Altitude:	35.7		
Altitude method:	Differential Global Positioning System (GPS)		
Altitude accuracy:	.2		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	San Francisco Bay. California. Area = 1200 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19910812
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	595	Hole depth:	610
Source of depth data:	driller		
Project number:	470653600		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1999-11-15
Water quality data end date:	1999-11-15	Water quality data count:	1
Ground water data begin date:	2002-11-13	Ground water data end date:	2002-11-13
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2002-11-13	30.14	

E15
SW
1/2 - 1 Mile
Higher

AQUIFLOW **52391**

Site ID:	01-1531
Groundwater Flow:	SW
Shallow Water Depth:	13.37
Deep Water Depth:	22.18
Average Water Depth:	Not Reported
Date:	11/14/1994

E16
SW
1/2 - 1 Mile
Higher

AQUIFLOW **52392**

Site ID:	01-1531
Groundwater Flow:	SW
Shallow Water Depth:	13.35
Deep Water Depth:	17.50
Average Water Depth:	Not Reported
Date:	09/01/1999

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
E17	Site ID:	01-1531		
SW	Groundwater Flow:	NW	**AQUIFLOW**	**52393**
1/2 - 1 Mile	Shallow Water Depth:	15.62		
Higher	Deep Water Depth:	17.62		
	Average Water Depth:	Not Reported		
	Date:	10/08/1987		

F18
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS3235996**

Agency cd:	USGS	Site no:	374103122063901
Site name:	003S002W08L003M		
Latitude:	374103	EDR Site id:	USGS3235996
Longitude:	1220639	Dec lat:	37.68416667
Dec lon:	-122.11083333	Coor meth:	G
Coor accr:	F	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	001
Country:	US	Land net:	Not Reported
Location map:	HAYWARD	Map scale:	24000
Altitude:	64.6		
Altitude method:	Level or other surveying method		
Altitude accuracy:	1		
Altitude datum:	North American Vertical Datum of 1988		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	1942
Date inventoried:	19990129	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	211	Hole depth:	Not Reported
Source of depth data:	other government (other than USGS)		
Project number:	470653600		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	2002-11-13	Ground water data end date:	2002-11-13
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2002-11-13	28.07	

F19
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADW40000037998**

Longitude:	-122.1098
Latiude:	37.6842
Stwellno:	03S02W08L003M
Districtco:	7
Welluseco:	I
Countyco:	1
Gwcode:	200901
Site id:	CADW40000037998

E20
SW
1/2 - 1 Mile
Higher

AQUIFLOW **68802**

Site ID:	01-1714
Groundwater Flow:	SW
Shallow Water Depth:	13.82
Deep Water Depth:	19.28
Average Water Depth:	Not Reported
Date:	11/17/1993

21
South
1/2 - 1 Mile
Higher

FED USGS **USGS3235995**

Agency cd:	USGS	Site no:	374100122065101
Site name:	003S002W08M003M		
Latitude:	374100	EDR Site id:	USGS3235995
Longitude:	1220651	Dec lat:	37.68326438
Dec lon:	-122.11524193	Coor meth:	U
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	001
Country:	US	Land net:	Not Reported
Location map:	HAYWARD	Map scale:	24000
Altitude:	48		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	San Francisco Bay. California. Area = 1200 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1968
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	85	Hole depth:	85
Source of depth data:	driller		
Project number:	470653600		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1998-11-18
Water quality data end date:	1999-03-24	Water quality data count:	3
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
G22 **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0328 W 14.5 15.0 Not Reported 11/17/1992	**AQUIFLOW**	**52959**
G23 **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0328 W 10.87 14.95 Not Reported 09/06/1994	**AQUIFLOW**	**52960**
H24 **South** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0822 SSE 6.53 6.60 Not Reported 07/16/1992	**AQUIFLOW**	**53505**
H25 **South** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0822 SSE 15.5 20.04 Not Reported 03/08/1995	**AQUIFLOW**	**53506**
26 **NNW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1262 NW Not Reported Not Reported 12-17 01/11/1996	**AQUIFLOW**	**52504**
I27 **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0126 SW 9.73 15.29 Not Reported 06/10/1996	**AQUIFLOW**	**50309**
I28 **WSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0126 SW 13.5 25.0 Not Reported 09/16/1986	**AQUIFLOW**	**50310**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
29 **SE** **1/2 - 1 Mile** **Higher**	Site ID:	01-1160	**AQUIFLOW**	**50290**
	Groundwater Flow:	NW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	40		
	Date:	08/28/1991		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94580	10	0

Federal EPA Radon Zone for ALAMEDA 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 ALAMEDA COUNTY, CA

Number of sites tested: 49

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.776 pCi/L	100%	0%	0%
Living Area - 2nd Floor	-0.400 pCi/L	100%	0%	0%
Basement	1.338 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 & 2009 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

© 2010 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

134-21 5M

COUNTY OF ALAMEDA

BUILDING INSPECTION DEPARTMENT

APPLICATION FOR BUILDING PERMIT

TYPE V BUILDING (W. F.)

Application is hereby made for approval of the plans and specifications and for a permit for the construction or alteration of a building as follows:

DWELLING Group I

Location _____ _____ _____ R-1
Lot Block Tract Zone

★ 15209 KENT AVE.
10309 S.COR.

Estimated Value, $ 8,000 00
Includes all material and labor for finished building

Owner BERNARD MADRID

Address 15221 KENT AVE. S.COR.

Architect _____ No. _____

Engineer _____ No. _____

Builder _____ No. _____

Address _____

For Group J or minor buildings where no plans required, fill in this space

FOUNDATION

MATERIAL	EXTERIOR	PIERS
TOP WIDTH		
BOTTOM WIDTH		
DEPTH		

SUPERSTRUCTURE

	SIZE	SPACING	SPAN
R. W. SILL			
GIRDERS			
JOISTS FLOOR			
JOISTS CEILING			
STUDS. EXT.			
STUDS. INT.			
RAFTERS			

COVERING

EXTERIOR WALLS	
INTERIOR WALLS	
ROOF	

(I) (We) hereby agree to save, indemnify, and keep harmless the County of Alameda against all liabilities, judgments, costs and expenses which may in any wise accrue against said County in consequence of the granting of this permit, or from the use or occupancy of any sidewalk, street or subsidewalk space by virtue thereof, and will in all things strictly comply with the conditions of this permit and the ordinances and/or rules of any governmental agency involved.

Bernard Madrid
Signature of Owner, Agent or Builder

Address 15221 Kent Ave San Lorenzo

Date FEB 14 1958 Telephone Number _____

FOR DEPARTMENT USE ONLY

Date Issued FEB 14 1958 Permit Number 61253

Examined by U.C.D. Receipt Number 12951

Permit Fee 27 00 Remarks:

Checking Fee _____ SEE P.C. RESO. #2705

Total Fee $ 27 00 FOR ADJ.

MAY 2 1958

2636 5M 3-48

COUNTY OF ALAMEDA
BUILDING INSPECTION DEPARTMENT
APPLICATION FOR BUILDING PERMIT
TYPE V BUILDING (Wood Frame)

Application is hereby made for approval of the plans and specifications and for a permit for the construction or alteration of a building as follows:

14 CAR GARAGE 18'X114'
Use of Building

~~16309~~ ~~15209~~ Location ~~1062~~ KENT AVE

SAN LORENZO

Estimated Cost, $ 3000.00
Includes all material and labor for finished building

Owner BERNARD MADRID

Address 854 KENT AVE

Architect ..... No. .....

or

Engineer ..... No. .....

Builder SAME No. .....

For Group J or minor buildings where no plans required, fill in this space.

FOUNDATION

MATERIAL	EXTERIOR	PIERS
TOP WIDTH		
BOTTOM WIDTH		
DEPTH		

SUPERSTRUCTURE

	SIZE	SPACING	SPAN
R. W. SILL			
GIRDERS			
JOISTS FLOOR			
JOISTS CEILING			
STUDS. EXT.			
STUDS. INT.			
RAFTERS			

COVERING

EXTERIOR WALLS	
INTERIOR WALLS	
ROOF	

(I) (We) hereby agree to save, indemnify, and keep harmless the County of Alameda against all liabilities, judgments, costs and expenses which may in any wise accrue against said County in consequence of the granting of this permit, or from the use or occupancy of any sidewalk, street, or subsidewalk space by virtue thereof, and will in all things strictly comply with the conditions of this permit and the ordinances and/or rules of any governmental agency involved.

6-4-49

Bernard Madrid
Signature of Owner, Agent or Builder

Address 854 Kent Ave San Lorenzo

Date DEC - 2 1948 Telephone Number LI. 1-5166

FOR DEPARTMENT USE ONLY

Date Received DEC - 2 1948 Permit Number 9456

Examined by WBR Date Issued DEC - 2 1948

Permit Fee $7.00 Inspections:

Checking Fee ..... Forms .....

Frame .....

Total Fee $7.00 Lath (Interior) .....

Lath (Exterior) .....

Final June 27-52

J 253189

APPLICATION FOR BUILDING PERMIT
COUNTY OF ALAMEDA - BUILDING INSPECTION DIVISION
Room 166, 224 W. Winton Ave., Hayward, Calif.
537-5800, 357-0844

FOR APPLICANT TO FILL IN

1. JOB ADDRESS 16325 KENT AVE
SAN LORENZO
2. OWNER MR. & MRS. WILLIAM J. MASSIE
ADDRESS 16325 KENT AVE.
SAN LORENZO PHONE BR8-3558
3. CONTRACTOR SAME
ADDRESS
STATE LIC. # PHONE
4. Architect, Engineer or Designer
ADDRESS
STATE LIC. # PHONE
5. LEGAL DESCRIPTION (Fill in one of the following)
A. LOT BLOCK TRACT
B. BOOK 80C BLOCK 479 PARCEL 23-1
C. METES & BOUNDS

6. DESCRIPTION OF WORK TO BE DONE
New Addition X Alteration Repair Moved Demolish
A. DESCRIBE NEW BUILDING
Gross Area No. Stories
Exterior Wall Covering
B. DESCRIBE PRESENT BUILDING
Gross Area No. Stories
Exterior Wall Covering
C. DESCRIBE ADDITION
Gross Area 816 No. Stories 2
Exterior Wall Covering STUCCO
D. DESCRIBE ALTERATION OR REPAIR WORK

7. PROPOSED USE OF BUILDING
1st Floor - Family Room
2nd Floor - Bdrm - Bath
PRESENT USE OF BUILDING

8. VALUATION (include costs of all labor and material) 8,000.00

9. I certify that I have read this application and state that the above information is correct. I agree to comply to all County Ordinances and State laws relating to building construction. I certify that in the performance of the above work I shall not employ any person in violation of the Labor Code of California relating to Workmen's Compensation Insurance.

CONTRACTORS SIGN BELOW

I certify that I am a licensed contractor and that my license is in full force and effect.

CONTRACTOR By AUTHORIZED AGENT

OWNER-BUILDER SIGN BELOW

I certify that I am exempt from the provisions of Chap. 9, Div. 3, B. and P. Code (Contractor's License Law) because: (check one)

☐ I am the owner of the above property and will personally perform the above work.

☐ I am the owner of the above property and I will contract to have all of the above work performed by licensed contractors.

William J. Massie By
OWNER'S SIGNATURE AUTHORIZED AGENT

INSPECTOR'S COPY

VALIDATE HERE

P.C.
JAN 29-65 1-1836A*****27.00
B.P. 1-29 1836A 27.00

When properly validated in the space above this is your permit.

FOR OFFICE USE ONLY

JOB ADDRESS 16325 Kent Ave. SLZ
PLAN NO.
GROUP I TYPE V USE ZONE R-1
ENCROACHMENT PERMIT #
P.C. RESO. # B.S. RESO. #
BOND # FWL. SBL
SURVEY COUNTY RD. PVT. RD.
WATER SEWER GAS
GROSS LIVING AREA
CENSUS TRACT
PLAN CHECK PERMIT FEE $27.00
REC'D CHECKED
APPROVED HSL ISSUED

INSPECTION RECORD

East Lath Sm - Heat.
TOP-Plbg.
UF Inst 2/4/65
Fireplace damper ok JBH 3-5-65
Final Heat & Bldg. 6-24-65
mech steps at outside doors and Handrail at Stairs. 6-24-65 JBH
Informed owner Progress must be made on Job 9/25/65 R.L.Reed

APPROVALS

	Inspector	Date
Foundation	JBH	2-4-65
Under Floor		
Frame	JBH	2-26-65
Int. Lath or Drywall		
Exterior Lath	JBH	3-9-65
FINAL	R.L.Reed	4/15/65
Service OK		
P.G & E. Notified		

134-21 5M

COUNTY OF ALAMEDA

BUILDING INSPECTION DEPARTMENT

APPLICATION FOR BUILDING PERMIT

TYPE BUILDING ( )

Application is hereby made for approval of the plans and specifications and for a permit for the construction or alteration of a building as follows:

DET. CARPORT Group J

Location _____ _____ _____ R-1
Lot Block Tract Zone

16325 KENT AVE.
S. COR.

Estimated Value, $ 500 00
Includes all material and labor for finished building

Owner WILLIAM MASSIE

Address SAME

Architect _____ No. _____

Engineer _____ No. _____

Builder SAME No. _____

Address _____

For Group J or minor buildings where no plans required, fill in this space

FOUNDATION

MATERIAL	EXTERIOR	PIERS
TOP WIDTH		
BOTTOM WIDTH		
DEPTH		

SUPERSTRUCTURE

	SIZE	SPACING	SPAN
R. W. SILL			
GIRDERS			
JOISTS FLOOR			
JOISTS CEILING			
STUDS. EXT.			
STUDS. INT.			
RAFTERS			

COVERING

EXTERIOR WALLS	
INTERIOR WALLS	
ROOF	

(I) (We) hereby agree to save, indemnify, and keep harmless the County of Alameda against all liabilities, judgments, costs and expenses which may in any wise accrue against said County in consequence of the granting of this permit, or from the use or occupancy of any sidewalk, street or subsidewalk space by virtue thereof, and will in all things strictly comply with the conditions of this permit and the ordinances and/or rules of any governmental agency involved.

/ William Massie
Signature of Owner, Agent or Builder

Address _____

Date NOV 10 1959 Telephone Number _____

FOR DEPARTMENT USE ONLY

Date Issued NOV 10 1959 Permit Number 67101

Examined by V.O. Receipt Number 21824

Permit Fee $5-00 Remarks: V.C. RESO. # 2705

Checking Fee $5-00

Total Fee

NOV 17 1960

7-52 WC

COUNTY OF ALAMEDA
BUILDING INSPECTION DEPARTMENT
APPLICATION FOR BUILDING PERMIT

TYPE V BUILDING (W.F.)

Application is hereby made for approval of the plans and specifications and for a permit for the construction or alteration of a building as follows:

Demolition of tank house — Use of Building — Group G

Location — Lot — Block — Tract — Zone U

(633) 15221 Kent Ave

San Lorenzo

Estimated Value, $ 100.00
Includes all material and labor for finished building

Owner Bernard Madrid

Address

Architect ..... No.

Engineer ..... No.

Builder Same ..... No.

Address

For Group J or minor buildings where no plans required, fill in this space.

FOUNDATION

MATERIAL	EXTERIOR	PIERS
TOP WIDTH		
BOTTOM WIDTH		
DEPTH		

SUPERSTRUCTURE

	SIZE	SPACING	SPAN
R. W. SILL			
GIRDERS			
JOISTS FLOOR			
JOISTS CEILING			
STUDS. EXT.			
STUDS. INT.			
RAFTERS			

COVERING

EXTERIOR WALLS	
INTERIOR WALLS	
ROOF	

(I) (We) hereby agree to save, indemnify, and keep harmless the County of Alameda against all liabilities, judgments, costs and expenses which may in any wise accrue against said County in consequence of the granting of this permit, or from the use or occupancy of any sidewalk, street, or subsidewalk space by virtue thereof, and will in all things strictly comply with the conditions of this permit and the ordinances and/or rules of any governmental agency involved.

Bernard Madrid
Signature of Owner, Agent or Builder

Address 15221 Kent Ave

Date 4/28/53 Telephone Number

FOR DEPARTMENT USE ONLY 31735

Date Issued 4/28/53 Permit Number

Examined by MBR Receipt Number 15918

Permit Fee 1.00 Remarks:

Checking Fee

Total Fee $1.00

JUN 26 1953

ALAMEDA COUNTY HEALTH DEPARTMENT

PERMIT TO OPERATE

RECEIVED
OCT 15 1962

Mobilehome Park
Type of Establishment

Bernard Madrid
Issued To

Ashland Delux Trailer Park
Doing Business As

16331 Kent Avenue, San Leandro
Located At

THIS PERMIT IS NOT TRANSFERABLE and is good until December 31, 1962 ~~revoked~~

JAMES C. MALCOLM, M.D.
Health Officer

October 10, 1962
Date Issued

E. G. Cochrane
Sanitarian

POST IN A CONSPICUOUS PLACE AT ESTABLISHMENT

HS-SAN.12T-7/58

Ashland Housing Project
16309 Kent Avenue
San Lorenzo, CA 94580

Inquiry Number: 3045045.5
April 20, 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.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2011 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Date EDR Searched Historical Sources:

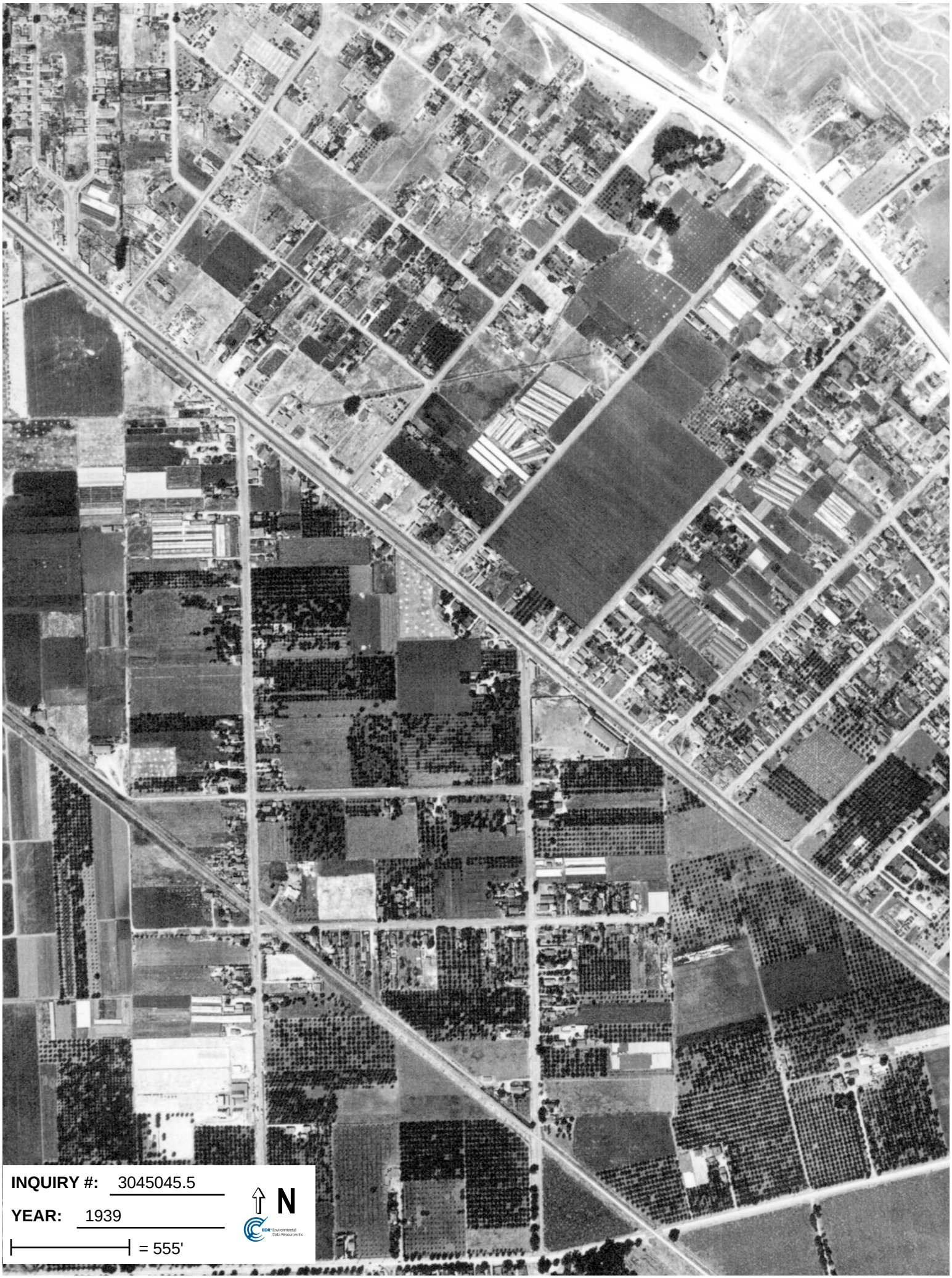
Aerial Photography April 20, 2011

Target Property:

16309 Kent Avenue

San Lorenzo, CA 94580

Year	*Scale*	*Details*	*Source*
1939	Aerial Photograph. Scale: 1"=555'	Flight Year: 1939	Fairchild
1946	Aerial Photograph. Scale: 1"=655'	Flight Year: 1946	Jack Ammann
1958	Aerial Photograph. Scale: 1"=555'	Flight Year: 1958	Cartwright
1965	Aerial Photograph. Scale: 1"=333'	Flight Year: 1965	Cartwright
1974	Aerial Photograph. Scale: 1"=601'	Flight Year: 1974	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


INQUIRY #: 3045045.5
YEAR: 1939
= 555'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3045045.5
YEAR: 1946
= 655'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3045045.5
YEAR: 1958
= 555'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3045045.5
YEAR: 1965
= 333'
N

INQUIRY #: 3045045.5
YEAR: 1974
= 601'
N

INQUIRY #: 3045045.5
YEAR: 1982
= 690'
N
EDR Environmental Data Resources Inc

INQUIRY #: 3045045.5
YEAR: 1993
= 666'
N

INQUIRY #: 3045045.5
YEAR: 1998
= 666'
N

INQUIRY #: 3045045.5
YEAR: 2005
= 604'
N

Ashland Housing Project
16309 Kent Avenue
San Lorenzo, CA 94580

Inquiry Number: 3045045.4
April 19, 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.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

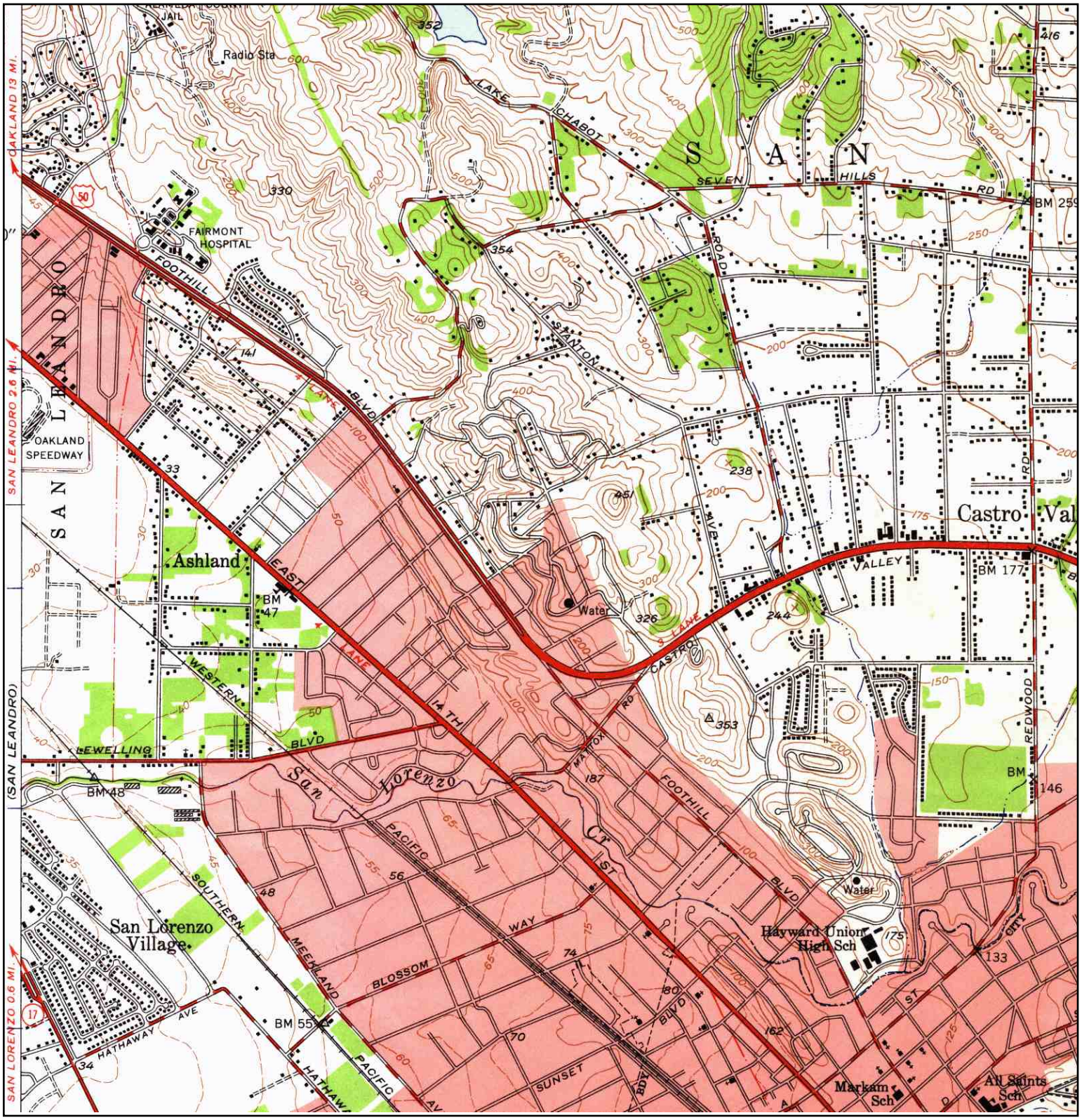
Copyright 2011 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Historical Topographic Map

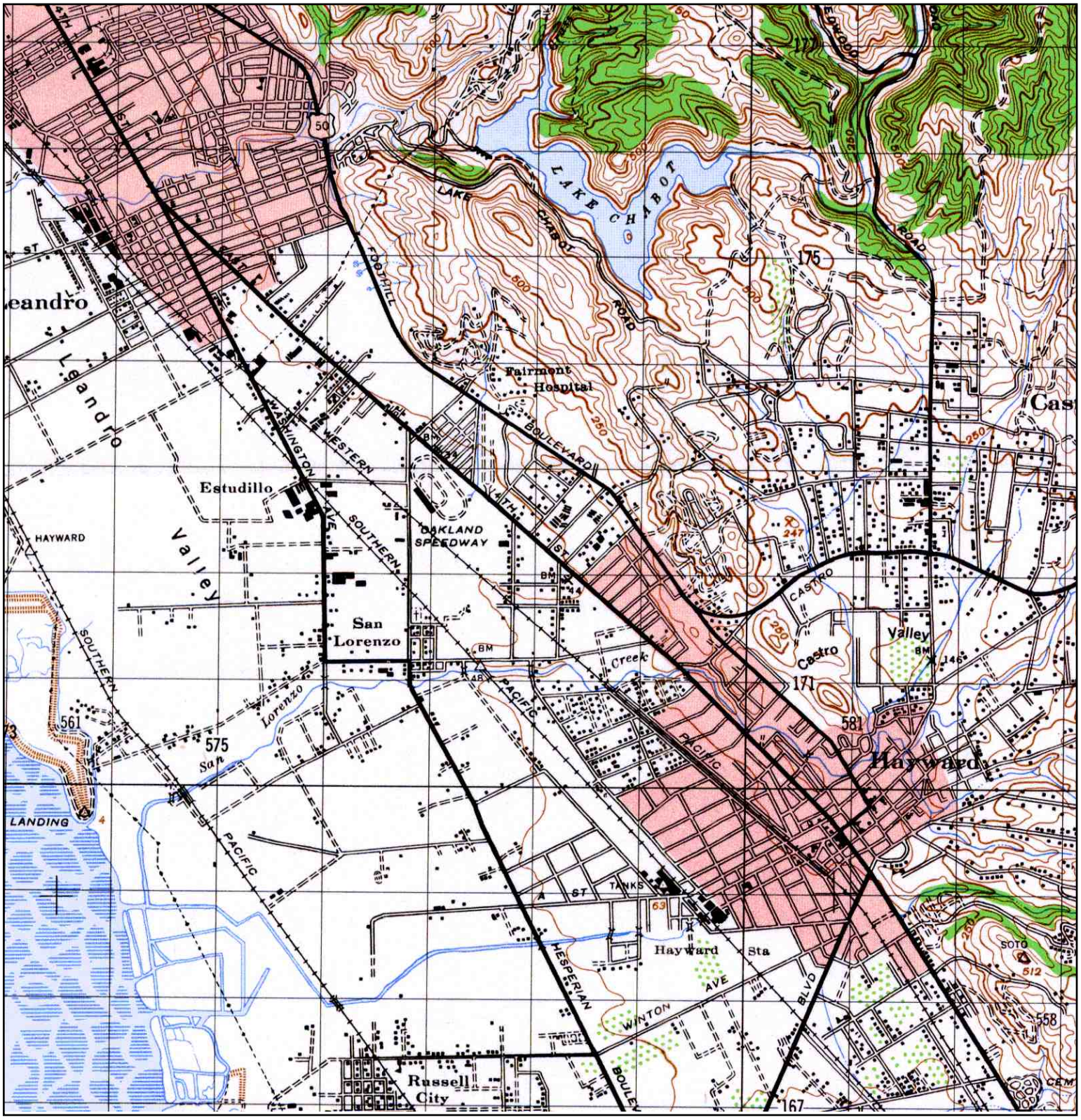
N	TARGET QUAD NAME: HAYWARDS MAP YEAR: 1899 SERIES: 15 SCALE: 1:62500	SITE NAME: Ashland Housing Project ADDRESS: 16309 Kent Avenue San Lorenzo, CA 94580 LAT/LONG: 37.695 / -122.1149	CLIENT: RGA Environmental CONTACT: Belinda Blackie INQUIRY#: 3045045.4 RESEARCH DATE: 04/19/2011

Historical Topographic Map



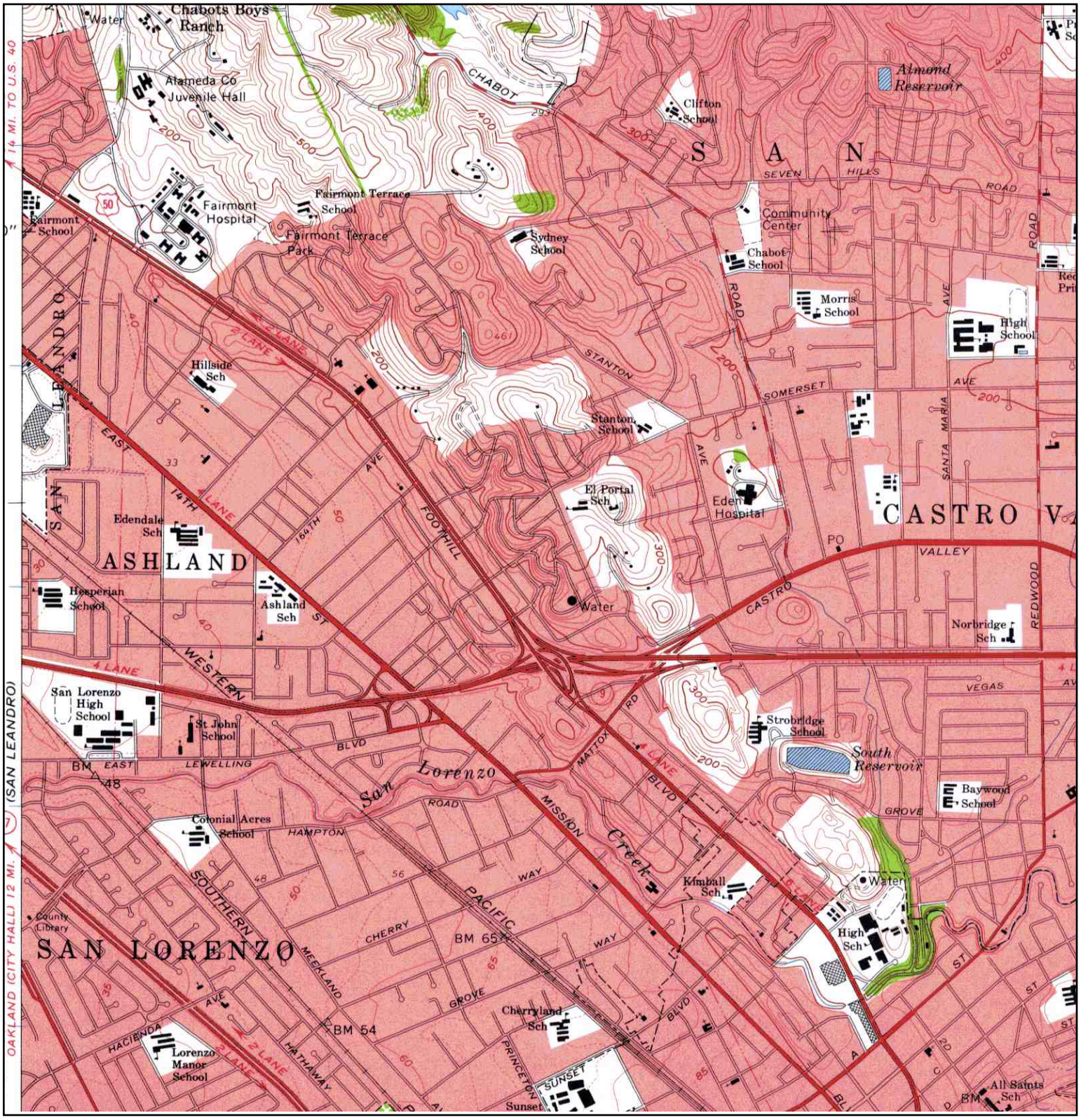
N	TARGET QUAD NAME: HAYWARD MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Ashland Housing Project ADDRESS: 16309 Kent Avenue San Lorenzo, CA 94580 LAT/LONG: 37.695 / -122.1149	CLIENT: RGA Environmental CONTACT: Belinda Blackie INQUIRY#: 3045045.4 RESEARCH DATE: 04/19/2011

Historical Topographic Map



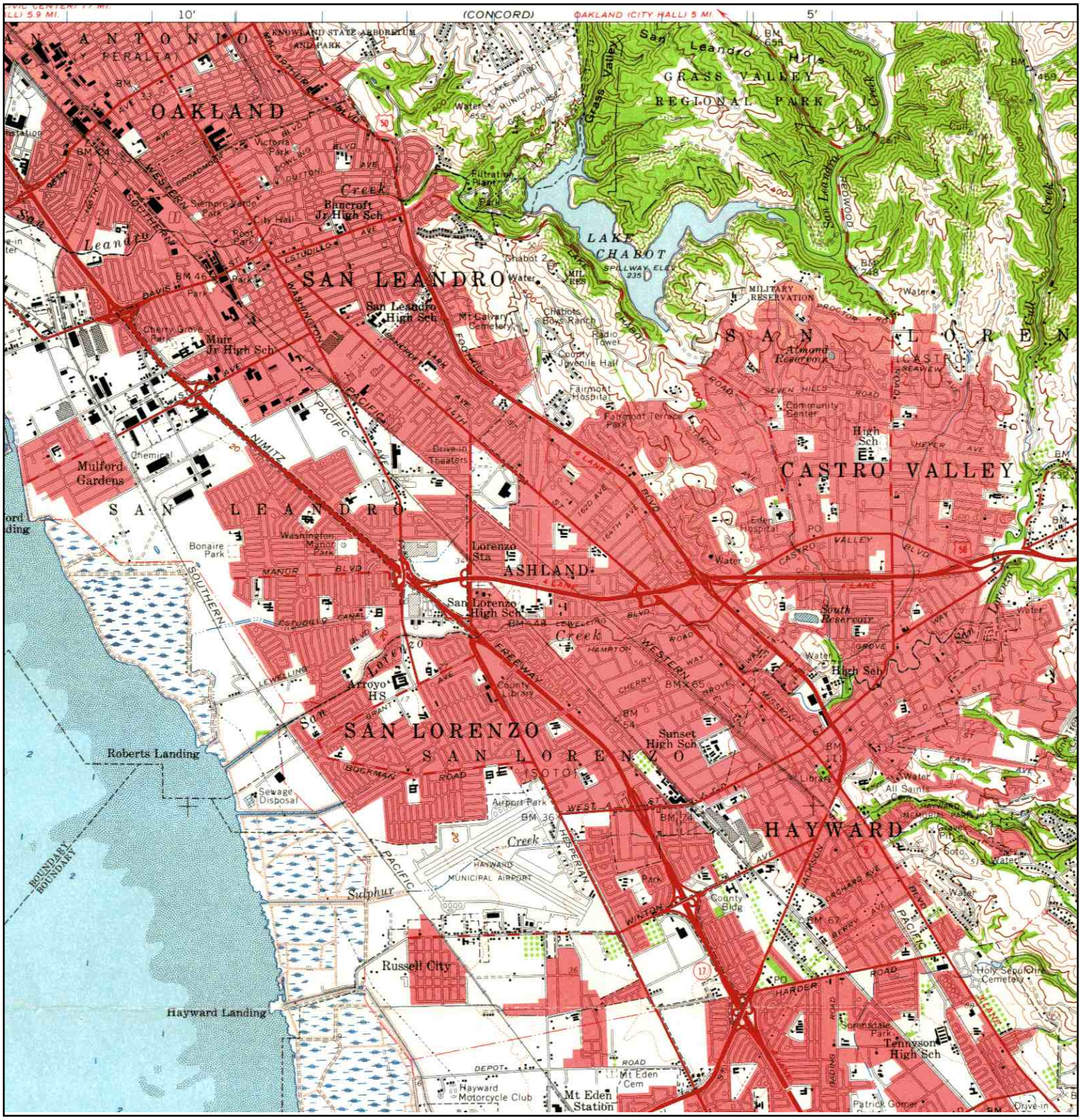
N	TARGET QUAD NAME: HAYWARD MAP YEAR: 1948 SERIES: 15 SCALE: 1:50000	SITE NAME: Ashland Housing Project ADDRESS: 16309 Kent Avenue San Lorenzo, CA 94580 LAT/LONG: 37.695 / -122.1149	CLIENT: RGA Environmental CONTACT: Belinda Blackie INQUIRY#: 3045045.4 RESEARCH DATE: 04/19/2011

Historical Topographic Map



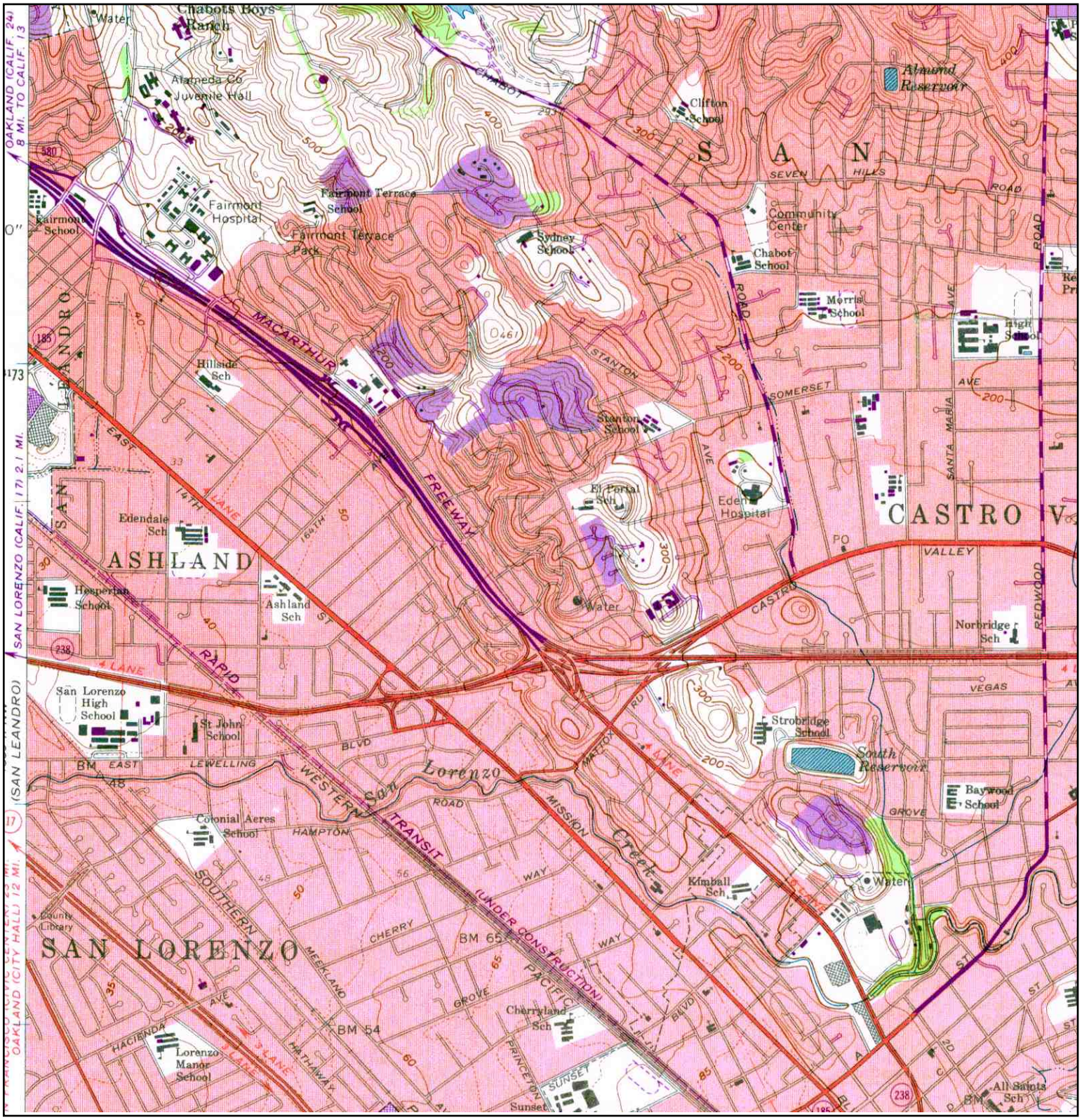
N	TARGET QUAD NAME: HAYWARD MAP YEAR: 1959 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Ashland Housing Project ADDRESS: 16309 Kent Avenue San Lorenzo, CA 94580 LAT/LONG: 37.695 / -122.1149	CLIENT: RGA Environmental CONTACT: Belinda Blackie INQUIRY#: 3045045.4 RESEARCH DATE: 04/19/2011

Historical Topographic Map



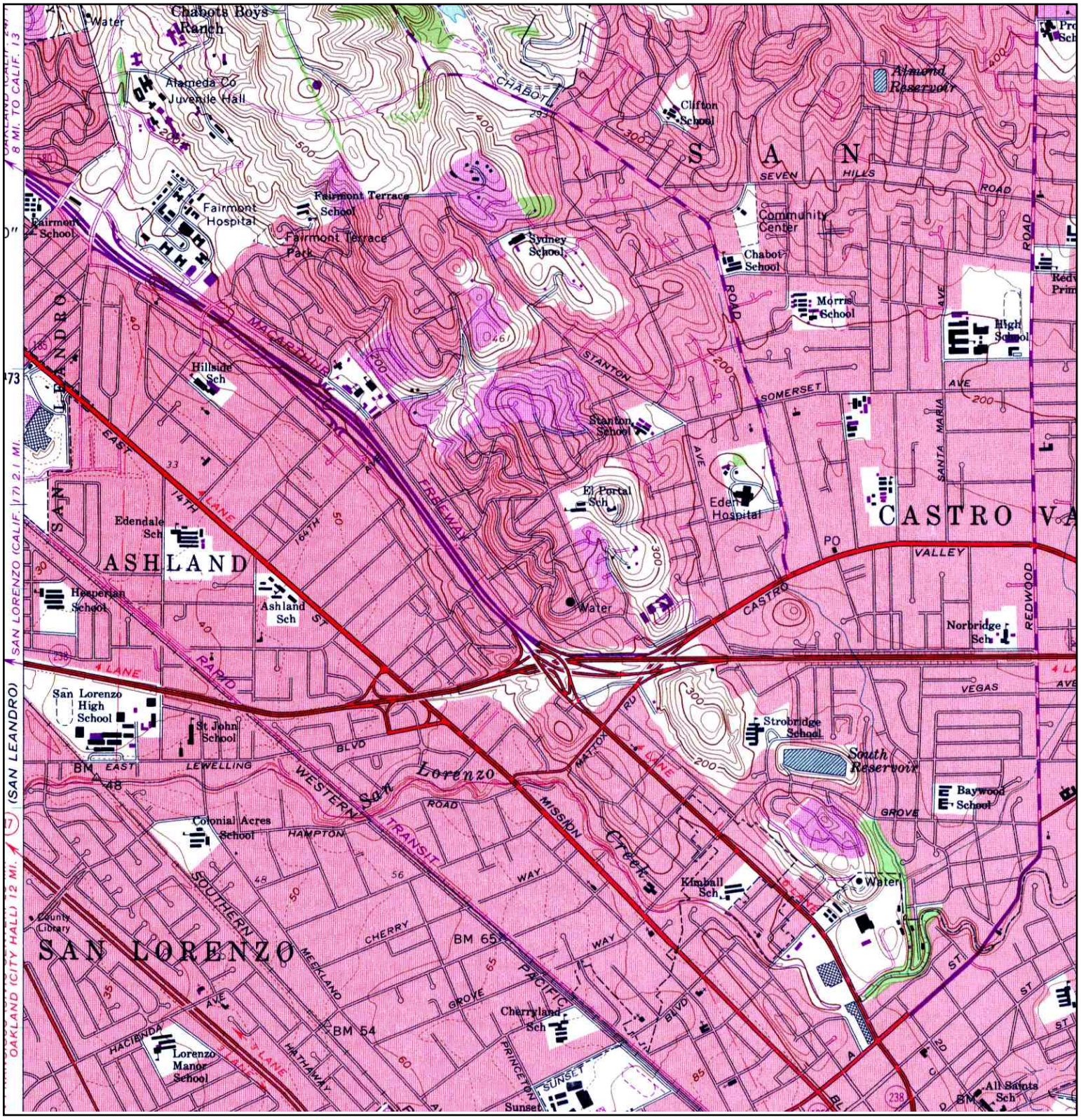
N	TARGET QUAD NAME: HAYWARD MAP YEAR: 1959 SERIES: 15 SCALE: 1:62500	SITE NAME: Ashland Housing Project ADDRESS: 16309 Kent Avenue San Lorenzo, CA 94580 LAT/LONG: 37.695 / -122.1149	CLIENT: RGA Environmental CONTACT: Belinda Blackie INQUIRY#: 3045045.4 RESEARCH DATE: 04/19/2011

Historical Topographic Map



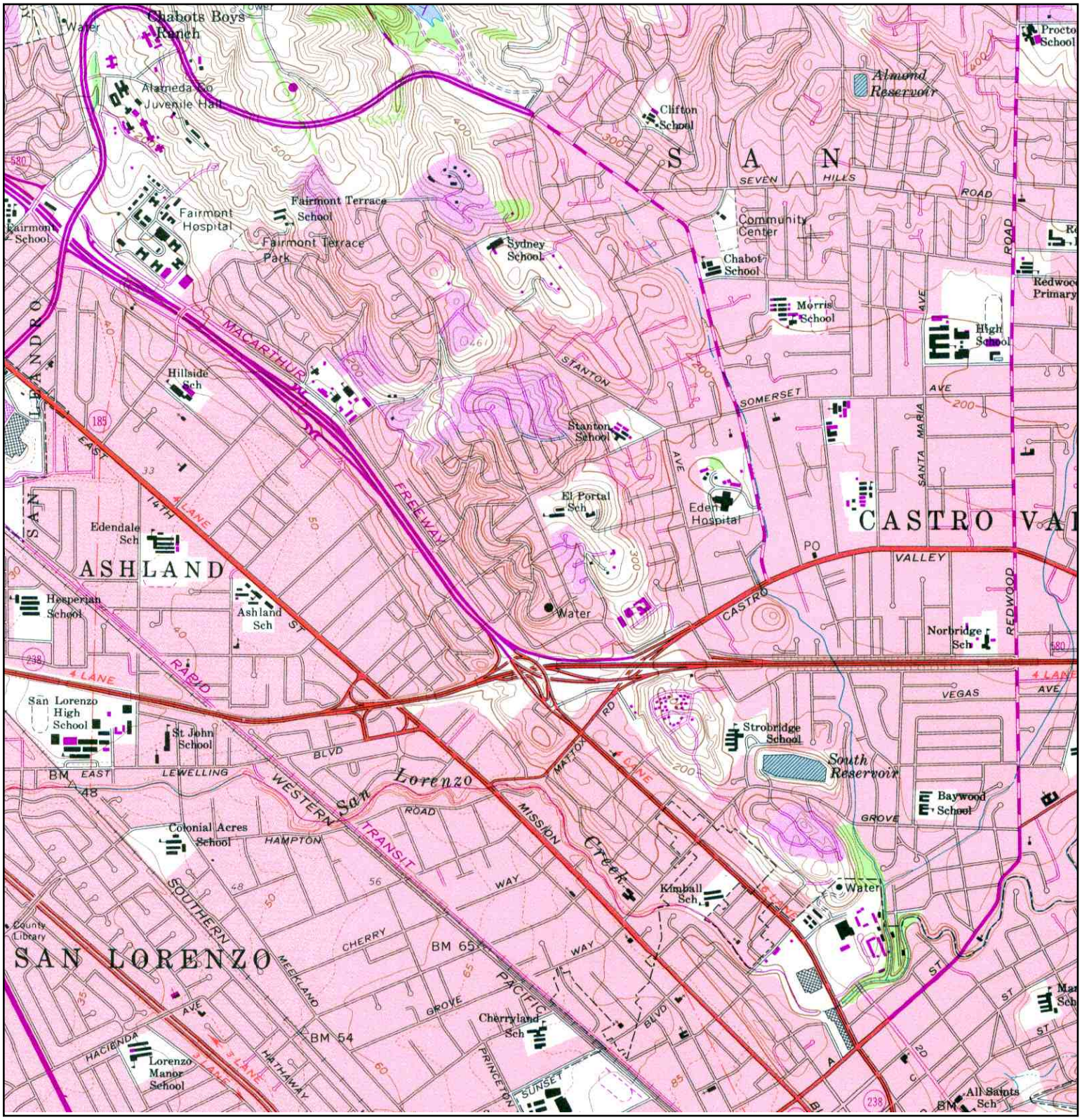
N	TARGET QUAD		SITE NAME:	Ashland Housing Project	CLIENT:	RGA Environmental
	NAME:	HAYWARD	ADDRESS:	16309 Kent Avenue	CONTACT:	Belinda Blackie
	MAP YEAR:	1968		San Lorenzo, CA 94580	INQUIRY#:	3045045.4
	PHOTOREVISED:	1959	LAT/LONG:	37.695 / -122.1149	RESEARCH DATE:	04/19/2011
	SERIES:	7.5				
	SCALE:	1:24000				

Historical Topographic Map



N	TARGET QUAD NAME: HAYWARD MAP YEAR: 1973 PHOTOREVISED:1959 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Ashland Housing Project ADDRESS: 16309 Kent Avenue San Lorenzo, CA 94580 LAT/LONG: 37.695 / -122.1149	CLIENT: RGA Environmental CONTACT: Belinda Blackie INQUIRY#: 3045045.4 RESEARCH DATE: 04/19/2011

Historical Topographic Map



N	TARGET QUAD				
	NAME:	HAYWARD	SITE NAME:	Ashland Housing Project	CLIENT: RGA Environmental
	MAP YEAR:	1980	ADDRESS:	16309 Kent Avenue	CONTACT: Belinda Blackie
	PHOTOREVISED:	1959		San Lorenzo, CA 94580	INQUIRY#: 3045045.4
	SERIES:	7.5	LAT/LONG:	37.695 / -122.1149	RESEARCH DATE: 04/19/2011
	SCALE:	1:24000			

Ashland Housing Project
16309 Kent Avenue
San Lorenzo, CA 94580

Inquiry Number: 3045045.6
April 18, 2011

The EDR-City Directory Abstract

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2009 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

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.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2006. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

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
2006	Haines Company, Inc.	-	-	-	-
2002	Haines	X	X	X	-
	R. L. Polk & Co.	X	X	X	-
2000	Pacific Bell	-	X	X	-
1996	PACIFIC BELL DIRECTORY	-	X	X	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	-	X	X	-
1991	PACIFIC BELL WHITE PAGES	-	X	X	-
1986	Pacific Bell	-	X	X	-
	PACIFIC BELL WHITE PAGES	-	X	X	-
1984	Pacific Bell	-	-	-	-
1982	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	-	X	X	-
1979	Pacific Telephone	X	X	X	-
1976	R. L. Polk & Co.	X	X	X	-
1975	Pacific Telephone	-	X	X	-
1973	Pacific Telephone	-	X	X	-
1970	Pacific Telephone Directory	-	X	X	-
1967	R. L. Polk & Co.	-	-	-	-
1965	R. L. Polk & Co.	-	X	X	-
1962	Pacific Telephone	-	X	X	-
1960	Pacific Telephone	X	X	X	-
1959	R. L. Polk & Co.	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	The Pacific Telephone & Telegraph Co.	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	X	X	-
1946	R. L. Polk & Co.	-	X	X	-
1945	The Pacific Telephone & Telegraph Co.	-	X	X	-
1943	R. L. Polk & Co.	-	-	-	-
1940	R. L. Polk & Co.	-	X	X	-
1938	Pacific Telephone	-	-	-	-
1933	R. L. Polk & Co.	-	X	X	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R. L. Polk & Co. of California	-	-	-	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	-	-	-
1920	R. L. Polk & Co. of California	-	-	-	-

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*
16325 Kent Avenue	Client Entered	X
16331 Kent Avenue	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

16309 Kent Avenue
San Lorenzo, CA 94580

FINDINGS DETAIL

Target Property research detail.

Year	*Uses*	*Source*
2002	LUZFE	Haines
	MADRID R	Haines
	LUZFE	R. L. Polk & Co.
	MADRID R	R. L. Polk & Co.
1982	JENSEN LEO SAN LORENZO	Pacific Telephone
	KESSLER WALTER C JR SAN LORENZO	Pacific Telephone
	MATTOX MIKE SAN LORENZO	Pacific Telephone
	MCDONNEL J E SAN LORENZO	Pacific Telephone
1979	JENSEN LEO	Pacific Telephone
	KESSLER WALTER C JR	Pacific Telephone
	MC DONNEL J E	Pacific Telephone
1976	JENSEN LEO	R. L. Polk & Co.
	KESSLER WALTER C JR	R. L. Polk & Co.
1960	CLARK S FRANK REWEAVING STUDIO	Pacific Telephone
	DRAGGEE BEN	Pacific Telephone
	LYON EUGENE D	Pacific Telephone
	MC DONNEL J E	Pacific Telephone
	ORREY LAURA C	Pacific Telephone
	OWENS HARRIET	Pacific Telephone
	OWENS WJ	Pacific Telephone
	WINTERS ELIZABETH MRS	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

14TH E

16301 14TH E

Year	Uses	Source
2002	BHOLLANDJohn	Haines
	DANS AUTOM	Haines

16304 14TH E

Year	Uses	Source
2002	DULCERIAL	Haines
	NUMBEROTRES	Haines
	TEAVKim	Haines

16305 14TH E

Year	Uses	Source
2002	HOLLAND Barbana 00 V UNITOAUTOC	Haines

16306 14TH E

Year	Uses	Source
2002	CASHING	Haines

16308 14TH E

Year	Uses	Source
2002	DOMINOS	Haines

16310 14TH E

Year	Uses	Source
2002	CLNRS&TLRS	Haines

16314 14TH E

Year	Uses	Source
2002	SANLE	Haines
	LAUNDERLAND	Haines

16330 14TH E

Year	Uses	Source
2002	BEPLINThomas	Haines

FINDINGS

16335 14TH E

Year	Uses	Source
2002	HOLLAND Barbara	Haines

16338 14TH E

Year	Uses	Source
2002	EPLIN Thomas	Haines
	BDYSHP TOMMYSUSE	Haines

16343 14TH E

Year	Uses	Source
2002	SVALENCIA Bulmaro	Haines

16348 14TH E

Year	Uses	Source
2002	XXXX	Haines

16349 14TH E

Year	Uses	Source
2002	ROJAS Beaomin	Haines
	NEIRAOscar	Haines
	ESPIRITUAL NATL GLASSTINTING	Haines

16375 14TH E

Year	Uses	Source
2002	GAPHOORAbdu l	Haines
	OCHOAM	Haines

16378 14TH E

Year	Uses	Source
2002	ALLSTATE INS SALES	Haines
	CAIRESGARY	Haines
	EAST BAY PARALEGAL	Haines
	SERVICES TAVIS EDWARD	Haines
	COMMUNITY DEVLP	Haines
	COMMUNITY CENTER	Haines

16384 14TH E

Year	Uses	Source
2002	XXXX	Haines

FINDINGS

16388 14TH E

Year	Uses	Source
2002	SKY COMMUNICATIONS	Haines

16390 14TH E

Year	Uses	Source
2002	INSURANCE SERVICES	Haines
	LUNA&LUNA	Haines

16392 14TH E

Year	Uses	Source
2002	XXXX	Haines

16404 14TH E

Year	Uses	Source
2002	THRIFTS VARIETYSTR	Haines
	POLI Joseph	Haines
	CORNERSTONE	Haines

16407 14TH E

Year	Uses	Source
2002	PESTANAE	Haines

16408 14TH E

Year	Uses	Source
2002	ALICES BARBER SHOP	Haines

16410 14TH E

Year	Uses	Source
2002	ONE RENTAL BAYMOTORN	Haines
	ONE RENTAL	Haines
	BAY MOTOR N	Haines
	POLIJoseph	Haines

16411 14TH E

Year	Uses	Source
2002	EDEN MARKET	Haines
	GROCERY EDEN MEAT	Haines

16438 14TH E

Year	Uses	Source
2002	XXXX	Haines

FINDINGS

16440 14TH E

Year	Uses	Source
2002	VAUGHA	Haines

16446 14TH E

Year	Uses	Source
2002	SILVA Chrislian	Haines

16455 14TH E

Year	Uses	Source
2002	VALDEZGualle	Haines

16459 14TH E

Year	Uses	Source
2002	DAWSON V	Haines

16475 14TH E

Year	Uses	Source
2002	XXXX	Haines

16485 14TH E

Year	Uses	Source
2002	XXXX	Haines

16490 14TH E

Year	Uses	Source
2002	OCARIVEAUJerry	Haines
	TAQUERIASA	Haines

16496 14TH E

Year	Uses	Source
2002	PANGChi	Haines

16500 14TH E

Year	Uses	Source
2002	BARFEEIBehzad	Haines
	HA AUTO CARE	Haines

FINDINGS

14TH ST E

16296 14TH ST E

Year	Uses	Source
1946	ECHENIQUE PEDRO	R. L. Polk & Co.
	SAUGAR M G GAS STA	R. L. Polk & Co.
1940	ECHINIQUE PEDRO GAS STA	R. L. Polk & Co.

16301 14TH ST E

Year	Uses	Source
2000	DAN S AUTOMOTIVE	Pacific Bell
1996	BLUEFORD S CARS	PACIFIC BELL DIRECTORY
	DAN S AUTOMOTIVE	PACIFIC BELL DIRECTORY
1992	DAN S AUTOMOTIVE	PACIFIC BELL DIRECTORY
	R G TRUCK SERVICE	PACIFIC BELL DIRECTORY
1986	DAN S AUTOMOTIVE	PACIFIC BELL WHITE PAGES
	HOLLAND JACK SR OIL COMPANY	PACIFIC BELL WHITE PAGES

16304 14TH ST E

Year	Uses	Source
2000	DULCERIA LA ROSA NUMBERO TRES	Pacific Bell
1996	VIDEO WORLD	PACIFIC BELL DIRECTORY
1992	PHOTO & VIDEO WORLD	PACIFIC BELL DIRECTORY
1986	PHOTO & VIDEO WORLD	PACIFIC BELL WHITE PAGES

16305 14TH ST E

Year	Uses	Source
2000	B UNITED AUTO CENTER	Pacific Bell
1996	A UNITED AUTO CENTER	PACIFIC BELL DIRECTORY
	B UNITED AUTO	PACIFIC BELL DIRECTORY
1992	BLUEFORD S CARS	PACIFIC BELL DIRECTORY
1986	MUNOZ MOTORS	PACIFIC BELL WHITE PAGES
	MIRACLE MOTOR	PACIFIC BELL WHITE PAGES

16306 14TH ST E

Year	Uses	Source
2000	A TO Z CHECK CASHING	Pacific Bell
1946	MARTIN F K JR	R. L. Polk & Co.

FINDINGS

16308 14TH ST E

Year	Uses	Source
2000	DOMINO S PIZZA	Pacific Bell
1996	DOMINO S PIZZA	PACIFIC BELL DIRECTORY
1992	DOMINO S PIZZA	PACIFIC BELL DIRECTORY
1986	DOMINO S PIZZA	PACIFIC BELL WHITE PAGES

16310 14TH ST E

Year	Uses	Source
2000	WINDMILL CLEANERS & TAILORS	Pacific Bell
1996	WINDMILL CLEANERS & TAILORS	PACIFIC BELL DIRECTORY
1992	WINDMILL CLEANERS & TAILORS	PACIFIC BELL DIRECTORY

16314 14TH ST E

Year	Uses	Source
2000	SAN LEANDRO LAUNDERLAND	Pacific Bell
1996	SAN LEANDRO LAUNDERLAND	PACIFIC BELL DIRECTORY

16316 14TH ST E

Year	Uses	Source
1946	CABROL A N	R. L. Polk & Co.
	NICHOLAS ALF	R. L. Polk & Co.

16330 14TH ST E

Year	Uses	Source
1996	NEW TO YOU	PACIFIC BELL DIRECTORY
1992	NEW TO YOU	PACIFIC BELL DIRECTORY
1986	NEARLY NEW SHOP	PACIFIC BELL WHITE PAGES

16338 14TH ST E

Year	Uses	Source
2000	EPLIN S TOM AUTOMOTIVE CENTER BODY SHOP &	Pacific Bell
1996	SUPER SHOPS AUTOMOTIVE PERFORMANCE CENTERS	PACIFIC BELL DIRECTORY
1992	SUPER SHOPS AUTOMOTIVE PERFORMANCE CENTERS	PACIFIC BELL DIRECTORY
1986	SUPER SHOPS	PACIFIC BELL WHITE PAGES

16343 14TH ST E

Year	Uses	Source
2000	LA TAVERNA	Pacific Bell

Year	Uses	Source
1996	LA TAVERNA BAR	PACIFIC BELL DIRECTORY
1992	HALFWAY CLUB	PACIFIC BELL DIRECTORY
1986	HALFWAY CLUB THE	PACIFIC BELL WHITE PAGES
	HALF WAY CLUB	PACIFIC BELL WHITE PAGES

16348 14TH ST E

Year	Uses	Source
1992	BODYCRAFT COMPANY	PACIFIC BELL DIRECTORY
1986	CARRIAGE HOUSE AUTO BODY	PACIFIC BELL WHITE PAGES
	CADILLAC BY DAN	PACIFIC BELL WHITE PAGES
	TOM S AUTO LAUNDRY	PACIFIC BELL WHITE PAGES

16349 14TH ST E

Year	Uses	Source
2000	NATIONAL WINDOW TINTING CO	Pacific Bell
	C ROJAS BEJAMIN	Pacific Bell
1996	NATIONAL WINDOW TINTING CO	PACIFIC BELL DIRECTORY
	A GABY S PICTURES & GIFTS	PACIFIC BELL DIRECTORY
1992	NATL GLASS TINTING CO	PACIFIC BELL DIRECTORY
1986	JET ENERGY COMPANY	PACIFIC BELL WHITE PAGES
	ANORES BODY SHOP	PACIFIC BELL WHITE PAGES

16350 14TH ST E

Year	Uses	Source
1946	DIAZ ROSENDO	R. L. Polk & Co.
1940	DIAZ ROSANDO	R. L. Polk & Co.

16358 14TH ST E

Year	Uses	Source
1986	ELOREDGE MOTORS	PACIFIC BELL WHITE PAGES

16360 14TH ST E

Year	Uses	Source
1946	FREE METHODIST CHAPEL	R. L. Polk & Co.
1940	ROZE M E GRO	R. L. Polk & Co.

16375 14TH ST E

Year	Uses	Source
2000	BAY SIGNS	Pacific Bell
	OCHOA MARTIN	Pacific Bell

FINDINGS

Year	Uses	Source
1996	BAY SIGNS	PACIFIC BELL DIRECTORY

16378 14TH ST E

Year	Uses	Source
2000	ALAMEDA COUNTY COMMUNITY DEVELOPMENT	Pacific Bell
	201 ALLSTATE INSURANCE COMPANIES	Pacific Bell
	205 EAST BAY PARALEGAL SERVICES	Pacific Bell
1996	201 ALLSTATE INSURANCE COMPANIES	PACIFIC BELL DIRECTORY
	EVER-KLEEN MAINTENANCE	PACIFIC BELL DIRECTORY
	G & C VIDEO PRODUCTIONS	PACIFIC BELL DIRECTORY
	ALAMEDA COUNTY COMMUNITY DEVELOPMENT	PACIFIC BELL DIRECTORY
1992	204 GARY RONALD K INC MD	PACIFIC BELL DIRECTORY
	202 LEE DENNIS G DDS	PACIFIC BELL DIRECTORY
	201 ALLSTATE INSURANCE COMPANIES	PACIFIC BELL DIRECTORY
	101 WARDZINSKA JANE MD	PACIFIC BELL DIRECTORY
	WARDZINSKA JANE MD	PACIFIC BELL DIRECTORY
	CAREY FINANCIAL SERVICES	PACIFIC BELL DIRECTORY
1986	-204 GARY RONALD K INC MD	PACIFIC BELL WHITE PAGES
	LABOR POOL INC	PACIFIC BELL WHITE PAGES
	-203 HALLMARC EMPLOYEE	PACIFIC BELL WHITE PAGES
	GOLDEN GLOVE	PACIFIC BELL WHITE PAGES
	WARDZINSKA JANE MD	PACIFIC BELL WHITE PAGES
	-101 WARDZ 1 NSKA JANE MD	PACIFIC BELL WHITE PAGES
	-202 LEE DENNIS G DOS	PACIFIC BELL WHITE PAGES
	DC NOT EQUIPMENT COMPANY	PACIFIC BELL WHITE PAGES

16380 14TH ST E

Year	Uses	Source
1946	SPINOSA JOHN BARBER	R. L. Polk & Co.

16384 14TH ST E

Year	Uses	Source
1992	LIFETIME MARKETING	PACIFIC BELL DIRECTORY
1986	BUOD INSURANCE	PACIFIC BELL WHITE PAGES
	SERVICES	PACIFIC BELL WHITE PAGES

FINDINGS

16388 14TH ST E

Year	Uses	Source
2000	BEST WAY REALTY	Pacific Bell
1996	MARGE & JERRY S LOAN CO	PACIFIC BELL DIRECTORY
1992	SPLENDID NAILS II	PACIFIC BELL DIRECTORY
1986	ANN S DANCE WORKSHOP	PACIFIC BELL WHITE PAGES

16390 14TH ST E

Year	Uses	Source
2000	LUNA & LUNA INSURANCE SERVICES	Pacific Bell
1996	LUNA & LUNA INSURANCE SERVICES	PACIFIC BELL DIRECTORY
1986	A-1 DANCE & THEATRICAL	PACIFIC BELL WHITE PAGES

16392 14TH ST E

Year	Uses	Source
2000	MILLENNIM PIZZA	Pacific Bell
1996	HARRIETT S	PACIFIC BELL DIRECTORY
1992	FRANKIE S HOT DOGS CHICAGO STYLE	PACIFIC BELL DIRECTORY
1986	CIGARETTE STORE THE	PACIFIC BELL WHITE PAGES

16394 14TH ST E

Year	Uses	Source
2000	GRANTS AMERICAN RUGS & CARPET	Pacific Bell
1992	AFFORDABLE COPIER CO	PACIFIC BELL DIRECTORY
1986	APPLE SIGNS	PACIFIC BELL WHITE PAGES

16396 14TH ST E

Year	Uses	Source
2000	SIGNS WONDERS & MIRACLES CHRISTIAN BOOK STORE	Pacific Bell
1996	NICE CLEANERS	PACIFIC BELL DIRECTORY
1992	NICE CLEANERS	PACIFIC BELL DIRECTORY
1986	NICE CLEANERS	PACIFIC BELL WHITE PAGES

16400 14TH ST E

Year	Uses	Source
1940	AUGUSTINE LORENZO GRO	R. L. Polk & Co.

16404 14TH ST E

Year	Uses	Source
1986	SHAKLEE DISTRIBUTOR	PACIFIC BELL WHITE PAGES

FINDINGS

Year	Uses	Source
1986	PATTI S BOOK STORE	PACIFIC BELL WHITE PAGES
1946	PERRY JOS GRO	R. L. Polk & Co.

16408 14TH ST E

Year	Uses	Source
2000	DON S BARBER SHOP	Pacific Bell
1996	DON S BARBER SHOP	PACIFIC BELL DIRECTORY
1992	HOAGY S BARBER SHOP	PACIFIC BELL DIRECTORY
1986	HOAGYS BARBER SHOP	PACIFIC BELL WHITE PAGES
1946	LOPEZ LUCILLE MRS CLO CLNR	R. L. Polk & Co.

16410 14TH ST E

Year	Uses	Source
2000	BAY MOTOR NUMBER ONE RENTAL	Pacific Bell
1996	EAST BAY MOTORS	PACIFIC BELL DIRECTORY
1992	HARRIS MOTORS	PACIFIC BELL DIRECTORY
1986	HARRIS MOTORS	PACIFIC BELL WHITE PAGES
1946	SILVA J A AUTO REPR	R. L. Polk & Co.
	QUINTELL WM USED CARS	R. L. Polk & Co.

16411 14TH ST E

Year	Uses	Source
2000	EDEN MARKET-GROCERY AND LIQUOR	Pacific Bell
	EDEN MEAT	Pacific Bell
1996	EDEN MARKET-GROCERY AND LIQUOR	PACIFIC BELL DIRECTORY
	EDEN MEAT	PACIFIC BELL DIRECTORY
1992	EDEN MARKET-GROCERY AND LIQUOR	PACIFIC BELL DIRECTORY
	EDEN MEAT	PACIFIC BELL DIRECTORY
1986	AND LIQUOR	PACIFIC BELL WHITE PAGES
	MAC S MEATS	PACIFIC BELL WHITE PAGES
	EDEN MARKET-GROCERY	PACIFIC BELL WHITE PAGES

16414 14TH ST E

Year	Uses	Source
1992	E M SERVICES	PACIFIC BELL DIRECTORY
1986	BILL S USED CARS	PACIFIC BELL WHITE PAGES

FINDINGS

16416 14TH ST E

Year	Uses	Source
1946	BROWN & AIRO MACH	R. L. Polk & Co.

16429 14TH ST E

Year	Uses	Source
1946	BAILIFF FEED CO	R. L. Polk & Co.
1940	BAILIFF C P FEED AND FUEL	R. L. Polk & Co.

16440 14TH ST E

Year	Uses	Source
2000	VAUGHAN GREG	Pacific Bell
1996	VAUGHAN GREG	PACIFIC BELL DIRECTORY
1992	ROCKSMITHS THE	PACIFIC BELL DIRECTORY
1986	ROCKSMITHS THE	PACIFIC BELL WHITE PAGES
1946	MARGE S COFFEE SHOP	R. L. Polk & Co.
	LEWIS M H MRS	R. L. Polk & Co.

16446 14TH ST E

Year	Uses	Source
1946	SILVA CHRIS GAS STA	R. L. Polk & Co.

16455 14TH ST E

Year	Uses	Source
2000	5 VALDEZ GUILLERMINA	Pacific Bell

16457 14TH ST E

Year	Uses	Source
1996	8 CHAVEZ ANDY B	PACIFIC BELL DIRECTORY
1992	8 CHAVEZ ANDY B	PACIFIC BELL DIRECTORY
	12 GREEN A E	PACIFIC BELL DIRECTORY

16459 14TH ST E

Year	Uses	Source
1996	21 HUDSON GIRVER	PACIFIC BELL DIRECTORY
	19 WILLIAMS RONALD & JESSIE	PACIFIC BELL DIRECTORY
1992	21 RUSTCHAK DANIEL LCDR	PACIFIC BELL DIRECTORY

16480 14TH ST E

Year	Uses	Source
1946	SCHOUWEILER C J USED CARS	R. L. Polk & Co.

FINDINGS

16485 14TH ST E

Year	Uses	Source
1946	ASHLAND SCHOOL	R. L. Polk & Co.
1940	ASHLAND SCHOOL	R. L. Polk & Co.

16490 14TH ST E

Year	Uses	Source
2000	TAQUERIA SAN JOSE	Pacific Bell
1996	EBB TIDE FAMILY RESTAURANT	PACIFIC BELL DIRECTORY
1992	EBBTIDE RESTAURANT	PACIFIC BELL DIRECTORY
1986	EBB TIDE	PACIFIC BELL WHITE PAGES
1946	HOWARD D J	R. L. Polk & Co.

16496 14TH ST E

Year	Uses	Source
1992	MAMA ELLA S PIZZA	PACIFIC BELL DIRECTORY
1986	MAMA ELLA S PIZZA	PACIFIC BELL WHITE PAGES
1946	HOPKINS EARL AUTO REPR	R. L. Polk & Co.
	PAPPAS GUST GAS STA	R. L. Polk & Co.

16500 14TH ST E

Year	Uses	Source
2000	HA AUTO CARE	Pacific Bell
	QUALITY AUTO DEALER	Pacific Bell
1996	ELDREDGE MOTORS	PACIFIC BELL DIRECTORY
	HA AUTO CARE	PACIFIC BELL DIRECTORY
	A NEAL S WHEELS	PACIFIC BELL DIRECTORY
1992	ELDREDGE MOTORS	PACIFIC BELL DIRECTORY
	D & S AUTO REPAIR	PACIFIC BELL DIRECTORY

163RD AVE

1406 163RD AVE

Year	Uses	Source
1965	NICHOLAS LORETTA	R. L. Polk & Co.
	NICHOLAS ALFRED JR	R. L. Polk & Co.
1960	NICHOLAS LORETTA	Pacific Telephone
	NICHOLAS ALFRED JR	Pacific Telephone
	NICHOLAS ANTHONY	Pacific Telephone

FINDINGS

1407 163RD AVE

Year	Uses	Source
1960	ECHENIQUE CARMEN	Pacific Telephone

1410 163RD AVE

Year	Uses	Source
1960	MARSHALL W C	Pacific Telephone
1946	NICHOLAS J C	R. L. Polk & Co.

1415 163RD AVE

Year	Uses	Source
2002	KRi EGERRichard	R. L. Polk & Co.
	KRi EGERRichard	Haines

1416 163RD AVE

Year	Uses	Source
1965	HERNANDEZ J L	R. L. Polk & Co.
1960	HABBESTAD ARNOLD	Pacific Telephone
	GARCIA LEONARD IVI	Pacific Telephone
	CAMPOS ALFIED	Pacific Telephone
1946	GARCIA LEONARD	R. L. Polk & Co.
	CAMPOS ALF	R. L. Polk & Co.

1418 163RD AVE

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
	XXXX	Haines
1986	DAISEY MAE FLOWERS	PACIFIC BELL WHITE PAGES
1960	PARK LOIS MRS	Pacific Telephone

1421 163RD AVE

Year	Uses	Source
2002	RINGORClanila	R. L. Polk & Co.
	RINGORClanila	Haines
1986	GLLLLO ELALNE	PACIFIC BELL WHITE PAGES
1982	GILLIO ELAINE SAN LEANDRO	Pacific Telephone
1965	HALL JOHN W	R. L. Polk & Co.
1960	GOREE GLADYS	Pacific Telephone
1946	VACANT	R. L. Polk & Co.

FINDINGS

1423 163RD AVE

Year	Uses	Source
2002	GONZALEZRaudel	R. L. Polk & Co.
	GONZALEZRaudel	Haines
2000	GONZALEZ RAUDEL	Pacific Bell

164TH AVE

1403 164TH AVE

Year	Uses	Source
2002	CHUKennelh	R. L. Polk & Co.
	HORIZON COMM	R. L. Polk & Co.
	ASHLAND CENTER	R. L. Polk & Co.
	CTR MAIN OFC SECONDCC	R. L. Polk & Co.
	CHUKennelh	Haines
	HORIZON COMM	Haines
	CTR MAIN OFC SECONDCC	Haines
	ASHLAND CENTER	Haines
1996	HORIZON COMMUNITY CENTER	PACIFIC BELL DIRECTORY
1992	HORIZON SERVICES INC	PACIFIC BELL DIRECTORY
1979	CHIU DORA	Pacific Telephone
1976	K C LANDSCAPE & SPRINKLER SERVICE	R. L. Polk & Co.
1965	WILLIS LENA	R. L. Polk & Co.
1960	WILLIS LENA	Pacific Telephone
1946	WILLIS LENA MRS	R. L. Polk & Co.

1406 164TH AVE

Year	Uses	Source
2002	ROZARIO Gordon T	R. L. Polk & Co.
	POLIJoseph	R. L. Polk & Co.
	ROZARIO Gordon T	Haines
	POLIJoseph	Haines
2000	ROZARIO GORDON T	Pacific Bell
1996	MOORE CHARLES	PACIFIC BELL DIRECTORY
1992	ROZARIO O	PACIFIC BELL DIRECTORY
1986	ROZARLO	PACIFIC BELL WHITE PAGES
1982	ROZARIO O SAN LEANDRO	Pacific Telephone
1975	BARRERA GEO E	Pacific Telephone
1970	BARRERA GEO E SAN LEANDRO	Pacific Telephone Directory

FINDINGS

Year	Uses	Source
1965	JOHNSON RICHARD M	R. L. Polk & Co.
1946	SULLIVAN J A	R. L. Polk & Co.
	AUGUSTINE ELOY	R. L. Polk & Co.

1410 164TH AVE

Year	Uses	Source
2002	TANTeddy	R. L. Polk & Co.
	TANTeddy	Haines
1992	SANTOS EDW	PACIFIC BELL DIRECTORY
1986	SANTOS EDW	PACIFIC BELL WHITE PAGES
1982	SANTOS EDW SAN LEANDRO	Pacific Telephone
1946	NOVADS JOHN	R. L. Polk & Co.

1414 164TH AVE

Year	Uses	Source
1976	COURLAND S L	R. L. Polk & Co.
1965	EDMIASTON MARIE	R. L. Polk & Co.
	COLLIER A MI	R. L. Polk & Co.
	EDMIASTON J W	R. L. Polk & Co.
1960	SELIN H R	Pacific Telephone
1946	SELIN HAROLD	R. L. Polk & Co.
	YOUNG MINNIE MRS	R. L. Polk & Co.

1426 164TH AVE

Year	Uses	Source
2002	ALMDACOFIREEMS	R. L. Polk & Co.
	OFFICES	R. L. Polk & Co.
	OFFICES	Haines
	ALMDACOFIREEMS	Haines

1430 164TH AVE

Year	Uses	Source
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.
1992	ALAMEDA COUNTY FIRE FIGHTERS LOCAL 1428	PACIFIC BELL DIRECTORY
1986	For All Other Purposes	PACIFIC BELL WHITE PAGES
	To Report A Fire Only	PACIFIC BELL WHITE PAGES
	Ashland Fire Dept	PACIFIC BELL WHITE PAGES
1982	ASHLAND FIRE DEPT SAN LEANDRO	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	Ashland Fire Dept	Pacific Telephone
1979	ASHLAND FIRE DEPT SAN LEANDRO	Pacific Telephone
1976	ASHLAND FIRE DEPT SAN LEANDRO	R. L. Polk & Co.
1965	GREEN THIS A	R. L. Polk & Co.
1960	LASSALLE J D	Pacific Telephone
1946	LASSALLE J D	R. L. Polk & Co.
1940	LASSALLE J D	R. L. Polk & Co.

1440 164TH AVE

Year	Uses	Source
1975	FIRE DEPARTMENT	Pacific Telephone
1970	ASHLAND FIRE DEPT SAN LEANDRO	Pacific Telephone Directory
	FIRE DEPARTMENT	Pacific Telephone Directory
1965	ASHLAND FIRE DEPT SAN LEANDRO	R. L. Polk & Co.
1962	Ashland Fire Dept	Pacific Telephone
	Ashland Fire Dept	Pacific Telephone
1955	ASHLAND FIRE DEPT ASHLND	The Pacific Telephone & Telegraph Co.
	FIRE DEPARTMENT	The Pacific Telephone & Telegraph Co.
1946	ASHLAND FIRE DEPT	R. L. Polk & Co.
1940	ASHLAND FIRE DEPT	R. L. Polk & Co.

1444 164TH AVE

Year	Uses	Source
2002	SNOOTY FOX APTS ALOUDI Akeel S	R. L. Polk & Co.
	ALOUDIM	R. L. Polk & Co.
	ASCENCIO Roc IO	R. L. Polk & Co.
	BARRETT Trent L	R. L. Polk & Co.
	CARRAWAYRachelle T	R. L. Polk & Co.
	EDMOND Ta	R. L. Polk & Co.
	EVILSIZOR Kenneth	R. L. Polk & Co.
	JARYENNEHPrecilia O	R. L. Polk & Co.
	OBI BA	R. L. Polk & Co.
	OBUNSE	R. L. Polk & Co.
	RADABAUGH E	R. L. Polk & Co.
	RODRIGUEZLUa V	R. L. Polk & Co.
	SNOOTY FOX APT	R. L. Polk & Co.
	TOE Samson	R. L. Polk & Co.
	TOSCANOAd	R. L. Polk & Co.
	ZAMBRAN	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
2002	SNOOTY FOX APTS ALOUDI Akeel S	Haines
	ALOUDIM	Haines
	ARCE C	Haines
	ASCENCIO Roc IO	Haines
	BARRETT Trent L	Haines
	CARRAWAYRachelle T	Haines
	EDMOND Ta	Haines
	EVILSIZOR Kenneth	Haines
	JARYENNEHPrecilia O	Haines
	OBI BA	Haines
	OBUNSE	Haines
	RADABAUGH E	Haines
	RODRIGUEZLUa V	Haines
	SNOOTY FOX APT	Haines
	TOE Samson	Haines
	TOSCANOAd	Haines
	ZAMBRAN	Haines
2000	102 RADABAUGH EUGENE	Pacific Bell
	104 BALDIVIEZ ROGER E	Pacific Bell
	105 MERCADO MANUEL	Pacific Bell
	108 WHITE B	Pacific Bell
	206 ALOUDI MUSLEH	Pacific Bell
	301 HECHT TONY	Pacific Bell
	403 ASCENCIO ROCIO	Pacific Bell
	404 EDMOND TANESHA	Pacific Bell
	503 BURRELL A D	Pacific Bell
	602 CORUM MARK	Pacific Bell
	703 ARCE CARMEN	Pacific Bell
	703 SNOOTY FOX APARTMENTS	Pacific Bell
	802 GARCIA TERESA MARIA	Pacific Bell
	805 ALOUDI AKEEL S	Pacific Bell
1996	302 CABREANA STEVEN	PACIFIC BELL DIRECTORY
	603 SON STEVE	PACIFIC BELL DIRECTORY
	703 SNOOTY FOX APARTMENTS	PACIFIC BELL DIRECTORY
	709 GARDNER SAMUEL	PACIFIC BELL DIRECTORY
	808 SIKORA KEITH	PACIFIC BELL DIRECTORY
1992	302 CABREANA STEVEN	PACIFIC BELL DIRECTORY
	404 WATKA ALAN S	PACIFIC BELL DIRECTORY

FINDINGS

Year	Uses	Source
1992	703 SNOOTY FOX APARTMENTS	PACIFIC BELL DIRECTORY
	706 VAUGHAN GREG	PACIFIC BELL DIRECTORY
	805 CLARFIELD JOHN	PACIFIC BELL DIRECTORY
	808 SIKORA KEITH	PACIFIC BELL DIRECTORY
	106 HOUY WALTER	PACIFIC BELL DIRECTORY
	108 SENKO MARK	PACIFIC BELL DIRECTORY
1986	-106 JAMES LILLIAN	PACIFIC BELL WHITE PAGES
	-107 MILLER MICHAEL & TARA	PACIFIC BELL WHITE PAGES
	-201 BAYACK CHRISTOPHER C	PACIFIC BELL WHITE PAGES
	-202 BLNGHARN LAWRENCE R	PACIFIC BELL WHITE PAGES
	-208 PEAVIE SUSAN P	PACIFIC BELL WHITE PAGES
	-209 ROACH EDDIE	PACIFIC BELL WHITE PAGES
	-301 DUGAN RICHARD J	PACIFIC BELL WHITE PAGES
	-402 ABRAMOWLLZ PAUL G	PACIFIC BELL WHITE PAGES
	-403 GREELY STEVEN	PACIFIC BELL WHITE PAGES
	-404 MONIGHETTI RICHARD	PACIFIC BELL WHITE PAGES
	-501 EGAN MICHAEL T	PACIFIC BELL WHITE PAGES
	-604 JOHNSON RALPH	PACIFIC BELL WHITE PAGES
	-704 LOCKE TERRY S	PACIFIC BELL WHITE PAGES
	-705 ROBINSON KEVIN J	PACIFIC BELL WHITE PAGES
	-706 BAPTISTE KENNETH	PACIFIC BELL WHITE PAGES
	-805 BARBER LISA	PACIFIC BELL WHITE PAGES
	(CONTD)	PACIFIC BELL WHITE PAGES
	-806 ZISCHKE ALAN F	PACIFIC BELL WHITE PAGES
1982	BARRAS CARLOS SAN LEANDRO	Pacific Telephone
	BAUGHMAN NORMAN SAN LEANDRO	Pacific Telephone
	BROUNS A SAN LEANDRO	Pacific Telephone
	CARO SERGIO R SAN LEANDRO	Pacific Telephone
	CARRISOSA LARRY SAN LEANDRO	Pacific Telephone
	FRITZ T SAN LEANDRO	Pacific Telephone
	GALLEGOS W J SAN LEANDRO	Pacific Telephone
	HALLETT ROBT E SAN LEANDRO	Pacific Telephone
	KOBE C L SAN LEANDRO	Pacific Telephone
	LEWIS M M SAN LEANDRO	Pacific Telephone
	MCDONALD BOB SAN LEANDRO	Pacific Telephone
	MONIGHETTI RICHARD SAN LEANDRO	Pacific Telephone
	PEAVLE SUSAN P SAN LEANDRO	Pacific Telephone

FINDINGS

Year	Uses	Source
1982	ROACH EDDIE SAN LEANDRO	Pacific Telephone
	ROSSBERG ANDREAS SAN LEANDRO	Pacific Telephone
	SOULES JONATHAN S SAN LEANDRO	Pacific Telephone
	STEVENSON B SAN LEANDRO	Pacific Telephone
	SULLIVAN M H SAN LEANDRO	Pacific Telephone
	TERADA KEIJU SAN LEANDRO	Pacific Telephone
1979	ADZA MICHAEL A	Pacific Telephone
	ALMERAZ R	Pacific Telephone
	BAUGHMAN NORMAN	Pacific Telephone
	BUSH S	Pacific Telephone
	CERVANTES J M	Pacific Telephone
	DUNCAN C A	Pacific Telephone
	FAGUNDES MIKE	Pacific Telephone
	FRANUSICH L	Pacific Telephone
	GALLSGOS WJ	Pacific Telephone
	HILDERBRAND HOWARD	Pacific Telephone
	LEWIS M M	Pacific Telephone
	NELSON L E	Pacific Telephone
	PHILLIP PAMELA J	Pacific Telephone
	POFF V	Pacific Telephone
1976	MESSERSCHMIDT JAN SAN LEANDRO 27833	R. L. Polk & Co.
	BESSEY D C	R. L. Polk & Co.
	CERVANTES J M	R. L. Polk & Co.
	CHAPPEL RICHARD	R. L. Polk & Co.
	COTE MONICA	R. L. Polk & Co.
	DOAK M A	R. L. Polk & Co.
	GIBB PHILIP J	R. L. Polk & Co.
	LOWE DONALD K	R. L. Polk & Co.
	MOLE CHI ISTINE L	R. L. Polk & Co.
	NELSON E	R. L. Polk & Co.
	JACKSON CINDY	R. L. Polk & Co.
	AMBRECHIT W M	R. L. Polk & Co.
	ANDRASZ STANLEY K	R. L. Polk & Co.
1975	AMERICAN ROOFING CO	Pacific Telephone

1446 164TH AVE

Year	Uses	Source
1960	OHIER C A	Pacific Telephone

1450 164TH AVE

Year	Uses	Source
1965	MARTUS LEE C	R. L. Polk & Co.
	BEYELIA JANET E	R. L. Polk & Co.
1960	OSBORN C H	Pacific Telephone
1955	SILVA JOE P SAN LEANDRO	The Pacific Telephone & Telegraph Co.
1946	SILVA J P	R. L. Polk & Co.
1945	SILVA JOE P R SAN LEANDRO	The Pacific Telephone & Telegraph Co.
1940	RIDLEY V L	R. L. Polk & Co.

165TH AVE

1403 165TH AVE

Year	Uses	Source
1979	HARRIS FRANZ M	Pacific Telephone

BLANCO

16328 BLANCO

Year	Uses	Source
2002	OCOELHOBrian	R. L. Polk & Co.

16329 BLANCO

Year	Uses	Source
2002	FERRE 0 RAO	R. L. Polk & Co.

16336 BLANCO

Year	Uses	Source
2002	BLANESJosep A	R. L. Polk & Co.
	BLANCOOscar	R. L. Polk & Co.

16344 BLANCO

Year	Uses	Source
2002	OU 9 UOUEKennet O	R. L. Polk & Co.

16352 BLANCO

Year	Uses	Source
2002	SOUZAJos J	R. L. Polk & Co.

FINDINGS

16357 BLANCO

Year	Uses	Source
2002	KUERTH Henry J	R. L. Polk & Co.

16365 BLANCO

Year	Uses	Source
2002	RIE	R. L. Polk & Co.

16366 BLANCO

Year	Uses	Source
2002	BLACKAnelony	R. L. Polk & Co.

16370 BLANCO

Year	Uses	Source
2002	VILLALVAZO	R. L. Polk & Co.
	VILLAVAZ	R. L. Polk & Co.

16382 BLANCO

Year	Uses	Source
2002	BROWN Vernon L	R. L. Polk & Co.

16383 BLANCO

Year	Uses	Source
2002	OCASTANHA An	R. L. Polk & Co.

16387 BLANCO

Year	Uses	Source
2002	WATSONRobert 510 4 B	R. L. Polk & Co.

16391 BLANCO

Year	Uses	Source
2002	90 YDGamell	R. L. Polk & Co.

16394 BLANCO

Year	Uses	Source
2002	CENTONIGarrell	R. L. Polk & Co.
	CLARKSON Carl	R. L. Polk & Co.
	CLARKSON Carl	R. L. Polk & Co.

16398 BLANCO

Year	Uses	Source
2002	BERNALLu	R. L. Polk & Co.

Year	Uses	Source
2002	PARAMOJose	R. L. Polk & Co.

BLANCO DR

16329 BLANCO DR

Year	Uses	Source
1986	FERREIRA	PACIFIC BELL WHITE PAGES

16337 BLANCO DR

Year	Uses	Source
1986	HOLLY LLOYD	PACIFIC BELL WHITE PAGES

16345 BLANCO DR

Year	Uses	Source
1986	COELHO JOE	PACIFIC BELL WHITE PAGES

16352 BLANCO DR

Year	Uses	Source
1986	SOUZA JOS J	PACIFIC BELL WHITE PAGES

16357 BLANCO DR

Year	Uses	Source
1986	KUERTH HENRY J	PACIFIC BELL WHITE PAGES

16365 BLANCO DR

Year	Uses	Source
1986	IRLE KOZUL	PACIFIC BELL WHITE PAGES

16370 BLANCO DR

Year	Uses	Source
1986	YONKE FRANK	PACIFIC BELL WHITE PAGES

16382 BLANCO DR

Year	Uses	Source
1986	BROWN VERNON L	PACIFIC BELL WHITE PAGES

16383 BLANCO DR

Year	Uses	Source
1986	CASTANHA ANTONIO	PACIFIC BELL WHITE PAGES

FINDINGS

16387 BLANCO DR

Year	*Uses*	*Source*
1986	MOTTA ISABEL	PACIFIC BELL WHITE PAGES

BLANCO ST

16328 BLANCO ST

Year	*Uses*	*Source*
2002	OCOELHOBrian	Haines
1965	DANIELSON GLADYS R	R. L. Polk & Co.
1960	DANLELSON GLADYS R	Pacific Telephone

16329 BLANCO ST

Year	*Uses*	*Source*
2002	FERRE 0 RAO	Haines
2000	FERREIRA O	Pacific Bell
1996	FERREIRA O	PACIFIC BELL DIRECTORY
1992	FERREIRA O	PACIFIC BELL DIRECTORY
1982	FERREIRA O SAN LEANDRO	Pacific Telephone
1979	FERREIRA A F	Pacific Telephone
1976	FERREIRA A F	R. L. Polk & Co.
1973	FERREI RA A F	Pacific Telephone
1965	FERRERIA FERRIERA	R. L. Polk & Co.
1950	DURRER FRANK MRS R	The Pacific Telephone & Telegraph Co.

16336 BLANCO ST

Year	*Uses*	*Source*
2002	BLANCOOscar	Haines
	BLANESJosep A	Haines
2000	RODRIGUEZ MARTIN	Pacific Bell
1996	RODRIGUEZ MARTIN	PACIFIC BELL DIRECTORY

16337 BLANCO ST

Year	*Uses*	*Source*
2000	ALGIN R	Pacific Bell
1996	ALGIN R	PACIFIC BELL DIRECTORY
1992	ALGIN R	PACIFIC BELL DIRECTORY
1982	HOLLY LLOYD D SAN LEANDRO	Pacific Telephone
1976	ORLANDO CLARA	R. L. Polk & Co.
1973	ORLANDO CLARA	Pacific Telephone
1965	EAKLE SHARON E	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1960	JENICKE HELEN	Pacific Telephone
1955	JENICKE VERNERED H SAN LEANDRO	The Pacific Telephone & Telegraph Co.

16344 BLANCO ST

Year	Uses	Source
2002	OU 9 UOUEKennet O	Haines
1960	ADDISON OW	Pacific Telephone

16345 BLANCO ST

Year	Uses	Source
2000	COELHO JOE	Pacific Bell
1996	COELHO JOE	PACIFIC BELL DIRECTORY
1992	COELHO JOE	PACIFIC BELL DIRECTORY
1982	COELHO JOE SAN LEANDRO	Pacific Telephone
1979	COELHO JOE	Pacific Telephone
1965	BROOKS FRED	R. L. Polk & Co.
1960	BROOKS FRED	Pacific Telephone

16352 BLANCO ST

Year	Uses	Source
2002	SOUZAJos J	Haines
2000	SOUZA JOS J	Pacific Bell
1996	SOUZA JOS J	PACIFIC BELL DIRECTORY
1992	SOUZA JOS J	PACIFIC BELL DIRECTORY
1991	Souza Jos J	PACIFIC BELL WHITE PAGES
	Souza L	PACIFIC BELL WHITE PAGES
	Souza L	PACIFIC BELL WHITE PAGES
	Souza L S	PACIFIC BELL WHITE PAGES
	Souza Lawrence	PACIFIC BELL WHITE PAGES
1986	Souza Jos J	PACIFIC BELL WHITE PAGES
	Souza Jos R	PACIFIC BELL WHITE PAGES
1982	SOUZA JOS J SAN LEANDRO	Pacific Telephone
1980	Souza Jos J	Pacific Telephone
1970	SOUZA JOS J SAN LEANDRO	Pacific Telephone Directory
1962	Souza Jos J	Pacific Telephone
1960	SOUZA JOS J	Pacific Telephone
1950	RANDALL LW R	The Pacific Telephone & Telegraph Co.

FINDINGS

16357 BLANCO ST

Year	Uses	Source
2002	KUERTH Henry J	Haines
2000	KUERTH HENRY J	Pacific Bell
1996	KUERTH HENRY J	PACIFIC BELL DIRECTORY
1992	KUERTH HENRY J	PACIFIC BELL DIRECTORY
1973	LATO FRANK C	Pacific Telephone
1965	NAVE ROY E	R. L. Polk & Co.

16365 BLANCO ST

Year	Uses	Source
2002	1 RIE	Haines
2000	IRIE KOZUI	Pacific Bell
1996	IRIE KOZUI	PACIFIC BELL DIRECTORY
1992	IRIE KOZUI	PACIFIC BELL DIRECTORY
1982	IRIE KOZUI SAN LEANDRO	Pacific Telephone
1979	IRIE KOZUI	Pacific Telephone
1976	IRIE KOZUI	R. L. Polk & Co.
1973	IRIE KOZUI	Pacific Telephone

16366 BLANCO ST

Year	Uses	Source
2002	BLACKAnelony	Haines
1970	HANSON VERNON O SAN LEANDRO	Pacific Telephone Directory
1965	TOTARO MARIE H	R. L. Polk & Co.
1960	GEYER ROBERTA MRS	Pacific Telephone

16370 BLANCO ST

Year	Uses	Source
2002	VILLALVAZO	Haines
	VILLAVAZ	Haines
2000	VILLALVAZO JESUS	Pacific Bell
	VILLAVAZO RAUL	Pacific Bell
1996	YONKE FRANK	PACIFIC BELL DIRECTORY
1992	YONKE FRANK	PACIFIC BELL DIRECTORY
1991	Yonke Frank	PACIFIC BELL WHITE PAGES
1986	Vonke Frank	PACIFIC BELL WHITE PAGES
1980	Yonke Frank	Pacific Telephone
1970	YONKE FRANK SAN LEANDRO	Pacific Telephone Directory
1965	YCNKE FRANK	R. L. Polk & Co.

FINDINGS

Year	Uses		Source
1960	SHERER WALTER R		Pacific Telephone
1955	SHERER WALTER R	SAN LEANDRO	The Pacific Telephone & Telegraph Co.

16371 BLANCO ST

Year	Uses	Source
1965	KING VERNELLE	R. L. Polk & Co.
	KING EVERETT R	R. L. Polk & Co.

16382 BLANCO ST

Year	Uses		Source
2002	BROWN Vernon L		Haines
2000	BROWN VERNON L		Pacific Bell
1996	BROWN VERNON L		PACIFIC BELL DIRECTORY
1992	BROWN VERNON L		PACIFIC BELL DIRECTORY
1982	BROWN VERNON L	SAN LEANDRO	Pacific Telephone
1979	BROWN VERNON L		Pacific Telephone
1976	BROWN VERNON L		R. L. Polk & Co.
1973	BROWN VERNON L		Pacific Telephone
1960	BROWN VERNON L		Pacific Telephone

16383 BLANCO ST

Year	Uses		Source
2002	OCASTANHA An		Haines
2000	CASTANHA ANTONIO		Pacific Bell
1996	CASTANHA ANTONIO		PACIFIC BELL DIRECTORY
1992	CASTANHA ANTONIO		PACIFIC BELL DIRECTORY
1982	CASTANHA ANTONIO	SAN LEANDRO	Pacific Telephone
1979	CASTANHA ANTONIO		Pacific Telephone
1976	CASTANHA ANTONIO		R. L. Polk & Co.
1973	DIAS MERCEDES		Pacific Telephone
1965	SAUGAR M G		R. L. Polk & Co.
1960	SAUGAR M G		Pacific Telephone

16387 BLANCO ST

Year	Uses		Source
2002	WATSONRobert 510 4 B		Haines
1996	MOTTA ISABEL		PACIFIC BELL DIRECTORY
1992	MOTTA ISABEL		PACIFIC BELL DIRECTORY
1982	MOTTA ISABEL	SAN LEANDRO	Pacific Telephone
1979	MATTA ELROY		Pacific Telephone

Year	Uses	Source
1976	MOTTA ELROY	R. L. Polk & Co.
1965	HENDERSON REINO	R. L. Polk & Co.
1960	HENDERSON REINO	Pacific Telephone

16391 BLANCO ST

Year	Uses	Source
2002	90 YDGamell	Haines
1976	ALESSI GASPER	R. L. Polk & Co.
1973	ALESSL GASPER	Pacific Telephone
1965	BTIRMEISTER JUERGEN R	R. L. Polk & Co.
1960	LEE EDW C	Pacific Telephone

16394 BLANCO ST

Year	Uses	Source
2002	CLARKSON Carl	Haines
	CLARKSON Carl	Haines
	CENTONIGarrell	Haines
2000	CLARKSON CARL	Pacific Bell
	CLARKSON CARL	Pacific Bell
1996	CLARKSON CARL	PACIFIC BELL DIRECTORY
1976	MARTENS THOMAS H	R. L. Polk & Co.
1973	MARTENS THOMAS H	Pacific Telephone
1960	GARDNER VERNOL F	Pacific Telephone

16398 BLANCO ST

Year	Uses	Source
2002	BERNALLu	Haines
	PARAMOJose	Haines
2000	BERNAL LUZ MARIA	Pacific Bell
1960	SMITH ARETA J	Pacific Telephone

DELANO

1001 DELANO

Year	Uses	Source
2002	PAOILLAJosa	R. L. Polk & Co.

1024 DELANO

Year	Uses	Source
2002	GOUVEIAJase	R. L. Polk & Co.

FINDINGS

1047 DELANO

Year	*Uses*	*Source*
2002	JENKINSS	R. L. Polk & Co.

1052 DELANO

Year	*Uses*	*Source*
2002	SKAWABAT	R. L. Polk & Co.

1085 DELANO

Year	*Uses*	*Source*
2002	ELZOFRIMorsn SAVER 18 EMKT	R. L. Polk & Co.

1086 DELANO

Year	*Uses*	*Source*
2002	BRAGATheodore	R. L. Polk & Co.

983 DELANO

Year	*Uses*	*Source*
2002	VANGUARD L	R. L. Polk & Co.

986 DELANO

Year	*Uses*	*Source*
2002	ANDO Rie	R. L. Polk & Co.

993 DELANO

Year	*Uses*	*Source*
2002	XXXX	R. L. Polk & Co.

DELANO CT

1003 DELANO CT

Year	*Uses*	*Source*
1960	REILLY JACK	Pacific Telephone

1023 DELANO CT

Year	*Uses*	*Source*
1960	PLANCHON LE	Pacific Telephone

1024 DELANO CT

Year	*Uses*	*Source*
1960	CURTO PHILIP	Pacific Telephone

986 DELANO CT

Year	Uses	Source
1979	ANDO RIE	Pacific Telephone

993 DELANO CT

Year	Uses	Source
1973	BONRMAN H	Pacific Telephone

DELANO ST

1001 DELANO ST

Year	Uses	Source
2002	PAOILLAJosa	Haines
1982	SMITH BRUCE G SAN LORENZO	Pacific Telephone
1970	DELLA-SANTA VIVIAN E SAN LEANDROZ	Pacific Telephone Directory

1003 DELANO ST

Year	Uses	Source
1976	DELLA SANTA V E	R. L. Polk & Co.

1024 DELANO ST

Year	Uses	Source
2002	0 GOUVEIAJase	Haines
1976	DE MELLO KENNETH L	R. L. Polk & Co.
1973	MADDEN L B	Pacific Telephone

1025 DELANO ST

Year	Uses	Source
1960	COLOMBINI RICHARD D	Pacific Telephone
	COLOMBINI MARY A	Pacific Telephone

1047 DELANO ST

Year	Uses	Source
2002	JENKINSS	Haines
1962	Haskell V J	Pacific Telephone

1052 DELANO ST

Year	Uses	Source
2002	SKAWABAT	Haines
1973	KAWABATA YUJI	Pacific Telephone

FINDINGS

1085 DELANO ST

Year	Uses	Source
2002	ELZOFRIMorsn 00 SAVER 18 EMKT	Haines
1982	SAVE RITE MKT SAN LORENZO	Pacific Telephone
1960	J& J MARKET	Pacific Telephone

1086 DELANO ST

Year	Uses	Source
2002	BRAGATheodore	Haines
1982	GONSALVES H SAN LORENZO	Pacific Telephone
1979	GONSALVES H	Pacific Telephone
1976	GONSALVES H	R. L. Polk & Co.
1973	GONSALVES H	Pacific Telephone
1960	GONSALVES H	Pacific Telephone

983 DELANO ST

Year	Uses	Source
2002	VANGUARD L	Haines
1982	MEYER R SAN LORENZO	Pacific Telephone
1976	CLUCK JAMES A	R. L. Polk & Co.
1973	ALTIERI MIKE L	Pacific Telephone

986 DELANO ST

Year	Uses	Source
2002	9 ANDO Rie	Haines
1982	ANDO RIE SAN LORENZO	Pacific Telephone
1960	ANDO MINORU	Pacific Telephone

991 DELANO ST

Year	Uses	Source
1960	MIOTKE JOHN E	Pacific Telephone

993 DELANO ST

Year	Uses	Source
2002	XXXX	Haines
1982	GOEDERT HAROLD SAN LORENZO	Pacific Telephone
1979	GOEDERT HAROLD	Pacific Telephone
1960	DE MOTTO DONALD	Pacific Telephone

FINDINGS

E 14TH

16386 E 14TH

Year	Uses	Source
1991	A i Dance & Theatrical	PACIFIC BELL WHITE PAGES

E 14TH ST

16301 E 14TH ST

Year	Uses	Source
2002	BHOLLANDJohn	R. L. Polk & Co.
	DANS AUTOM	R. L. Polk & Co.
1991	HOLLAN D JACK S R OIL COMPAN Y	PACIFIC BELL WHITE PAGES
1982	BAY AREA REPAIR SAN LEANDRO	Pacific Telephone
	FACTORY SUNROOFS SAN LEANDRO	Pacific Telephone
	HOLLAND JACK SR OIL COMPANY SAN LEANDRO	Pacific Telephone
	ROSE GEORGE L TRUCKING SAN LEANDRO	Pacific Telephone
1976	HOLLAND JACK OIL CO	R. L. Polk & Co.
	HOLLAND JACK & SON	R. L. Polk & Co.
1970	HOLLAND JACK OIL CO SAN LEANDRO	Pacific Telephone Directory
1965	JACK HOLLAND OIL CO	R. L. Polk & Co.
	TOMMY S AUTO PAINTING	R. L. Polk & Co.
1962	Wilshire Oil Co distr	Pacific Telephone
1960	WILSHIRE OIl COAGNT	Pacific Telephone
	JACK HOLLAND OIL CO	Pacific Telephone

16304 E 14TH ST

Year	Uses	Source
2002	DULCERIAL	R. L. Polk & Co.
	NUMBEROTRES	R. L. Polk & Co.
	TEAVKim	R. L. Polk & Co.
1965	MANNY S MARKET	R. L. Polk & Co.
1960	MANNY S MARKET	Pacific Telephone

16305 E 14TH ST

Year	Uses	Source
2002	HOLLAND Barbana V UNITOAUTOC	R. L. Polk & Co.
1982	MIRACLE MOTOR SAN LEANDRO	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	Lightning Auto Sales	Pacific Telephone
1979	LIGHTNING AUTO SALES	Pacific Telephone
1975	LIGHTING AUTO SALES	Pacific Telephone

16306 E 14TH ST

Year	Uses	Source
2002	CASHING	R. L. Polk & Co.

16308 E 14TH ST

Year	Uses	Source
2002	DOMINOSPIZZ	R. L. Polk & Co.
1960	ROWLEY RICHARD C DR DC	Pacific Telephone
1950	LESLIE WOODROW W R	The Pacific Telephone & Telegraph Co.

16310 E 14TH ST

Year	Uses	Source
2002	CLNRS&TLRS	R. L. Polk & Co.

16312 E 14TH ST

Year	Uses	Source
1965	AIDA S HAIR STYLISTS	R. L. Polk & Co.
1960	STYLES & SMILES HAIR STYLISTS	Pacific Telephone

16314 E 14TH ST

Year	Uses	Source
2002	LAUNDERLAND	R. L. Polk & Co.
	SANLE	R. L. Polk & Co.

16316 E 14TH ST

Year	Uses	Source
1965	NICHOLAS ALFRETD	R. L. Polk & Co.
1960	NICHOLAS ALFRED	Pacific Telephone

16326 E 14TH ST

Year	Uses	Source
1975	NORTON MOTORS	Pacific Telephone
1970	NORTON MOTORS SAN LEANDRO	Pacific Telephone Directory
1965	NORTON MOTORS	R. L. Polk & Co.
	RAPID TV SERV	R. L. Polk & Co.
1962	NORTON MOTORS	Pacific Telephone
1960	NORTON MOTORS	Pacific Telephone

FINDINGS

16330 E 14TH ST

Year	Uses	Source
2002	BEPLINThomas	R. L. Polk & Co.
1986	NEARLY NEW SHOP	Pacific Bell
	Nearly New Shop	PACIFIC BELL WHITE PAGES
1982	NEARLY NEW SHOP SAN LEANDRO	Pacific Telephone
1980	Nearly New Shop	Pacific Telephone
1979	NEARLY NEW SHOP	Pacific Telephone
1976	NEARLY NEW SHOP	R. L. Polk & Co.
1975	NEARLY NEW SHOP	Pacific Telephone
1970	NEARLY NEW SHOP SAN LEANDRO	Pacific Telephone Directory
1965	NEARLY NEW SHOP	R. L. Polk & Co.
1962	Nearly New Shop	Pacific Telephone
1960	NEARLY NEW SHOP	Pacific Telephone
1955	CENTRAL HARDWARE SAN LEANDRO	The Pacific Telephone & Telegraph Co.

16335 E 14TH ST

Year	Uses	Source
2002	HOLLAND Barbara	R. L. Polk & Co.
1982	BARNETTE LEE SAN LEANDRO	Pacific Telephone
1965	FINLEY JOHN S	R. L. Polk & Co.
1960	JACOBSEN HAZEL E	Pacific Telephone

16338 E 14TH ST

Year	Uses	Source
2002	EPLIN Thomas	R. L. Polk & Co.
	EPLIN S TOM ATMTV CT	R. L. Polk & Co.
	BDYSHP TOMMYSUSE	R. L. Polk & Co.
1991	Super Shops Automotive Performance Centers	PACIFIC BELL WHITE PAGES
1980	East Bay AMC Jeep	Pacific Telephone
1979	EAST BAY AMC JEEP	Pacific Telephone
1976	EAST BAY AMC JEEP	R. L. Polk & Co.
	EAST BAY AMC JEEP	R. L. Polk & Co.
1975	EAST BAY AMC-JEEP	Pacific Telephone
1970	U S AUTO LEASING AND RENTAL INC SAN LEANDRO	Pacific Telephone Directory
	EAST BAY RAMBLER INC SAN LEANDRO	Pacific Telephone Directory
1965	EAST BAY RAMBLER INC	R. L. Polk & Co.
1962	EAST BAY RAMBLER INC	Pacific Telephone

Year	Uses	Source
1960	EAST BAY RAMBLER ING	Pacific Telephone
	BOYETTE & FRANK SEE EAST BAY RAMBLER INC	Pacific Telephone

16343 E 14TH ST

Year	Uses	Source
2002	SVALENCIA Bulmaro	R. L. Polk & Co.
1982	HALFWAY CLUB THE SAN LEANDRO	Pacific Telephone
	HALF WAY CLUB SAN LEANDRO	Pacific Telephone
1979	HALF WAY CLUB	Pacific Telephone
	HALFWAY CLUB THE	Pacific Telephone
1976	HALFWAY CLUB THE	R. L. Polk & Co.
	HALF WAY CLUB	R. L. Polk & Co.
1965	FAIRWAY TV	R. L. Polk & Co.

16348 E 14TH ST

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.

16349 E 14TH ST

Year	Uses	Source
2002	ROJAS Beaomin	R. L. Polk & Co.
	NEIRAOscar	R. L. Polk & Co.
	ESPIRITUAL NATL GLASSTINTING	R. L. Polk & Co.
1982	DEL RIO CUSTOMS SAN LEANDRO	Pacific Telephone
1979	DEL RIO CUSTOMS	Pacific Telephone
1976	DEL RIO CUSTOMS	R. L. Polk & Co.

16360 E 14TH ST

Year	Uses	Source
1960	STOFLET S DO IT YOURSELF UPHOLSTERING	Pacific Telephone

16375 E 14TH ST

Year	Uses	Source
2002	BAYSIGNS	R. L. Polk & Co.
	GAPHOORAbdu l	R. L. Polk & Co.
	OCHOAM	R. L. Polk & Co.
1965	PAREDERO MANUEL	R. L. Polk & Co.
1960	PAREDERO MANUEL	Pacific Telephone

FINDINGS

16378 E 14TH ST

Year	Uses	Source
2002	COMMUNITY DEVLP ALLSTATE INS SALES	R. L. Polk & Co.
	CAIRESGARY	R. L. Polk & Co.
	DAVIS STREET	R. L. Polk & Co.
	COMMUNITY CENTER	R. L. Polk & Co.
	EAST BAY PARALEGAL	R. L. Polk & Co.
	SERVICES TAVIS EDWARD	R. L. Polk & Co.
1991	San Leandro	PACIFIC BELL WHITE PAGES
	Gary Ronald K Inc MD	PACIFIC BELL WHITE PAGES
	Hallmarc Services Inc	PACIFIC BELL WHITE PAGES
	Lee Dennis G DDS	PACIFIC BELL WHITE PAGES
	Lee Dennis H	PACIFIC BELL WHITE PAGES
	Lee Dennis J	PACIFIC BELL WHITE PAGES
	Lee Dennyan	PACIFIC BELL WHITE PAGES
	Lee Derek C & Robert C	PACIFIC BELL WHITE PAGES
	From East Bay Telephones Call	PACIFIC BELL WHITE PAGES
	Ware A	PACIFIC BELL WHITE PAGES
1986	Gary Ronald K Inc MD	PACIFIC BELL WHITE PAGES
	i Lee Dennis G DDS	PACIFIC BELL WHITE PAGES
	i Lee Dennis H	PACIFIC BELL WHITE PAGES
	Wardzinska Jane MD	PACIFIC BELL WHITE PAGES
	From East Bay Telephones Call	PACIFIC BELL WHITE PAGES
	Ware A	PACIFIC BELL WHITE PAGES
	Hallmarc Employee Labor Pool Inc	PACIFIC BELL WHITE PAGES
1982	DESCO SAN LEANDRO	Pacific Telephone
	GARY RONALD K INC MD SAN LEANDRO	Pacific Telephone
	GOODMAN MARCO H MD SAN LEANDRO	Pacific Telephone
	K E A ELECTRONICS SAN LEANDRO	Pacific Telephone
	LEE DENNIS G DDS SAN LEANDRO	Pacific Telephone
	LEO S MEDICAL CENTER PHARMACY SAN LEANDRO	Pacific Telephone
	PHOENIX SYSTEMS SAN LEANDRO	Pacific Telephone
1980	Gary Ronald K Inc MD	Pacific Telephone
	Goodman Marco H MD	Pacific Telephone
	Lee Dennis G DDS	Pacific Telephone
	Overeaters Anon Imous	Pacific Telephone
1979	CHAPNSCK ROBERT MD	Pacific Telephone

FINDINGS

Year	Uses	Source
1979	GARY RONALD K INC MD	Pacific Telephone
	GOODMAN MARCO H MD	Pacific Telephone
	LEE DENNIS G DOS	Pacific Telephone
	LEO S MEDICAL CENTER PHARMACY	Pacific Telephone
	OVEREATERS ANONYMOUS	Pacific Telephone
1976	GARY RONALD K INC MD	R. L. Polk & Co.
	KOHN RALP B MD	R. L. Polk & Co.
	LEE DENNIS G DDS	R. L. Polk & Co.
	LEO S MEDICAL CENTER PHARMACY	R. L. Polk & Co.
1975	GARY RONALD K MD	Pacific Telephone
	GOODMAN MARCO H MD	Pacific Telephone
1970	GARY RONALD K MD SAN LEANDRO	Pacific Telephone Directory
	GOODMAN MARCO H MD SAN LEANDRO	Pacific Telephone Directory
	LEE DENNIS G DDS SAN LEANDRO	Pacific Telephone Directory
	TANGNEY CONSTRUCTION CO SAN LEANDRO	Pacific Telephone Directory
	TANHER REALTY SAN LEANDRO	Pacific Telephone Directory
	TURAIDS OJARS MD SAN LEANDRO	Pacific Telephone Directory
1965	GOODMAN MARCO H MD	R. L. Polk & Co.
	LEE DENNIS G DOS	R. L. Polk & Co.
	LEVY SYDNEY B DR CHLRPDST	R. L. Polk & Co.
	NORMAN N ALLEN MD	R. L. Polk & Co.
	SCLIONBERG LEONARD A MD	R. L. Polk & Co.
1962	Goodman Marco H MD	Pacific Telephone
	Huzieff Leo MD	Pacific Telephone
	Huzieff Leo MD	Pacific Telephone
	K&L Pharmacy	Pacific Telephone
	Hayward Office	Pacific Telephone
1960	ABEL MARTIN S MD	Pacific Telephone
	K & L PHARMACY	Pacific Telephone
	LEVY SYDNEY B DR CLIIRPDST	Pacific Telephone
	ROSS WILLARD B MD	Pacific Telephone
	HUZLEFF LEO MD	Pacific Telephone

16380 E 14TH ST

Year	Uses	Source
1960	HOMEOWNERS T V	Pacific Telephone

FINDINGS

16384 E 14TH ST

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
1991	Budd K	PACIFIC BELL WHITE PAGES
	BUDD IN S URAN CE S E RVICE S	PACIFIC BELL WHITE PAGES
	Budd J & D	PACIFIC BELL WHITE PAGES
1986	BUDD IN S URAN CE S E RVICE S	PACIFIC BELL WHITE PAGES
1982	CHAYLYN ENTERPRISES SAN LEANDRO	Pacific Telephone
1976	CABALLERO JAMES R DR CHLRPRCTR	R. L. Polk & Co.
1960	PUPL IE QTLRDLE	Pacific Telephone

16386 E 14TH ST

Year	Uses	Source
1976	DENTAL HEALTH CENTER	R. L. Polk & Co.
	HATTON M D DDS DENTAL HEALTH CENTER	R. L. Polk & Co.
1933	FOOR LEROY A DEPT MGR MACMARR STORES R	R. L. Polk & Co.

16388 E 14TH ST

Year	Uses	Source
2002	SKY COMMUNICATIONS	R. L. Polk & Co.
1982	TAPPAN KITCHEN CENTER SAN LEANDRO	Pacific Telephone
	KITCHEN CENTERS INC SAN LEANDRO	Pacific Telephone
1980	TAPPAN KITCHEN CENTER	Pacific Telephone
1976	K I TCHEN CENTERS INC	R. L. Polk & Co.
1970	TAPPAN KITCHEN CENTER SAN LEANDRO	Pacific Telephone Directory
1965	JACK GESLER S TAPPAN KITCHEN CENTER	R. L. Polk & Co.

16390 E 14TH ST

Year	Uses	Source
2002	LUNA&LUNA	R. L. Polk & Co.
	INSURANCE SERVICES	R. L. Polk & Co.
1965	YA A TEH GIFT SHOP INDIAN JWLRY & NAVAJO RUGS	R. L. Polk & Co.
1962	Krazy Klocks used cars	Pacific Telephone
1960	KRAZY KLOCK S USED CARS	Pacific Telephone

FINDINGS

16392 E 14TH ST

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
1982	UBI SAN LEANDRO	Pacific Telephone
	UNITED BUSINESS INVESTMENTS INC SAN LEANDRO	Pacific Telephone
1965	HOUSE OF DAVID HAIR STYLES	R. L. Polk & Co.

16394 E 14TH ST

Year	Uses	Source
1986	APPLE S IGN S	PACIFIC BELL WHITE PAGES
1970	MURPHY FINANCE CO INC SAN LEANDRO	Pacific Telephone Directory
	MURPHY FINANCE CO INC SAN LEANDRO	Pacific Telephone Directory

16396 E 14TH ST

Year	Uses	Source
1982	RUBY S CLEANERS	Pacific Telephone
	STEAMEX	Pacific Telephone
1965	SWENSEN S ICE CREAM	R. L. Polk & Co.

16404 E 14TH ST

Year	Uses	Source
2002	POLI Joseph	R. L. Polk & Co.
	THRIFTS VARIETYSTR	R. L. Polk & Co.
	CORNERSTONE	R. L. Polk & Co.
1982	SHAKLEE DISTRIBUTOR SAN LEANDRO	Pacific Telephone
	PATTI S BOOK STORE SAN LEANDRO	Pacific Telephone
1976	PATTI S BOOK STORE	R. L. Polk & Co.
1960	LUCKY STAR MARKET	Pacific Telephone

16407 E 14TH ST

Year	Uses	Source
2002	PESTANAE	R. L. Polk & Co.
1965	RAY S NORWALK SERV	R. L. Polk & Co.
1960	U HAUL CO DIR	Pacific Telephone
	LEE S NORWALK SERVICE	Pacific Telephone

FINDINGS

16408 E 14TH ST

Year	Uses	Source
2002	ALICES BARBER SHOP	R. L. Polk & Co.
1982	HOAGY S BARBER SHOP SAN LEANDRO	Pacific Telephone
1979	HOAGY S BARBER SHOP	Pacific Telephone
1976	HOAGY S BARBER SIHOP	R. L. Polk & Co.

16410 E 14TH ST

Year	Uses	Source
2002	BAY MOTOR N	R. L. Polk & Co.
	ONE RENTAL BAYMOTORN	R. L. Polk & Co.
	ONE RENTAL	R. L. Polk & Co.
	POLIJoseph	R. L. Polk & Co.
1991	Harris Motors	PACIFIC BELL WHITE PAGES
	Harris Mr	PACIFIC BELL WHITE PAGES
	Harrs N	PACIFIC BELL WHITE PAGES
	Harris N	PACIFIC BELL WHITE PAGES
	Harris Nancy A	PACIFIC BELL WHITE PAGES
1986	Harris Motors	PACIFIC BELL WHITE PAGES
	Harris N	PACIFIC BELL WHITE PAGES
1982	HARRIS MOTORS SAN LEANDRO	Pacific Telephone
1980	Harris Motors	Pacific Telephone
1979	HARRIS MOTORS	Pacific Telephone
	HOME AUTO SALES	Pacific Telephone
1976	HARRIS MOTORS	R. L. Polk & Co.
1975	HARRIS MOTORS	Pacific Telephone
1970	BOB HARRIS SIGNS SAN LEANDRO	Pacific Telephone Directory
	HARRIS MOTORS SAN LEANDRO	Pacific Telephone Directory
1962	Lees Tire Service	Pacific Telephone

16411 E 14TH ST

Year	Uses	Source
2002	GROCERY EDEN MEAT	R. L. Polk & Co.
	EDEN MARKET	R. L. Polk & Co.
1982	PIROUZ MARKET SAN LEANDRO	Pacific Telephone
	MAC S MEATS SAN LEANDRO	Pacific Telephone
1979	PIROUZ MARKET	Pacific Telephone
	MAC S MEATS	Pacific Telephone
1976	MAC S MEATS	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1976	KURY S MARKET	R. L. Polk & Co.
1970	HENRY S MKT SAN LEANDRO	Pacific Telephone Directory
1965	MAC S MEATS	R. L. Polk & Co.
1962	Henrys Market	Pacific Telephone
1950	PESTANA JOHN SEWR CONTR	The Pacific Telephone & Telegraph Co.
	SAE LEANDRO CONSTRUCTION CO	The Pacific Telephone & Telegraph Co.

16433 E 14TH ST

Year	Uses	Source
1950	SAN FRANCISCO BAY REALTY	The Pacific Telephone & Telegraph Co.
	MOSHKIN MICHAEL A R	The Pacific Telephone & Telegraph Co.

16438 E 14TH ST

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
1982	ROCKSMITHS THE SAN LEANDRO	Pacific Telephone

16440 E 14TH ST

Year	Uses	Source
2002	VAUGHA	R. L. Polk & Co.
1965	SMITH WARREN P PRINTER	R. L. Polk & Co.
1960	SMITH WARREN P PRINTER SAN LEANDRO BR 6318	Pacific Telephone

16442 E 14TH ST

Year	Uses	Source
1965	MAR NA BEAUTY SALON	R. L. Polk & Co.
1960	MAR NA BEAUTY SALON	Pacific Telephone

16446 E 14TH ST

Year	Uses	Source
2002	SILVA Chrislian	R. L. Polk & Co.
1982	PAUL S CUSTOM AUTO UPHOLSTERY SAN LEANDRO	Pacific Telephone
1976	COWBOY S CAR CORRALL	R. L. Polk & Co.
	KOWBOY S KAR KORRAL	R. L. Polk & Co.
1965	FRANK S BODY SHOP	R. L. Polk & Co.
1960	SHEFFIELD MOTORS	Pacific Telephone

FINDINGS

16455 E 14TH ST

Year	Uses	Source
2002	VALDEZGualle	R. L. Polk & Co.

16459 E 14TH ST

Year	Uses	Source
2002	DAWSON V	R. L. Polk & Co.

16475 E 14TH ST

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.

16480 E 14TH ST

Year	Uses	Source
1962	Economy Motors	Pacific Telephone
1960	C C MOTORS	Pacific Telephone
1950	SCHOUWEILER C J	The Pacific Telephone & Telegraph Co.

16485 E 14TH ST

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
1979	ASHLAND SCHOOL	Pacific Telephone
1976	ASHLAND SCHOOL	R. L. Polk & Co.
1965	SAN LORENZO UNIFIED SCHOOL DISTRICT	R. L. Polk & Co.
1960	SAN LORENZO ELEMENTARY SCHOOLS ADMINISTRATION OFFICE	Pacific Telephone

16490 E 14TH ST

Year	Uses	Source
2002	OCARIVEAUJerry	R. L. Polk & Co.
	TAQUERIASA	R. L. Polk & Co.
1982	EBB TIDE SAN LEANDRO	Pacific Telephone
1979	CASA DEL TACO	Pacific Telephone

16496 E 14TH ST

Year	Uses	Source
2002	PANGChi	R. L. Polk & Co.
1982	KENTUCKY FRIED CHICKEN	Pacific Telephone
1980	Kentucky Fried Chicken Take Home	Pacific Telephone
1979	KENTUCKY FRIED CHICKEN TAKE HOME	Pacific Telephone

FINDINGS

Year	Uses	Source
1973	COMMISSARY	Pacific Telephone
1970	COLONEL SANDERS KENTUCKY FRIED CHICKEN	Pacific Telephone Directory
	KENTUCKY FRIED CHICKEN TAKE HOME	Pacific Telephone Directory
1960	SEASIDE OIL CO	Pacific Telephone
	FRANK S BODY SHOP	Pacific Telephone
1955	COLDIRON & PEEPLES OIL CO SAN LEANDRO	The Pacific Telephone & Telegraph Co.

16500 E 14TH ST

Year	Uses	Source
2002	BARFEEIBehzad	R. L. Polk & Co.
	HA AUTO CARE	R. L. Polk & Co.
1982	BODY AND PAINT SPECIALISTS SAN LEANDRO	Pacific Telephone
	MCCHESNEY JERRY RECREATIONAL CENTER	Pacific Telephone
1979	BODY AND PAINT SPECIALISTS	Pacific Telephone
	ELDREDGE MOTORS	Pacific Telephone
	PETE PLAYER AUTOS	Pacific Telephone
1976	CHARLIE S AUTO REPAIR	R. L. Polk & Co.
	ELDREDGE MOTORS	R. L. Polk & Co.
1962	Petersen Motors	Pacific Telephone
	Lee Petersen Motors	Pacific Telephone
1960	PETERSEN MOTORS	Pacific Telephone
1955	SETZ ROBT C ASHLAND MOTR SALES SAN LEANDRO	The Pacific Telephone & Telegraph Co.
	ASHLAND MOTOR SALES SAN LEANDRO	The Pacific Telephone & Telegraph Co.

KENT AVE

16305 KENT AVE

Year	Uses	Source
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.
1976	B & K RADIO & TVSERVICE	R. L. Polk & Co.

16315 KENT AVE

Year	Uses	Source
1960	SILVA JE	Pacific Telephone

FINDINGS

16325 KENT AVE

Year	Uses		Source
2002	EPLIN Thomas		Haines
	EPLIN Thomas		R. L. Polk & Co.
1982	MASSIE WM J	SAN LORENZO	Pacific Telephone
1979	MASSIE WM J		Pacific Telephone
1976	MASSIE WM J		R. L. Polk & Co.
1973	MASSIE WM J		Pacific Telephone
1960	MASSIE WMS J		Pacific Telephone

16327 KENT AVE

Year	Uses		Source
2002	OJOEMay		Haines
	OJOEMay		R. L. Polk & Co.
1982	GARCIA BERNARD	SAN LORENZO	Pacific Telephone
1979	GARCIA BERNARD		Pacific Telephone
1976	GARCLA BERNARD		R. L. Polk & Co.
1973	GARCIA BERNARD		Pacific Telephone
1960	WALLACE BOB		Pacific Telephone
	WALLACE RITA		Pacific Telephone

16331 KENT AVE

Year	Uses		Source
2002	MADRIDR		Haines
	MADRIDR		R. L. Polk & Co.
1982	MADRID BERNARD	SAN LORENZO	Pacific Telephone
1979	MADRID BERNARD		Pacific Telephone
1976	MADRID BERNARD		R. L. Polk & Co.
1973	MADRID BERNARD		Pacific Telephone
1960	MADRID BERNARD		Pacific Telephone

16333 KENT AVE

Year	Uses	Source
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.

16341 KENT AVE

Year	Uses		Source
1982	MCCALL CORA E	SAN LORENZO	Pacific Telephone
1979	MC CALL CORA E		Pacific Telephone
1976	MC CALL CORA E		R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1973	FUKUCHI YONE	Pacific Telephone
1960	FUKUCHI YONE	Pacific Telephone

16349 KENT AVE

Year	Uses	Source
2002	OTSUKAFred 510 4 E	Haines
	SASAKIDick	Haines
	SASAKIDick	R. L. Polk & Co.
	OTSUKAFred 510 4 E	R. L. Polk & Co.
1982	SASAKI M SAN LORENZO	Pacific Telephone

16379 KENT AVE

Year	Uses	Source
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.

16381 KENT AVE

Year	Uses	Source
2002	OFLEMINGJack	R. L. Polk & Co.
	OFLEMINGJack	Haines
1982	FLEMING JACK W SAN LORENZO	Pacific Telephone
1973	FLEMING JACK W	Pacific Telephone
1960	GODDARD LEWIS W	Pacific Telephone

16386 KENT AVE

Year	Uses	Source
2002	OARNERICH Denise	Haines
	OARNERICH Denise	R. L. Polk & Co.
1960	MOUTILNHO WMN	Pacific Telephone

16389 KENT AVE

Year	Uses	Source
2002	PERRY Elizabeth	Haines
	PERRY Elizabeth	R. L. Polk & Co.
1960	LEWTER JERRY F	Pacific Telephone

16394 KENT AVE

Year	Uses	Source
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.

FINDINGS

Year	Uses		Source
1982	ARNERICH GEORGE	SAN LORENZO	Pacific Telephone
1979	ARNERICH GEORGE		Pacific Telephone

16396 KENT AVE

Year	Uses	Source
2002	SANTALIZAdrlenne	Haines
	SANTALIZAdrlenne	R. L. Polk & Co.

16400 KENT AVE

Year	Uses	Source
2002	COSTACarne	R. L. Polk & Co.
	COSTA Rick	R. L. Polk & Co.
	COSTACarne	Haines
	COSTA Rick	Haines
1979	COLLIER WE REV	Pacific Telephone

16402 KENT AVE

Year	Uses		Source
2002	XXXX		Haines
	XXXX		R. L. Polk & Co.
1982	KASCAK ETHEL L	SAN LORENZO	Pacific Telephone
1976	BOOZE U B		R. L. Polk & Co.
1973	NOIA NORMAN		Pacific Telephone

16404 KENT AVE

Year	Uses		Source
1982	ADAMS D A	SAN LORENZO	Pacific Telephone
1979	MULLEN WAYNE		Pacific Telephone
	ADAMS D A		Pacific Telephone
1976	ADAMS D A		R. L. Polk & Co.
1973	BUENO D		Pacific Telephone
1960	BLACK M E		Pacific Telephone

16406 KENT AVE

Year	Uses	Source
1976	BAYERSKI P M	R. L. Polk & Co.
1960	CRACKNEL C A	Pacific Telephone

FINDINGS

16408 KENT AVE

Year	Uses	Source
2002	PADOVANAlfred	Haines
	PADOVANAlfred	R. L. Polk & Co.
1976	MEEKER MICHAEL	R. L. Polk & Co.
1973	PADOVAN ALFRED	Pacific Telephone

16412 KENT AVE

Year	Uses	Source
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.
1982	THORESON HERBERT SAN LORENZO	Pacific Telephone
1973	LAWSON FRANCES A	Pacific Telephone

Kent Avenue

16325 Kent Avenue

Year	Uses	Source
2002	EPLIN Thomas	Haines
	EPLIN Thomas	R. L. Polk & Co.
1982	MASSIE WM J SAN LORENZO	Pacific Telephone
1979	MASSIE WM J	Pacific Telephone
1976	MASSIE WM J	R. L. Polk & Co.
1973	MASSIE WM J	Pacific Telephone
1960	MASSIE WMS J	Pacific Telephone

16331 Kent Avenue

Year	Uses	Source
2002	MADRIDR	Haines
	MADRIDR	R. L. Polk & Co.
1982	MADRID BERNARD SAN LORENZO	Pacific Telephone
1979	MADRID BERNARD	Pacific Telephone
1976	MADRID BERNARD	R. L. Polk & Co.
1973	MADRID BERNARD	Pacific Telephone
1960	MADRID BERNARD	Pacific Telephone

FINDINGS

KENTWOOD LN

1100 KENTWOOD LN

Year	Uses	Source
2002	WYNN Lan	Haines
	WYNNLan	R. L. Polk & Co.
1986	-109 JACKSON V	PACIFIC BELL WHITE PAGES

MATEO

16373 MATEO

Year	Uses	Source
2002	THOM 5 ASV	R. L. Polk & Co.

16378 MATEO

Year	Uses	Source
2002	ADOIMUha Ma	R. L. Polk & Co.

16385 MATEO

Year	Uses	Source
2002	50 RRPSONMonr 1 B	R. L. Polk & Co.

16386 MATEO

Year	Uses	Source
2002	BAKK 0 Orr 4le	R. L. Polk & Co.

16390 MATEO

Year	Uses	Source
2002	MNYATAThomas	R. L. Polk & Co.

16393 MATEO

Year	Uses	Source
2002	3 ELDSLernca	R. L. Polk & Co.

16394 MATEO

Year	Uses	Source
2002	GAPH 00 RHanla	R. L. Polk & Co.

16395 MATEO

Year	Uses	Source
2002	ME 980 ESRovse	R. L. Polk & Co.
	ULEB 0164 Rose	R. L. Polk & Co.

FINDINGS

MATEO CT

16393 MATEO CT

Year	*Uses*	*Source*
1979	FIELDS A P	Pacific Telephone

MATEO ST

16373 MATEO ST

Year	*Uses*	*Source*
2002	THOM 5 ASV	Haines

16377 MATEO ST

Year	*Uses*	*Source*
2000	THOMAS V A	Pacific Bell
1996	THOMAS V A	PACIFIC BELL DIRECTORY
1992	THOMAS V A	PACIFIC BELL DIRECTORY
1982	THOMAS V A SAN LEANDRO	Pacific Telephone
1965	THOMAS ROY A	R. L. Polk & Co.

16378 MATEO ST

Year	*Uses*	*Source*
2002	ADOIMUha Ma	Haines
1992	HARRISON R	PACIFIC BELL DIRECTORY
1982	CASAS CONRADO S SAN LEANDRO	Pacific Telephone
1979	ESTRELLA JAMES	Pacific Telephone
1960	THRASHER CW	Pacific Telephone

16385 MATEO ST

Year	*Uses*	*Source*
2002	50 RRPSONMonr 1 B	Haines
2000	MORRISON MONTY B	Pacific Bell
1996	MORRISON MONTY B	PACIFIC BELL DIRECTORY
1992	MORRISON MONTY B	PACIFIC BELL DIRECTORY
1982	LEAL MANUEL SAN LEANDRO	Pacific Telephone
1979	LEAL MANUEL	Pacific Telephone
1976	LEAL MANUEL	R. L. Polk & Co.
1973	LEAL MANUEL	Pacific Telephone
1965	LEAL MANUEL	R. L. Polk & Co.
1960	LEAL MANUEL	Pacific Telephone

FINDINGS

16386 MATEO ST

Year	Uses	Source
2002	BAKK 0 Orr 4le	Haines
1992	BRODIE CHARLOTTE & KEVIN	PACIFIC BELL DIRECTORY
1979	LEVITIN TERRI A	Pacific Telephone
1976	PLAZA FRANK S	R. L. Polk & Co.
1960	MUR PLOY HAROLD R	Pacific Telephone
1955	MURPHY HAROLD R SAN LEANDRO	The Pacific Telephone & Telegraph Co.

16390 MATEO ST

Year	Uses	Source
2002	MNYATAThomas	Haines
1973	MIYATA THOS W	Pacific Telephone

16393 MATEO ST

Year	Uses	Source
2002	F 3 ELDSLernca	Haines
1996	FIELDS A P	PACIFIC BELL DIRECTORY
1992	FIELDS A P	PACIFIC BELL DIRECTORY
1982	FIELDS A P SAN LEANDRO	Pacific Telephone
1976	FIELDS A P	R. L. Polk & Co.
1973	FIELDS A P	Pacific Telephone
1965	FIELDS A P	R. L. Polk & Co.
1960	FIELDS A P	Pacific Telephone

16394 MATEO ST

Year	Uses	Source
2002	GAPH 00 RHanla	Haines
1982	DE LA MONTANYA M J SAN LEANDRO	Pacific Telephone
1973	DT LALLA JOHN	Pacific Telephone
1970	DE LA MONTANYA M J SAN LEANDRO	Pacific Telephone Directory
1965	DE LA MATER RICHARD C	R. L. Polk & Co.
1962	de la Montanya M J	Pacific Telephone
1960	DETAKOVIAS NICK	Pacific Telephone
1955	DE LA MONTANYA M J SAN LEANDRO	The Pacific Telephone & Telegraph Co.

16395 MATEO ST

Year	Uses	Source
2002	0 ULEB 0164 Rose	Haines
	ME 980 ESRovse	Haines

Year	Uses		Source
2000	GULEBIAN ROSE		Pacific Bell
1996	GULEBIAN MARTIN H		PACIFIC BELL DIRECTORY
1992	GULEBIAN MARTIN H		PACIFIC BELL DIRECTORY
1982	GULEBIAN MARTIN H	SAN LEANDRO	Pacific Telephone
1979	GULEBIAN MARTIN H		Pacific Telephone
1976	GULEBIAN MARTIN H		R. L. Polk & Co.
1973	GULEBIAN MARTIN H		Pacific Telephone
1960	MENDES ROSE M		Pacific Telephone

PAJARO CT

1411 PAJARO CT

Year	Uses		Source
2002	SILVACOri		Haines
	SILVACOri		R. L. Polk & Co.
2000	SILVA CHRIS		Pacific Bell
1996	SILVA CHRIS		PACIFIC BELL DIRECTORY
1992	SILVA CHRIS		PACIFIC BELL DIRECTORY
1986	SILVA CHRIS		PACIFIC BELL WHITE PAGES
1982	SILVA CHRIS	SAN LEANDRO	Pacific Telephone
1965	SILVA CHRIS		R. L. Polk & Co.
1960	SILVA CHRIS		Pacific Telephone

1416 PAJARO CT

Year	Uses		Source
1982	BARBATO D	SAN LEANDRO	Pacific Telephone
1960	GOTHAM JOAN B		Pacific Telephone

1418 PAJARO CT

Year	Uses	Source
2002	WENDTGertrude	R. L. Polk & Co.
	WENDTGertrude	Haines

1420 PAJARO CT

Year	Uses		Source
2000	JONES JANET R		Pacific Bell
1996	JONES JANET R		PACIFIC BELL DIRECTORY
1992	JONES JANET R		PACIFIC BELL DIRECTORY
1986	JONES JANET R		PACIFIC BELL WHITE PAGES
1982	JONES JANET R	SAN LEANDRO	Pacific Telephone

Year	Uses		Source
1979	JONES JANET R		Pacific Telephone
1976	JOHANSON L		R. L. Polk & Co.

1425 PAJARO CT

Year	Uses		Source
2002	WENDTGe 4rtirde		R. L. Polk & Co.
	WENDTGe 4rtirde		Haines
1986	GONZALES FRANK		PACIFIC BELL WHITE PAGES
1982	GONZALES FRANK	SAN LEANDRO	Pacific Telephone
1979	GONZALES FRANK		Pacific Telephone
1976	GONZALES FRANK		R. L. Polk & Co.
1973	GONZALES FRANK		Pacific Telephone
1965	GONZALES FRANK		R. L. Polk & Co.
1946	GONSALES FRANK		R. L. Polk & Co.

1426 PAJARO CT

Year	Uses	Source
2002	GONZALESGabneh	R. L. Polk & Co.
	9 GONZALESGabneh	Haines
1996	GONZALEZ M	PACIFIC BELL DIRECTORY
1965	GOMES MARILYN	R. L. Polk & Co.
1960	GOMES MARY	Pacific Telephone
1946	GOMES MARY MRS	R. L. Polk & Co.

1430 PAJARO CT

Year	Uses	Source
2002	FERSUSONHaro B	R. L. Polk & Co.
	FERSUSONHaro B	Haines
1979	FERGUSON HAROLD A	Pacific Telephone
1965	TITUS ALBERT W	R. L. Polk & Co.

1436 PAJARO CT

Year	Uses		Source
2002	RAMfl REZJwesus		R. L. Polk & Co.
	RAMfl REZJwesus		Haines
1982	BOHRER CARROLL	SAN LEANDRO	Pacific Telephone
1979	BOHRER CARROLL		Pacific Telephone
1976	BOHRER CARROLL		R. L. Polk & Co.
1973	BOHRER CARROLL		Pacific Telephone
1965	BOHRER CARROLL		R. L. Polk & Co.

Year	Uses	Source
1960	BAOHRER CARROLL	Pacific Telephone
1946	BOHRER CARROLL	R. L. Polk & Co.

1462 PAJARO CT

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
	XXXX	Haines

PAJARO DR

1436 PAJARO DR

Year	Uses	Source
2002	WEALTHCODE	Haines

PESHEL CT

16417 PESHEL CT

Year	Uses	Source
1982	CHAN GLENN W SAN LORENZO	Pacific Telephone
1976	BILLINGS SHERMAN	R. L. Polk & Co.
1965	WELLS RUTH	R. L. Polk & Co.
1960	BILLINGS EFFIE	Pacific Telephone

16418 PESHEL CT

Year	Uses	Source
1976	LA CHAPPA EDW	R. L. Polk & Co.
1973	KLINE DAVID L	Pacific Telephone

16421 PESHEL CT

Year	Uses	Source
1982	PRATT FRANK E SAN LORENZO	Pacific Telephone
1965	HARRILD ALLAN	R. L. Polk & Co.
1960	WAGNER LEO H	Pacific Telephone

SANTA ANA ST

1013 SANTA ANA ST

Year	Uses	Source
1982	TANISAWA C SAN LORENZO	Pacific Telephone
	MARUYAMA Y SAN LORENZO	Pacific Telephone
1965	SHERBOURNE GEO B	R. L. Polk & Co.

FINDINGS

1027 SANTA ANA ST

Year	Uses	Source
1965	JOHNSON MARY	R. L. Polk & Co.
	JOHNSON DAVID F	R. L. Polk & Co.

1028 SANTA ANA ST

Year	Uses	Source
1982	LACOMBE WILLARD SAN LORENZO	Pacific Telephone
1973	LA COMBE WILLARD	Pacific Telephone
1965	LA COMBE WILLARD	R. L. Polk & Co.
1960	LA COMBE WILLARD	Pacific Telephone

1041 SANTA ANA ST

Year	Uses	Source
1973	ANGEL TONY MRS	Pacific Telephone
1965	FRANCISLESLIE	R. L. Polk & Co.
1960	FRANCIS LESLIE	Pacific Telephone

1042 SANTA ANA ST

Year	Uses	Source
1982	SIU KWOK KEUNG SAN LORENZO	Pacific Telephone
1965	MONTALVO LAZARUS	R. L. Polk & Co.

1055 SANTA ANA ST

Year	Uses	Source
1982	TRINH MENG SAN LORENZO	Pacific Telephone
1973	CLEARY F D	Pacific Telephone
1965	TEO MATAUA	R. L. Polk & Co.
	TEO ANDREA	R. L. Polk & Co.
1960	ROTHWEILEI CHAS G ROCK A BYE NRSRY SCHL	Pacific Telephone
	ROCK A BYE NURSERY SCHOOL	Pacific Telephone

1056 SANTA ANA ST

Year	Uses	Source
1965	ANDERSON JACK B	R. L. Polk & Co.

1069 SANTA ANA ST

Year	Uses	Source
1982	PALERMINI JOHN SAN LORENZO	Pacific Telephone
1973	PALERMINI JOHN	Pacific Telephone
1965	BROWN ETTA HARPER	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1965	BROWN RALPH I	R. L. Polk & Co.
1960	BROWN ETTA HARPER SAN LORENZO BR 6560	Pacific Telephone
	BROWN RALPH I	Pacific Telephone

1070 SANTA ANA ST

Year	Uses	Source
1982	OLIVER FLOYD & JILL SAN LORENZO	Pacific Telephone
1965	CAREY VIRGINIA L MRS	R. L. Polk & Co.
1960	CAREY VIRGINIA L MRS	Pacific Telephone

1083 SANTA ANA ST

Year	Uses	Source
1973	PERRY IRMA	Pacific Telephone
1965	RAGUSANO LOUIS F	R. L. Polk & Co.

1084 SANTA ANA ST

Year	Uses	Source
1973	ANGLIN DONALD G	Pacific Telephone
1960	ATKINS JOHN J	Pacific Telephone

1097 SANTA ANA ST

Year	Uses	Source
1982	BREEDVELD ARY SAN LORENZO	Pacific Telephone
1973	BREEDVELD ARY	Pacific Telephone
1965	BREEDVELD ARY	R. L. Polk & Co.
1960	NORRIS DICK L	Pacific Telephone

1098 SANTA ANA ST

Year	Uses	Source
1982	RUIZ MERIE C SAN LORENZO	Pacific Telephone
1960	RULIZ MERLE C	Pacific Telephone

1115 SANTA ANA ST

Year	Uses	Source
1965	WHITEICAN DAVID L	R. L. Polk & Co.
	WHILTENAN LEE ANN	R. L. Polk & Co.
1960	RAMOS ANTHONY H	Pacific Telephone

FINDINGS

1116 SANTA ANA ST

Year	Uses	Source
1982	GUERRI JOS A SAN LORENZO	Pacific Telephone
1979	GUERRI JOS A	Pacific Telephone
1973	GUERRI JOS A	Pacific Telephone
1965	GUERRI JOS A	R. L. Polk & Co.
1960	GUERRI JOS A	Pacific Telephone

1131 SANTA ANA ST

Year	Uses	Source
1965	MARCHI HERMAN J	R. L. Polk & Co.
1960	ROBERTS ISABEL MRS	Pacific Telephone

1132 SANTA ANA ST

Year	Uses	Source
1965	BRONEMANN PETRA MRS	R. L. Polk & Co.

1148 SANTA ANA ST

Year	Uses	Source
1982	PELTON ROBT A SAN LORENZO	Pacific Telephone
1965	HUFFMAN CONWAY R	R. L. Polk & Co.
1960	GRABER RAYMOND E	Pacific Telephone

1163 SANTA ANA ST

Year	Uses	Source
1982	SMITH JOHN E SAN LORENZO	Pacific Telephone
1965	SMITH JOHN E	R. L. Polk & Co.
1962	Smith John E	Pacific Telephone
1960	SMITH JOHN E	Pacific Telephone

1179 SANTA ANA ST

Year	Uses	Source
1982	COOK C SAN LORENZO	Pacific Telephone
1965	PELTON ROBT A	R. L. Polk & Co.

1195 SANTA ANA ST

Year	Uses	Source
1982	OTSUKA FRED SAN LORENZO	Pacific Telephone
1979	LUCCHESI B	Pacific Telephone
1965	TACHERA DAVE W	R. L. Polk & Co.

FINDINGS

1196 SANTA ANA ST

Year	Uses		Source
1982	LUCCHESI BRUNO	SAN LORENZO	Pacific Telephone
1960	TESTA PETER		Pacific Telephone

SANTA ANA WAY

1013 SANTA ANA WAY

Year	Uses	Source
1979	MARUYAMA Y	Pacific Telephone

1014 SANTA ANA WAY

Year	Uses	Source
2002	Old ARTINAnak J	R. L. Polk & Co.
	Old ARTINAnak J	Haines

1027 SANTA ANA WAY

Year	Uses	Source
2002	IARRCOUINKteyla	Haines
	WAHBEH Waor	Haines
	IARRCOUINKteyla	R. L. Polk & Co.
	WAHBEH W aor	R. L. Polk & Co.

1028 SANTA ANA WAY

Year	Uses	Source
1979	LA COMNIBE WILLARD	Pacific Telephone
1976	LA COMBE WILLARD	R. L. Polk & Co.

1041 SANTA ANA WAY

Year	Uses	Source
2002	ANGELOi B tke	R. L. Polk & Co.
	ANGELOi B tke	Haines

1042 SANTA ANA WAY

Year	Uses	Source
2002	HSl UKwolvk	Haines
	HSl UKwolvk	R. L. Polk & Co.

1055 SANTA ANA WAY

Year	Uses	Source
2002	9 It OHMeng	R. L. Polk & Co.
	0 T 9 It OHMeng	Haines

FINDINGS

1064 SANTA ANA WAY

Year	Uses	Source
2002	01 JIOOLFesandi Oo	Haines
	01 JIOOLFesandi Oo	R. L. Polk & Co.

1069 SANTA ANA WAY

Year	Uses	Source
1979	PALERMINI JOHN	Pacific Telephone
1976	PALERMINI JOHN	R. L. Polk & Co.

1070 SANTA ANA WAY

Year	Uses	Source
2002	CAR 6 AJALJJteus	R. L. Polk & Co.
	CAR 6 AJALJJteus	Haines

1083 SANTA ANA WAY

Year	Uses	Source
1970	PERRY IRMA SAN LEANDROZ	Pacific Telephone Directory

1084 SANTA ANA WAY

Year	Uses	Source
1976	ANGLLN DONALD G	R. L. Polk & Co.

1091 SANTA ANA WAY

Year	Uses	Source
2002	BREEOVELDAry	R. L. Polk & Co.
	BREEOVELDAry	Haines

1097 SANTA ANA WAY

Year	Uses	Source
1976	BREEDVELD ARY	R. L. Polk & Co.

1098 SANTA ANA WAY

Year	Uses	Source
2002	01 ERFORDEnca	R. L. Polk & Co.
	0 C 01 ERFORDEnca	Haines

1115 SANTA ANA WAY

Year	Uses	Source
2002	KOGUTStanitew 51 S 27 T 8 D	Haines
	K 00 UTS ist 510 27 T 8780 I	Haines
	K 00 UTS ist 510 27 T 8780 I	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
2002	KOGUTStanitew 51 S 27 T 8 D	R. L. Polk & Co.

1116 SANTA ANA WAY

Year	Uses	Source
2002	GUERF 4tns A	R. L. Polk & Co.
	GUERF 4tns A	Haines

1131 SANTA ANA WAY

Year	Uses	Source
2002	PENAOJran	Haines
	PENAOJran	R. L. Polk & Co.

1132 SANTA ANA WAY

Year	Uses	Source
2002	BROFEMANNDeoyn	R. L. Polk & Co.
	BROFEMANNDeoyn	Haines

1140 SANTA ANA WAY

Year	Uses	Source
2002	PENAEatttai O	Haines
	PENAEatttai O	R. L. Polk & Co.

1147 SANTA ANA WAY

Year	Uses	Source
2002	MCDANELLMichaei	R. L. Polk & Co.
	MCDANELLMichaei	Haines

1149 SANTA ANA WAY

Year	Uses	Source
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.

1163 SANTA ANA WAY

Year	Uses	Source
1970	SMITH JOHN E SAN LEANDROZ	Pacific Telephone Directory

1179 SANTA ANA WAY

Year	Uses	Source
2002	XXXX	R. L. Polk & Co.
	XXXX	Haines
1979	COOK C	Pacific Telephone

FINDINGS

Year	Uses	Source
1976	FAZIO FRED	R. L. Polk & Co.

1182 SANTA ANA WAY

Year	Uses	Source
2002	PADRONJO W 00 B	R. L. Polk & Co.
	6 PADRONJO W 00 B	Haines

1195 SANTA ANA WAY

Year	Uses	Source
2002	C 330 KMargael	Haines
	330 KMargael	R. L. Polk & Co.

1196 SANTA ANA WAY

Year	Uses	Source
1979	LANCASTER DON	Pacific Telephone
1976	LANCASTER DON	R. L. Polk & Co.

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
16309 Kent Avenue	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

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
1001 DELANO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1001 DELANO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1003 DELANO CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1003 DELANO ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1013 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1013 SANTA ANA WAY	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1014 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1023 DELANO CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1024 DELANO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1024 DELANO CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1024 DELANO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1025 DELANO ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1027 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1027 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1028 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1028 SANTA ANA WAY	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1041 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1041 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1042 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1042 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1047 DELANO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1047 DELANO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1052 DELANO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1052 DELANO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1055 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1055 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1056 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1064 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1069 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1069 SANTA ANA WAY	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1070 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1070 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1083 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1083 SANTA ANA WAY	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1084 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1084 SANTA ANA WAY	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1085 DELANO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1085 DELANO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1086 DELANO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1086 DELANO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1091 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1097 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1097 SANTA ANA WAY	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1098 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1098 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1100 KENTWOOD LN	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1115 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1115 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1116 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1976, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1116 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1131 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1131 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1132 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1132 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1140 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1147 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1148 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1149 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1163 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1163 SANTA ANA WAY	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1179 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1179 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1182 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1195 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1195 SANTA ANA WAY	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1196 SANTA ANA ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1196 SANTA ANA WAY	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1403 164TH AVE	2006, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1403 165TH AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1406 163RD AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1406 164TH AVE	2006, 1993, 1991, 1984, 1980, 1979, 1976, 1973, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1407 163RD AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1410 163RD AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1410 164TH AVE	2006, 2000, 1996, 1993, 1991, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1411 PAJARO CT	2006, 1993, 1991, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1414 164TH AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1415 163RD AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1416 163RD AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1416 PAJARO CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
1418 163RD AVE	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1418 PAJARO CT	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1420 PAJARO CT	2006, 2002, 1993, 1991, 1984, 1980, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1421 163RD AVE	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1423 163RD AVE	2006, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1425 PAJARO CT	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1980, 1975, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1426 164TH AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1426 PAJARO CT	2006, 2000, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1430 164TH AVE	2006, 2000, 1996, 1993, 1991, 1984, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1430 PAJARO CT	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1436 PAJARO CT	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1436 PAJARO DR	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1440 164TH AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1967, 1960, 1959, 1956, 1954, 1951, 1950, 1945, 1943, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1444 164TH AVE	2006, 1993, 1991, 1984, 1980, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1446 164TH AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1450 164TH AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1954, 1951, 1950, 1943, 1938, 1933, 1932, 1928, 1926, 1925, 1920
1462 PAJARO CT	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16296 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16301 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16301 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16301 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1986, 1984, 1980, 1979, 1975, 1973, 1967, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16304 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16304 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16304 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16305 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16305 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16305 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1976, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16305 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16306 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16306 14TH ST E	2006, 2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16306 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16308 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16308 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16308 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16310 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16310 14TH ST E	2006, 2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16310 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16312 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16314 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16314 14TH ST E	2006, 2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16314 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16315 KENT AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16316 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16316 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16325 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16325 Kent Avenue	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16326 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1973, 1967, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16327 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16328 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16328 BLANCO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16329 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16329 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16329 BLANCO ST	2006, 1993, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16330 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16330 14TH ST E	2006, 2002, 2000, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16330 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1984, 1973, 1967, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16331 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16331 Kent Avenue	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16333 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16335 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16335 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16336 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16336 BLANCO ST	2006, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16337 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16337 BLANCO ST	2006, 2002, 1993, 1991, 1986, 1984, 1980, 1979, 1975, 1970, 1967, 1962, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16338 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16338 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16338 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1973, 1967, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16341 KENT AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16343 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16343 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16343 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16344 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16344 BLANCO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16345 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16345 BLANCO ST	2006, 2002, 1993, 1991, 1986, 1984, 1980, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16348 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16348 14TH ST E	2006, 2002, 2000, 1996, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16348 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16349 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16349 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16349 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16349 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16350 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16352 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16352 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16352 BLANCO ST	2006, 1993, 1984, 1979, 1976, 1975, 1973, 1967, 1965, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16357 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16357 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16357 BLANCO ST	2006, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16358 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16360 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16360 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16365 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16365 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16365 BLANCO ST	2006, 1993, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16366 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16366 BLANCO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16370 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16370 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16370 BLANCO ST	2006, 1993, 1984, 1982, 1979, 1976, 1975, 1973, 1967, 1962, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16371 BLANCO ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16373 MATEO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16373 MATEO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16375 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16375 14TH ST E	2006, 2002, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16375 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16377 MATEO ST	2006, 2002, 1993, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16378 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16378 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16378 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1984, 1973, 1967, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16378 MATEO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16378 MATEO ST	2006, 2000, 1996, 1993, 1991, 1986, 1984, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16379 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16380 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16380 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16381 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16382 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16382 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16382 BLANCO ST	2006, 1993, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16383 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16383 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16383 BLANCO ST	2006, 1993, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16384 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16384 14TH ST E	2006, 2002, 2000, 1996, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16384 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1984, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16385 MATEO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16385 MATEO ST	2006, 1993, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16386 E 14TH	2006, 2002, 2000, 1996, 1993, 1992, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16386 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1932, 1928, 1926, 1925, 1920
16386 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16386 MATEO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16386 MATEO ST	2006, 2000, 1996, 1993, 1991, 1986, 1984, 1982, 1980, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16387 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16387 BLANCO DR	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16387 BLANCO ST	2006, 2000, 1993, 1991, 1986, 1984, 1980, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16388 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16388 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16388 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1979, 1975, 1973, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16389 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16390 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16390 14TH ST E	2006, 2002, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16390 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16390 MATEO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16390 MATEO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16391 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16391 BLANCO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16392 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16392 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16392 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16393 MATEO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16393 MATEO CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16393 MATEO ST	2006, 2000, 1993, 1991, 1986, 1984, 1980, 1979, 1975, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16394 14TH ST E	2006, 2002, 1996, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16394 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16394 BLANCO ST	2006, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16394 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16394 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16394 MATEO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16394 MATEO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1967, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16395 MATEO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16395 MATEO ST	2006, 1993, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16396 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16396 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16396 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16398 BLANCO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16398 BLANCO ST	2006, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16400 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16400 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16402 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16404 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16404 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16404 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16404 KENT AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16406 KENT AVE	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16407 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16407 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16408 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16408 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16408 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16408 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16410 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16410 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16410 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1984, 1973, 1967, 1965, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16411 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16411 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16411 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1973, 1967, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16412 KENT AVE	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16414 14TH ST E	2006, 2002, 2000, 1996, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16416 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16417 PESHEL CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16418 PESHEL CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16421 PESHEL CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16429 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16433 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16438 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16438 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16440 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16440 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16440 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16442 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16446 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16446 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16446 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16455 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16455 14TH ST E	2006, 2002, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16455 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16457 14TH ST E	2006, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16459 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16459 14TH ST E	2006, 2002, 2000, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16459 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16475 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16475 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16480 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16480 E 14TH ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1959, 1956, 1955, 1954, 1951, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16485 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16485 14TH ST E	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16485 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16490 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16490 14TH ST E	2006, 2002, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16490 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16496 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
16496 14TH ST E	2006, 2002, 2000, 1996, 1993, 1991, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16496 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1976, 1975, 1967, 1965, 1962, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16500 14TH E	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16500 14TH ST E	2006, 2002, 1993, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
16500 E 14TH ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1973, 1970, 1967, 1965, 1959, 1956, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
983 DELANO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
983 DELANO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
986 DELANO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
986 DELANO CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
986 DELANO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
991 DELANO ST	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
993 DELANO	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
993 DELANO CT	2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1970, 1967, 1965, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920
993 DELANO ST	2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

ASSESSOR'S MAP 80C

Code Area Nos. 80-129

80B-1
78A 72

479

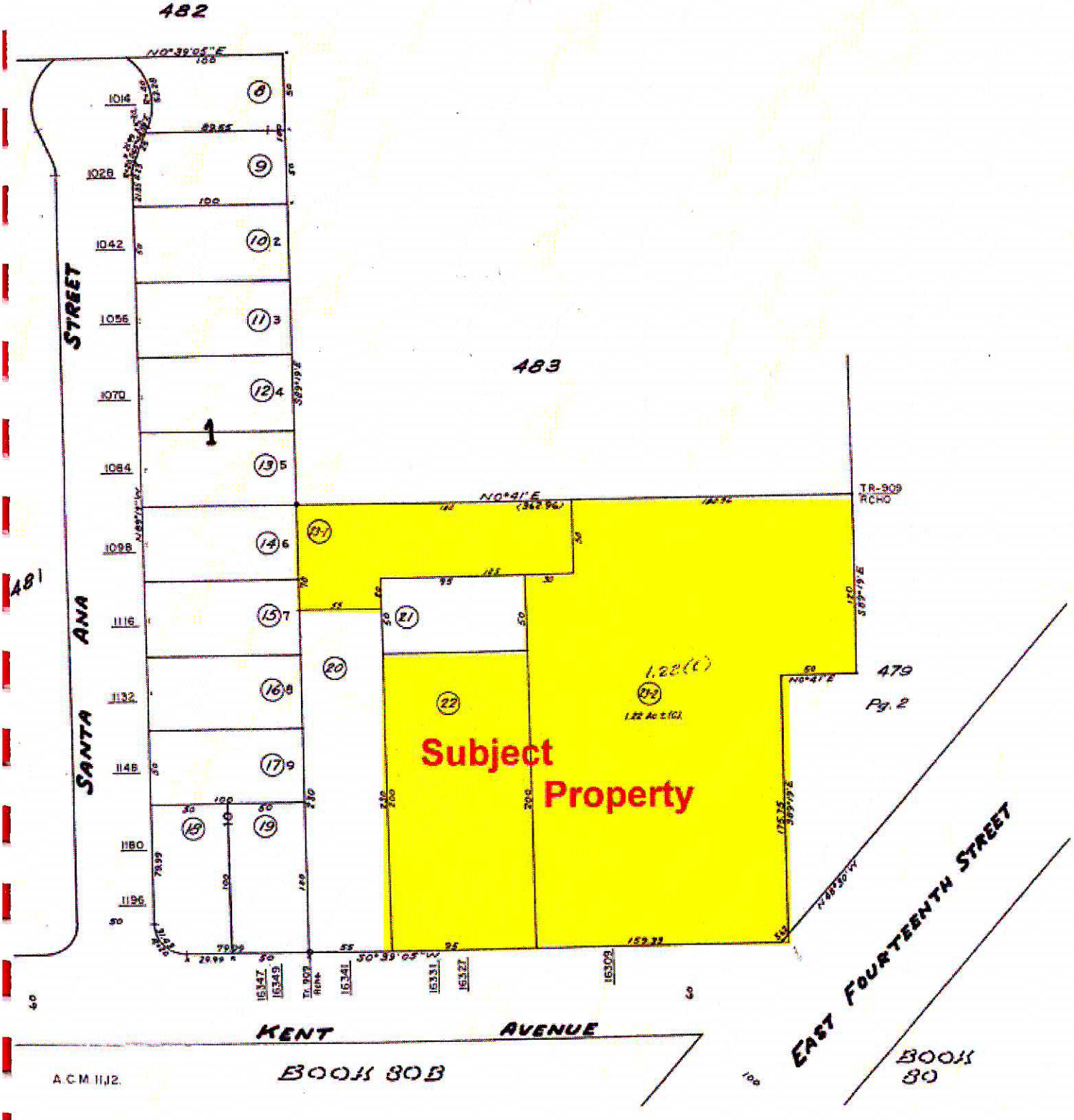
PG. 3

TRACT 909. (Bk. 30 Pg. 16)

Rancho San Lorenzo (Pat. Bk. A Pg. 142)

(Guillermo Castro)

Scale: 1" = 50'



BELINDA P. BLACKIE, P.E., R.E.A.

Principal Environmental Engineer

Summary of Experience

Belinda P. Blackie, environmental engineer, has 18 years of experience performing Phase I environmental site assessments and related studies, including hazardous materials users surveys, and more than nine years of experience performing soil and ground water quality investigations, underground storage tank (UST) removals and replacements, remediation projects, hazardous materials facility closures, environmental compliance projects, visual asbestos surveys, and stormwater and small water system management. She is well-practiced in the ASTM E 1527-05 (AAI) Phase I environmental site assessment standard, and has worked closely with an environmental attorney having specialized knowledge of the AAI scope, to ensure her Phase I studies cover all required elements, including historic owner/occupant interviews, complete questionnaires, and other often overlooked information. Ms. Blackie's experience also includes subsurface exploration, monitoring well installation and sampling, collection of surface water, ground water, and drinking water samples, storm water pollution prevention and monitoring, water treatment system monitoring and oversight, surface water monitoring for nutrient concentrations and algal growth, aerial photograph interpretation, soil and ground water modeling, soil and ground water remediation, hazardous materials facility closure, and vicinity hazardous materials users surveys.

Ms. Blackie has experience in negotiating with the California Regional Water Quality Control Board, California Department of Health Services, California Department of Toxic Substance Control, and the U.S. Environmental Protection Agency, as well as with local regulatory agencies including the San Jose and Santa Clara Fire Departments, and is familiar with current regulatory requirements for remedial investigation studies, LUFT sites, water treatment system operation, and storm water management.

Education

- Bachelor of Arts in Zoology, University of California at Berkeley, 1989
- Master of Science in Civil Engineering (specialization in environmental engineering and hydrogeology), San Jose State University, 1993

Registrations

- Registered Professional Engineer, No. 056448, California
- Registered Environmental Assessor, No. REA-06746, California

Select Project Experience

Ms. Blackie has conducted, directed, performed field work, and/or prepared reports for the representative environmental projects listed below.

Phase I Environmental Site Assessments

- Phase I Assessment for Proposed Acquisition of multiple parcels of former railroad/railyard property; Alameda, CA
- Phase I Assessment for Proposed Residential Redevelopment of Former Quarry/Cinnabar Mine Facility, San Jose, CA
- Phase I/CDE Assessments for Two Proposed School Facilities; San Jose, CA
- Phase I Assessments for Meat Packing Plant and Associated Facilities; Newman, CA
- Phase I Assessments for Proposed 45-Mile Long Agricultural Water Distribution Pipeline; Santa Cruz, Monterey, and San Benito Counties, CA
- Phase I Assessments for Proposed Residential Development of More Than Three Thousand Acres of Agricultural Land, Coalinga, Selma, Madera, Gustine, Oakdale, Reedley, and Chowchilla, CA

Vicinity Hazardous Materials Users Surveys

- Vicnity Hazardous Materials Users Surveys for 15 Proposed Residential/Mixed-Use Re-development Projects Under Consideration by City of San Jose Planning Department, San Jose, CA
- Vicnity Hazardous Materials Users Surveys for Three Proposed Residential/Mixed-Use Re-development Projects Under Consideration by City of Milpitas, Milpitas, CA
- Vicnity Hazardous Materials Users Survey for Proposed Football Stadium, Santa Clara, CA

Environmental Reviews for Environmental Impact Reports
- Charleston Road Environmental Impact Report, Mountain View, CA
- Bay Meadows Environmental Impact Report, San Mateo, CA

Asbestos Surveys
- Pre-Demolition Survey for Fruit/Vegetable Packing Company, San Jose, CA
- Asbestos Abatement at National Park Service Building, San Francisco, CA
- County Bus Yard Asbestos Pre-Demolition Survey, Santa Clara, CA

UST Site Management Services
- Meridian Avenue Former Service Station UST Closure, San Jose, CA
- Lundy Avenue Postal Service UST Removal and Replacement/Upgrade, San Jose, CA
- Alma Street Former Auto Repair Shop Sump, Lift and Waste Oil UST Removal, Palo Alto, CA

Risk Assessments
- Risk Evaluation of Formaldehyde Emissions from Cogeneration Plant, San Jose, CA
- Risk Evaluation of Residual Pesticides/Development of Risk-Based Clean-up Levels for Nursery, South San Francisco, CA

Remedial Investigations/Feasibility Studies
- Two Former Orchard Properties with Residual Lead Arsenate in On-Site Soils, San Jose, CA
- Case Closure for Former Shopping Center Fuel/Solvent Leak Site, Mountain View, CA
- 20,000-Gallon Gasoline Spill at Car Wash; South San Francisco, CA

Construction Management/Remediation Services
- Soil Remediation by Soil Vapor Extraction for LUFT Site, San Jose, CA
- Ground Water Remediation and NPDES Permitting for Intel/Micro Storage Superfund (NPL) Site, Santa Clara, CA
- DDT Remediation Services at Former Nursery, South San Francisco, CA

Remedial Design Services
- Ground Water Pump and Treat System at LUFT Site, San Jose, CA
- Ground Water Pump and Treat/Soil Vapor Extraction System at Residential LUFT Site, San Mateo, CA
- DDT Remediation at Former Nursery, South San Francisco, CA

Environmental Compliance and Hazardous Materials Management
- DTSC Five-Year Review for Former Coal Gas Facility, Santa Clara, CA
- Oversight of Hazardous Materials Management for Disk Plating Facility, Santa Clara, CA
- Review of Hazardous Materials Management for High-Tech Facility, Mountain View, CA

Hazardous Materials Facility Closures
- Closure Review and Additional Characterization for Former Plating Facility, Santa Clara, CA
- Complete Facility Closure for Former Disk Plating Facility, Santa Clara, CA
- Facility Closure for Former Semiconductor Manufacturing Facility, Santa Clara, CA

Storm Water Pollution Prevention/Monitoring Plans and Storm Water Monitoring
- SWPPP Preparation for Construction of Golf Club, San Jose, CA
- SWPPP/SWMP Preparation and Annual Monitoring/Reporting for Debris Reclamation Site, Brisbane, CA

Water Treatment System Monitoring/Compliance Assistance
- Monthly Coliform Monitoring at Fruit/Vegetable Packing Company, San Jose, CA
- Management and Monitoring for Recyclery Potable Water System, Milpitas, CA

Air Quality Evaluations
- Emissions Testing and Reduction of Emission for Fruit/Vegetable Packing Company, San Jose, CA
- Indoor Air Quality Evaluation for R & D Building, Santa Clara, CA

Other Projects
- Hazardous Materials Usage Review for Proposed Medical Facility Expansion, San Jose, CA
- Methamphetamine Wipe Sampling for Former Drug Lab, San Jose, CA
- Lead Abatement Project for Radio Transmitter Tower, Redwood Shores, CA
- Consulted on Toxic Mold Presence in Residential Dwelling, San Francisco Bay Area, CA

RGA ENVIRONMENTAL

Solutions for a Healthy Environment

SERVICES

- Worker Health and Safety
- OSHA Training and Compliance
- Safety Audits
- Ergonomics
- IIPP and Specialized Programs
- Hazard Communication
- Fleet Safety
- Indoor Air Quality
- Mold Consulting
- Moisture Management Plans
- Industrial Hygiene
- Asbestos and Lead Management
- Hazardous Materials
- Environmental Site Assessments Phase I,II III
- Risk Management
- Subsurface Investigation
- Litigation Support

Limited Asbestos and Lead Survey Report

Ashland Housing Project
16305, 16309, 16325, 16331, 16331A, 16333
Kent Avenue
San Lorenzo, California

RGA Project No: RCD27554

May 4, 2011

Prepared for:

Deni Adaniya
Associate Director of Housing
Resources for Community Development
2220 Oxford Street
Berkeley, CA 94704

Prepared by:

RGA Environmental, Inc.
1466 66th Street
Emeryville, CA 94608

Report Prepared by: Marlin J. Bryant Marlin Bryant
Cal-OSHA CAC #92-0596 CDPH Lead Inspector #42

Participating Inspectors: _____ Mike Bishop
Cal-OSHA CAC #07-4275 CDPH Lead Sampling Technician #20519

Participating Inspectors: M. Reed Mike Reed
Cal-OSHA CSST #08-4464 CDPH Lead Sampling Technician #20534

LIMITED ASBESTOS AND LEAD SURVEY REPORT
ASHLAND HOUSING PROJECT
14TH STREET AT KENT AVENUE
SAN LORENZO, CALIFORNIA

TABLE OF CONTENTS

SECTION **PAGE NO.**

1 INTRODUCTION 1
1.1 PURPOSE 1
1.2 SITE ADDRESSES AND STRUCTURE DESCRIPTIONS 1

2 ASBESTOS-CONTAINING MATERIAL 2
2.1 ASBESTOS SURVEY AND ANALYSIS METHODS 2
2.2 ASBESTOS SURVEY RESULTS 3
16309 Kent Avenue, Bath Structure #5 (one of seven) 3
16325 Kent Avenue (Residence 3B/2B – 1,800 sf) 4

3 LEAD IN PAINT AND SOIL SURVEY 5
3.1 LEAD CONTAINING PAINT SURVEY AND ANALYSIS METHODS 5
3.2 LEAD CONTAINING PAINT SURVEY RESULTS 5
16309 Kent Avenue (Bath Structures) 5

4 LEAD IN SOIL SURVEY RESULTS 7
4.1 LEAD IN SOIL SURVEY AND ANALYSIS METHODS 7
4.2 LEAD IN SOIL SURVEY RESULTS 7
16309 Kent Avenue (Barn) 7
16333 Kent Avenue (Residence-Modular) 7

5 OTHER OBSERVED HAZARDOUS MATERIALS/WASTE 9
16309 Kent Avenue (14-car Metal Shed) 9
16309 Kent Avenue (west of Trailer #17) 9
16325 Kent Avenue (Fenced Back Yard) 9

6 CONCLUSIONS AND RECOMMENDATIONS 10
6.1 CONCLUSIONS 10
6.2 RECOMMENDATIONS 10

7 LIMITATIONS 12

TABLE

Table 1 - Summary of Asbestos Survey Results
Table 2 - Summary of Lead in Paint Survey Results
Table 3 – Summary of Lead in Soil Survey Results

APPENDICES

A Sample Location Diagrams
B Asbestos Chain of Custody Forms and Laboratory Analysis Reports
C Lead in Paint Chips Chain of Custody Forms and Laboratory Analysis Reports
D Lead in Soil Custody Forms and Laboratory Analysis Report
E Lead Inspection Notifications to California Department of Public Health
F Site Photos

1 INTRODUCTION

1.1 PURPOSE

This report presents the results of RGA's Limited Asbestos and Lead Survey conducted on April 26, 2011 of thirteen accessible site structures located on the proposed site of the Ashland Housing Project. The subject site consists of four single family residences, one renovated barn housing a community room & laundry, 15 mobile homes and attached miscellaneous structures, a 14-car storage shed, and seen bath/shower/washroom structures. The purpose of the survey was to evaluate the location, condition, and quantity of ACM and lead present at the site that might be disturbed during future site development and/or require special waste packaging or handling prior to disposal.

1.2 SITE ADDRESSES AND STRUCTURE DESCRIPTIONS

Site addresses and structure descriptions include:

Address	Occupant	Building Type	Approximate Area
16305 Kent Ave	Residence	One-story 1B/1B	900 sf
16309 Kent Ave	Bath Structures (6)	One-story 2B/2S	100 sf
16309 Kent Ave	Bath/Wash Room	One-story 2B/2S	300 sf
16309 Kent Ave	Mobile Homes (15)	Not Surveyed	various
16309 Kent Ave	Unit #8 One-Car Garage	Not Surveyed	400 sf
16309 Kent Ave	14-car Metal Shed	One-story	2000 sf
16309 Kent Ave	Barn/Laundry/Garage	Two-story	1600 sf
16325 Kent Ave	Residence and Garage	One/one half-story 3B/2B	1800 sf
16331A Kent Ave	Residence	One-story 2B/1B	900 sf
16333 Kent Ave	Residence	One-story 1B/1B	900 sf

2 ASBESTOS-CONTAINING MATERIAL

2.1 ASBESTOS SURVEY AND ANALYSIS METHODS

On April 26, 2011, RGA conducted a visual survey and collected bulk samples of suspected asbestos containing material (ACM) at the subject site. The RGA survey was conducted by Marlin Bryant (CAC# 92-0596) with assistance of Mike Bishop (CSST# 07-4275) and Mike Reed (CSST# 08-4464). The surveys were completed in general accordance with AHERA methods (40 CFR, Part 763) as a guideline.

Survey procedures included the visual observation and identification of building materials suspected of containing asbestos, collection of representative bulk samples, and physical assessment/quantification of the suspect materials. The physical assessment of suspected asbestos-containing materials was conducted to determine if the material is friable and to assess if the material is damaged. According to AHERA, a "friable" material can be reduced to dust or powder with hand pressure. Examples of friable materials may include but are not limited to fire- proofing, sprayed-on acoustical ceiling material, paper backing on sheet vinyl flooring and some thermal system insulation. Concern related to exposure to airborne asbestos fibers from ACMs in buildings has primarily been focused on friable asbestos products.

Materials that contain tightly bound asbestos fibers are reported as “non-friable”. A "non-friable" material contains asbestos fibers which have been locked-in by a bonding agent, coating, binder, or other material, so that fibers are not released during appropriate use or handling. Vinyl floor tile and flooring mastics are two examples of non-friable materials. Fiber release is less likely to occur with a non-friable material. Non-friable materials that are not damaged and are left undisturbed are not expected to represent an asbestos exposure risk. Both friable and non-friable materials can present a health hazard should they become disturbed or damaged (e.g., during renovation or demolition activities).

ACM in good condition are those that have no visible damage or deterioration. ACM in good condition does not present a health hazard if maintained in such a condition and left undisturbed. An ACM observed to be damaged (less than 10 percent over total area or 25 percent localized) has the potential to release asbestos fibers if disturbed. An ACM observed to be significantly damaged (greater than 10 percent over total area or greater than 25 percent localized) has the potential to release asbestos fibers during normal use.

Bulk samples were collected in general accordance with AHERA guidelines. Each sample was placed into a plastic bag and labeled with a unique sample number. The location of the sample was noted on a map of the building and logged onto a chain-of-custody form. The samples were delivered to RGA Environmental Laboratory in

Seattle, Washington. RGA is certified through EPA's National Voluntary Laboratory Accreditation Program (NVLAP).

2.2 ASBESTOS SURVEY RESULTS

A total of fifty-one (51) bulk samples were collected of thirty-one (31) homogeneous areas of suspect asbestos containing material (ACM). Each accessible structure was surveyed separately with their results summarized in this summarized in this single report. All suspect ACM was observed to be in good condition. The 15 mobile homes and their associated structures were not generally accessible at the time of the survey and subsequently have been excluded from this summary report with the exception of the 14-car metal shed, four of the bath structures, and the washroom portion of the west bath structure-washroom combined building. Prior to future renovation or demolition, each of the structures excluded from this survey may be required by the Bay Area Air Quality District (BAAQMD) to be inspected for the presence of ACM.

Based on the visual observations by RGA's certified inspectors and an evaluation of the laboratory analysis results, RGA concludes that no ACM is present in the surveyed site structures with the exception of the following approximate quantity of assumed and confirmed ACM:

<u>16309 Kent Avenue, Bath Structure #5 (one of seven)</u>

- 20 square feet of 9-inch vinyl floor tile with associated black mastic on the floor of the west half of Bath Structure #5 reported by the analytical laboratory as containing 2% chrysotile asbestos in both tile and mastic. Removal of this non-friable asbestos containing material (ACM) would be considered Class II asbestos work expected to generate non-hazardous, Category I ACM waste.

- 200 square feet of 9-inch vinyl floor tile with associated black mastic is "assumed" to be present on the floors of the following portions of Bath Structures 1E, 2W, 3E, 3W, 6E, 6W, 7NE, 7NW, 7SE, 7SW that were not accessible during the survey due to their enclosure by adjacent mobile home residents who use them as part of their residential dwelling. The Bath Structures were reported by the owner as having been constructed prior to 1978. In the absence of sampling data, the structures must be assumed by RGA to contain ACM flooring and associated mastic similar to Bath Structure #5. Removal of this non-friable asbestos containing material (ACM) would be considered Class II asbestos work expected to generate non-hazardous, Category I ACM waste.

<u>16309 Kent Avenue (15 Mobile Homes and Associated Structures)</u>

- Until appropriately surveyed, these structures are assumed to contain asbestos in roofing material, roof mastic, window putty, joint compound on interior drywall,

adhesive associated with glued on interior wall panels, floor tiles and associated mastic, and acoustic ceiling tiles.

16325 Kent Avenue (Residence 3B/2B – 1,800 sf)

- 3000 square feet of textured surfacing material on interior walls throughout the structure reported by the analytical laboratory as containing 2% chrysotile asbestos. Removal of this friable Regulated Asbestos Containing Material (RACM) would be considered Class I asbestos work expected to generate friable, hazardous RACM waste.

A summary of the analytical results for the bulk samples of suspect ACM collected as part of this survey is provided in Table I of this report. A copy of the asbestos sample chain of custody forms and analytical laboratory reports are available in Appendix B. Suspect asbestos bulk sample locations are depicted in diagrams available in Appendix A. Site photos are available in Appendix F.

3 LEAD IN PAINT AND SOIL SURVEY

3.1 LEAD CONTAINING PAINT SURVEY AND ANALYSIS METHODS

On April 26, 2011, RGA conducted a visual survey and collected paint chip of predominant paints and coatings on building components of site structures and representative composite surface soil samples for bare soil areas at or near structure drip lines for analysis of lead content. The RGA survey was conducted by Marlin Bryant (CDPH Lead Inspector # 41) with assistance of Mike Bishop (CDPH Lead Sampling Technician #20519) and Mike Reed (CDPH Lead Sampling Technician #20534. A physical assessment of painted surfaces was conducted to determine if the paint was intact or damaged. Damaged paint appears as cracked, chipped and/or peeling away from the substrate as a result of moisture, wear, heat and/or age. Materials that did not exhibit any of these conditions were recorded as intact.

In accordance with EPA and CDPH protocols, RGA collected each paint chip sample material down to the substrate. Each sample was collected, placed into a hard-shell container with screw-on tip, and assigned a unique sample identification number. The paint chip samples were submitted to RGA Environmental of Seattle, Washington for analysis of lead content in accordance with the EPA's Standard Operating Procedures for Lead in Paint by Atomic Adsorption Spectroscopy (AAS).

A summary of paint chip samples collected, the sample locations, lead content, and condition assessments are summarized on Table 2. Copies of the analytical laboratory reports and chain-of-custody forms are included in Appendix C. Copies of the lead inspection notification to the CDPH is provided in Appendix D. Site photos are available in Appendix F.

3.2 LEAD CONTAINING PAINT SURVEY RESULTS

Based on visual observations and an evaluation of the laboratory analysis report for paint chip samples collected and analyzed, RGA concludes that substantially intact "lead-based paint" (>5000 ppm lead) is present on the following surfaces at the site:

<u>16309 Kent Avenue (Bath Structures)</u>

- 8,500 ppm lead in white paint on exterior concrete walls
- 17,000 ppm lead in white paint on window frames

Under current Cal/OSHA regulations, definitions of “lead-containing paint”, “lead-based paint” or “lead-containing construction material” have not been established. The Cal/OSHA lead-in- construction standard (Title 8 California Code of Regulations Section 1532.1) applies to all construction work where an employee may be occupationally exposed to lead. The Consumer Products Safety Commission limits the amount of lead in paints manufactured for residential use to 0.009 percent in dry paint. Under the lead-in-construction standard, a “negative” exposure assessment may be established for work involving coatings or paint containing less than 0.06 percent lead, if the work does not include certain “trigger tasks” established in the standard. The U.S. Department of Housing and Urban Development and the California Department of Health Services define “lead-based paint” as “paint or other surface coating” containing more than 1.0 milligram lead per square centimeter of surface (mg/cm^2) or more than 0.5 percent lead by weight.

4 LEAD IN SOIL SURVEY RESULTS

4.1 LEAD IN SOIL SURVEY AND ANALYSIS METHODS

On April 26, 2011, RGA conducted a visual survey and collected composite surface soil samples of bare soil from accessible drip-lines and child play areas adjacent to major site structures. No attempt was made to sample soil beneath landscaping, grass, gravel, or asphalt. The RGA lead in soil survey was conducted by Marlin Bryant (CDPH Lead Inspector # 41).

In accordance with EPA and CDPH protocols, RGA collected a total of ten (10) composite surface soil samples and placed each into a hard-shell, plastic 100 milliliter centrifuge tube with a screw on cap and assigned a unique sample identification number. A single composite soil sample consisted of one to four tablespoon-sized samples of clean soil (no rocks, sticks, or debris) that were combined into a single sample.

Soil samples were transported to McCampbell Analytical Laboratory in Pittsburg, California for analysis of lead content using the Flame Atomic Absorption spectroscopy in accordance to EPA Method SW846-3050B-7420. The laboratory is accredited by the CDPH ELAP and participates in the Department of Health and Human Services Proficiency Analytical Testing (PAT) for the analysis of lead. A summary of lead in soil sample locations, lead content, and condition assessments is provided in Table 3. Copies of the analytical laboratory reports and chain-of-custody forms are included in Appendix D. A copy of the lead inspection notification to the CDPH is provided in Appendix E.

4.2 LEAD IN SOIL SURVEY RESULTS

Based on visual observations and an evaluation of the laboratory analysis report for lead in soil samples collected and analyzed, RGA concludes that lead impacted soil is present in surface soil at the following site locations:

<u>16309 Kent Avenue (Barn)</u>

- 400 ppm lead in surface soil at drip line

<u>16333 Kent Avenue (Residence-Modular)</u>

- 1,300 ppm lead in north flower bed

The U.S. Department of Housing and Urban Development (HUD) classifies soil containing lead levels greater than 400 ppm as “hazardous” in high-contact areas (i.e., sandboxes and gardens). The California Department of Health Services (DHS) defines lead-contaminated soil in children’s play areas as soil containing greater than or equal to 400 ppm lead.

.

5 OTHER OBSERVED HAZARDOUS MATERIALS/WASTE

During the building survey, the inspector observed a number of potentially hazardous materials that should be properly handled and disposed of. Approximate quantities of these materials include:

16309 Kent Avenue (14-car Metal Shed)

- 1 each 50-gallon drum of used oil;
- 5 each 5-gallon buckets of used oil and paint;
- 10 each quart containers of used oil;
- Miscellaneous petroleum coated metal cans and pans;
- 1 each abandoned motorcycle;
- 50 square feet of petroleum stained soil.

16309 Kent Avenue (west of Trailer #17)

- 1 each underground storage tank of unknown size with 4-foot by 4-foot wood cover (reportedly a sand-filled water cistern).

16325 Kent Avenue (Fenced Back Yard)

- 1 each abandoned automobile;
- 1 each 50-gallon drum of with unknown contents;

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

RGA understands that the subject site is under consideration for development a residential housing project referred to as the Ashland Housing Project. Based on RGA's visual observations and review of the laboratory analysis reports for samples of suspected ACM, suspected lead containing paint, and suspected lead containing bare soil, RGA concludes that asbestos containing material (ACM) in good condition, substantially intact lead-based paint (LBP) and lead-containing paint (LCP), lead containing soil, an underground storage tank, and a variety of potentially hazardous petroleum-impacted soil, containers, and equipment are present at the subject sites. Prior to the renovation or demolition of site structures, the aforementioned ACM, lead containing soil, and potentially hazardous materials should be properly removed, recycled, and/or disposed of by properly certified contractors using approved methods in accordance with all applicable federal, state, and local regulations.

6.2 RECOMMENDATIONS

Since planned site develop may disturb ACM, LBP, LCP, lead in soil, and/or a variety of other potentially hazardous materials observed at the subject site, RGA offers the following recommendations:

1. The site owner should provide notification to employees, contractors, subcontractors, and tenants of the site structures as to the presence, location, and quantity of ACM, LBP, and lead in soil at the site within 15 days of receiving this information.

2. Prior to renovation or demolition of the 15 mobile homes and associated structures (including inaccessible bath structures) not included in this survey, the site owner should engage the services of a Cal-OSHA certified asbestos consultant to conduct appropriate asbestos survey/s in compliance with applicable regulations.

3. All ACM present in site structures should be removed prior to disturbance by construction activities by a properly licensed asbestos abatement contractor employing only properly trained and currently certified asbestos personnel who apply appropriate work practices in accordance with current local, State, and Federal asbestos regulations.

4. Prior to future work at the site that may disturb asbestos in "any amount", Cal-OSHA requires advanced written notification from the subject contractor of their "Intent to Conduct Asbestos Related Work."

5. A 10 working day advance written notification and payment of appropriate fees are required by the Bay Area Air Quality Management District (BAAQMD) for every demolition project within their jurisdiction, even when no ACM is present, and for each renovation project where the amount of friable ACM is equal to or greater than 160 lineal feet or 260 square feet.

6. Contractors disturbing lead-based and lead-containing paint should implement appropriate lead related work practices in accordance with applicable Cal-OSHA worker exposure regulations to include, at a minimum of lead awareness training for all site workers and provision of hand-washing stations at the work site.

7. Contractors disturbing lead-based paint on building components must do so in compliance with applicable regulations of California Department of Occupational Safety and Health, including the submission of an advance notification to the local Cal-OSHA office of their "Intent to Conduct Lead-Related Construction Activity."

8. The approximately 600 square feet (to a depth of no less than 3-inches) of lead-impacted soil present at the drip-line of the 16309 Kent Avenue Barn and in the flower bed (garden) of the 16333 Kent Avenue residence should be removed from the site by a properly licensed contractor and disposed of at an appropriate landfill in accordance with applicable regulations. Remaining soil should be capped with grass, asphalt, or concrete to minimize contact by children.

9. The fluorescent lights tubes, fluorescent light ballasts, and refrigeration units commonly contain small amounts of mercury, PCBs, and refrigerants. The contractor for the project should be advised to properly recycle/dispose of these items prior to building demolition and in accordance with applicable regulations. A California licensed hazardous waste hauler should transport these items from the site to an appropriate landfill.

10. It is the client's responsibility to assess the potential risk of each reported site condition and balance their desired end result with the projected cost of implementing some or all of RGA's recommendations. RGA is available to assist the client in securing their desired end result by insuring that all recommend work is done in accordance with current regulations and guidelines.

7 LIMITATIONS

RGA performed this survey in accordance with generally accepted standards of care practiced by other members of our profession in Northern California at the time the work was completed. The completed survey was limited to the areas sampled and the number of samples collected. Our findings are limited to the conditions and results reported for the time the survey was completed. No warranty, expressed or implied, is made.

Estimated quantities of ACM, lead in paint, lead containing soil, and potentially hazardous materials have been provided as rough estimates only, and have been based upon field measurements obtained during the course our asbestos survey. The findings of this hazardous materials survey report are not intended to be used as hazardous materials abatement specifications, and should not be used as such.

The scope of services described here is not intended to be inclusive, to identify all potential concerns, or to eliminate the possibility of other environmental problems. Within current technology, no level of assessment can show conclusively that a property or its structures are completely free of hazardous substances. Therefore, RGA cannot offer a certification that the property is free of environmental liability. RGA will assume no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury which results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials.

TABLE 1
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
ASHLAND HOUSING PROJECT
SAN LORENZO, CALIFORNIA

Sampling Date: April 26, 2011

All quantities listed are approximate and some quantities represent like kind material observed.

Sample No.	Sample Location	Sample Description	Chrysotile Asbestos Content	Condition/ Friability	Area (sf)
01 A, B, C	16305 Kent Avenue Bath, Living Room, Kitchen Walls	Texture on Drywall	None Detected	G/F	1,000
02A	16305 Kent Avenue Living Room	Joint Compound on Drywall Wall System	None Detected	G/F	1,000
03A	16305 Kent Avenue Roof	Penetration Mastic	None Detected	G/NF	6
04A	16305 Kent Avenue Roof (Main Field)	Roofing Material	None Detected	G/NF	900
SWP-A	16309 Kent Avenue Bath Structure Unit 2 South Window	Window Putty	None Detected	G/NF	12 each
SWP-B	16309 Kent Avenue Bath Structure Unit 3 South Window				
SWP-C	16309 Kent Avenue Bath Structure Unit 4 North Window				
SEC	16309 Kent Avenue Bath Structure Unit 5 South Exterior Wall	Painted Concrete	None Detected	G/NF	2,100
SPT	16309 Kent Avenue Bath Structure # 5 Floor	9-inch vinyl floor tile with black mastic	Tile: 2% Mastic: 2% CAT 1	G/NF	20

Notes: lf = linear feet sf = square feet G = Good F= Friable NF= Not Friable
> = Greater Than CAT = Category RACM = Regulated Asbestos Containing Material

© 2011 RGA Environmental

TABLE 1
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
ASHLAND HOUSING PROJECT
SAN LORENZO, CALIFORNIA

Sampling Date: April 26, 2011

All quantities listed are approximate and some quantities represent like kind material observed.

Sample No.	Sample Location	Sample Description	Chrysotile Asbestos Content	Condition/ Friability	Area (sf)
Not Sampled	16309 Kent Avenue Bath Structures Units 1E, 2W, 3E, 3W, 6E, 6W, 7NE, 7NW, 7SE, 7SW (Not Accessible)	9-inch vinyl floor tile with associated black mastic	Assumed Tile: 2% Mastic: 2% CAT 1	G/NF	200
1 A, B, C	16309 Kent Avenue Barn Laundry Room, Living Room, 2nd Floor Bedroom	Texture on Drywall	None Detected	G/F	2,400
02 A, B	16309 Kent Avenue Barn Laundry, Living Room	Joint Compound on Drywall Wall System	None Detected	G/F	2,400
03A	16309 Kent Avenue Barn Roof (Main Field)	Asphalt Roof Shingles	None Detected	G/NF	1,200
Not Sampled	16309 Kent Avenue 15 Mobile Homes & Associated Structures (Not Accessible)	Joint Compound on Drywall Wall System	Presumed > 1%	Unknown/ NF	5,000
		Acoustic Ceiling Tile		Unknown/ F	1,000
		Floor Tile and Mastic		Unknown/ NF	1,000
		Roofing		Unknown/ NF	500
01 A, B, C	16325 Kent Avenue Exterior Walls SW, S, NE	Painted Stucco	None Detected	G/NF	2,400
02A	16325 Kent Avenue Roof (Main Field)	Asphalt Roof Shingle	None Detected	G/NF	1,200
03A	16325 Kent Avenue Roof Penetrations	Roof Mastic	None Detected	G/NF	6

Notes: lf = linear feet sf = square feet G = Good F= Friable NF= Not Friable
> = Greater Than CAT = Category RACM = Regulated Asbestos Containing Material

© 2011 RGA Environmental

TABLE 1
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
ASHLAND HOUSING PROJECT
SAN LORENZO, CALIFORNIA

Sampling Date: April 26, 2011

All quantities listed are approximate and some quantities represent like kind material observed.

Sample No.	Sample Location	Sample Description	Chrysotile Asbestos Content	Condition/ Friability	Area (sf)
04 A, B, C	16325 Kent Avenue Living Room, Kitchen, 2nd Floor Bedroom Walls	Texturing on Drywall	Texturing: 2% RACM	G/F	3,000
05A	16325 Kent Avenue Laundry Room	Vinyl Sheet Flooring	None Detected	G/F	300
06 A, B, C	16325 Kent Avenue Living Room and Laundry Room	Texturing, Joint Compound on Drywall Wall System	Texturing: 2% RACM	G/F	Part of 3,000
07A	16325 Kent Avenue 1st Floor Den Under Carpet	Vinyl Floor Tile with Mastic	None Detected	G/NF	375
08A	16325 Kent Avenue 2nd Floor Bath	Linoleum	None Detected	G/F	60
09A	16325 Kent Avenue Kitchen Base Cove	Texturing and White Mastic	Texture: 2%	G/F	Part of 3,000
02 A, B, C	16331 Kent Avenue Laundry Room, Bedroom 2, Front Entry Closet	Interior Plaster	None Detected	G/F	6,000
03A	16331 Kent Avenue Laundry Room Floor	Mortar & Grout	None Detected	G/NF	200
04 A, B, C	16331 Kent Avenue Exterior Wall West, North, East	Painted Stucco	None Detected	G/NF	2,000
05A	16331 Kent Avenue Roof	Asphalt Shingle	None Detected	G/NF	3,500
01 A, B, C	16331A Kent Avenue Hallway, Living Room, Bedroom 2	Texture on Drywall	None Detected	G/F	2,000

Notes: lf = linear feet sf = square feet G = Good F= Friable NF= Not Friable
> = Greater Than CAT = Category RACM = Regulated Asbestos Containing Material

© 2011 RGA Environmental

TABLE 1
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
ASHLAND HOUSING PROJECT
SAN LORENZO, CALIFORNIA

Sampling Date: April 26, 2011

All quantities listed are approximate and some quantities represent like kind material observed.

Sample No.	Sample Location	Sample Description	Chrysotile Asbestos Content	Condition/ Friability	Area (sf)
02A	16331A Kent Avenue Front Closet	Texture and Joint Compound on Drywall Wall System	None Detected	G/F	Part of 2,000
03A	16331A Kent Avenue Roof	Asphalt Shingles	None Detected	G/NF	1,200
01 A, B, C	16333 Kent Avenue Living Room Walls North, East, South	Texture on Drywall	None Detected	G/F	400
02A	16333 Kent Avenue Living Room Wall Northeast	Texture & Joint Compound on Drywall Wall System	None Detected	G/F	Part of 400
03A	16333 Kent Avenue Roof	Asphalt Shingles	None Detected	G/NF	900
04A	16333 Kent Avenue Kitchen	Linoleum (sheet vinyl flooring)	None Detected	G/F	100

Notes: lf = linear feet sf = square feet G = Good F= Friable NF= Not Friable
> = Greater Than CAT = Category RACM = Regulated Asbestos Containing Material

© 2011 RGA Environmental

TABLE 2
SUMMARY OF LEAD IN PAINT CHIP
ANALYTICAL RESULTS
ASHLAND HOUSING PROJECT
SAN LORENZO, CALIFORNIA

Sampling Dates: April 26, 2011
Analytical results obtained by Flame Atomic Absorption Spectrometry
**Greater than 5,000 mg/mg or 0.5% lead content = lead-based paint

Sample No.	Material Location	Sample Description	Analytical Result mg/kg lead	Analytical Result (% lead)	Condition
Pb-1	16325 Kent Avenue Exterior of Front Porch Trim	White paint of wood	2,100	0.21	Intact
Pb-2	16325 Kent Avenue Exterior Wall	White paint on wood	83	0.008	Intact
Pb-1	16331 Kent Avenue Backyard Shed Trim	White paint on wood	1,200	0.12	Intact
Pb-2	16331 Kent Avenue Exterior Wall	White paint on stucco	<49	<0.004	Intact
Pb-3	16331 Kent Avenue Exterior Window Trim	White paint on wood	<47	<0.004	Intact
BS-1P	16309 Kent Avenue Bath Structure Interior Wall	White over red paint on concrete	3,200	0.32	Intact
BS-2P	16309 Kent Avenue Bath Structure #2 Exterior Wall	White paint on concrete	8,500	0.8	Intact
BS-3P	16309 Kent Avenue Bath Structure #3 Window Frame	White paint on wood	17,000	1.7	Intact

Notes: < = Greater Than mg/kg = milligrams per kilogram

TABLE 3
SUMMARY OF LEAD IN SOIL
ANALYTICAL RESULTS
ASHLAND HOUSING PROJECT
SAN LORENZO, CALIFORNIA

Sampling Dates: April 26, 2011
Analytical results obtained by Flame Atomic Absorption Spectrometry

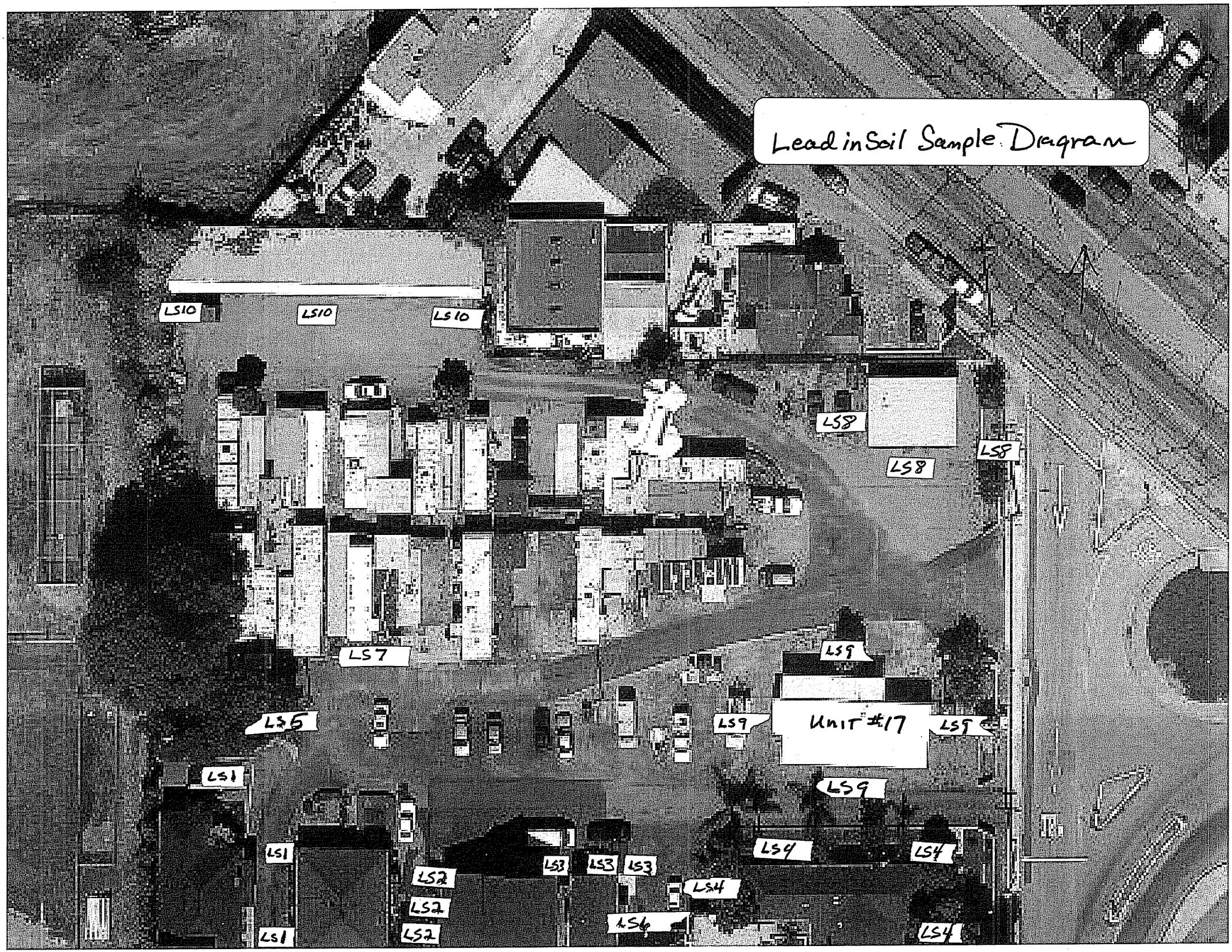
Sample No.	Sample Location	Composite Sample Collection Points	Analytical Result mg/kg (ppm) lead	Quantity (sf)
LS-1	16325 Kent Avenue	Drip-line Bare Soil southeast, east, northeast	49	100
LS-2	16309 Kent Avenue Barn	Drip-line Bare Soil southwest, west, northwest	400	500
LS-3	16333 Kent Avenue	Landscape Bare Soil northwest, north, northeast	1,300	100
LS-4	16331 Kent Avenue	Drip-line Bare Soil northwest, north, northeast, east	120	900
LS-5	16309 Kent Avenue Playhouse	Play Area Bare Soil east side	73	40
LS-6	16331A Kent Avenue	Drip-line Bare Soil northeast, north, northwest	70	90
LS-7	16309 Kent Avenue Unit #6	Landscape Bare Soil southwest, south, southeast	37	60
LS-8	16305 Kent Avenue Trailer	Perimeter Bare Soil east, south, west	91	800
LS-9	16309 Kent Avenue Unit #17	Perimeter Bare Soil north, south, east, west	96	900
LS-10	16309 Kent Avenue 14-car Shed	Drip-line Bare Soil southeast, east, southwest	82	600

Note: HUD classifies garden and child play area soil containing >400 ppm lead as "hazardous."

RGA ENVIRONMENTAL

Appendix A

Sample Location Diagrams


Lead in Soil Sample Diagram
LS10
LS10
LS10
LS8
LS8
LS8
LS7
LS9
LS5
LS9
Unit #17
LS9
LS1
LS9
LS1
LS4
LS4
LS3
LS3
LS3
LS2
LS4
LS2
LS4
LS2
LS1
LS4

RGA ENVIRONMENTAL

DAILY LOG

PAGE 1 OF 1

PROJECT NAME:	Ashland Housing	DATE:	4-26-11
RGA PROJECT #:	RCD27554	RGA REPRESENTATIVE:	M. Reed
SITE ADDRESS:			

16305 KENT ST.

TIME & ACTIVITY

12" CERAMIC FLOOR TILE W/ GROUT/MORTAR

DW/JC TEXT. WALLS/CEILINGS 1500 ft²

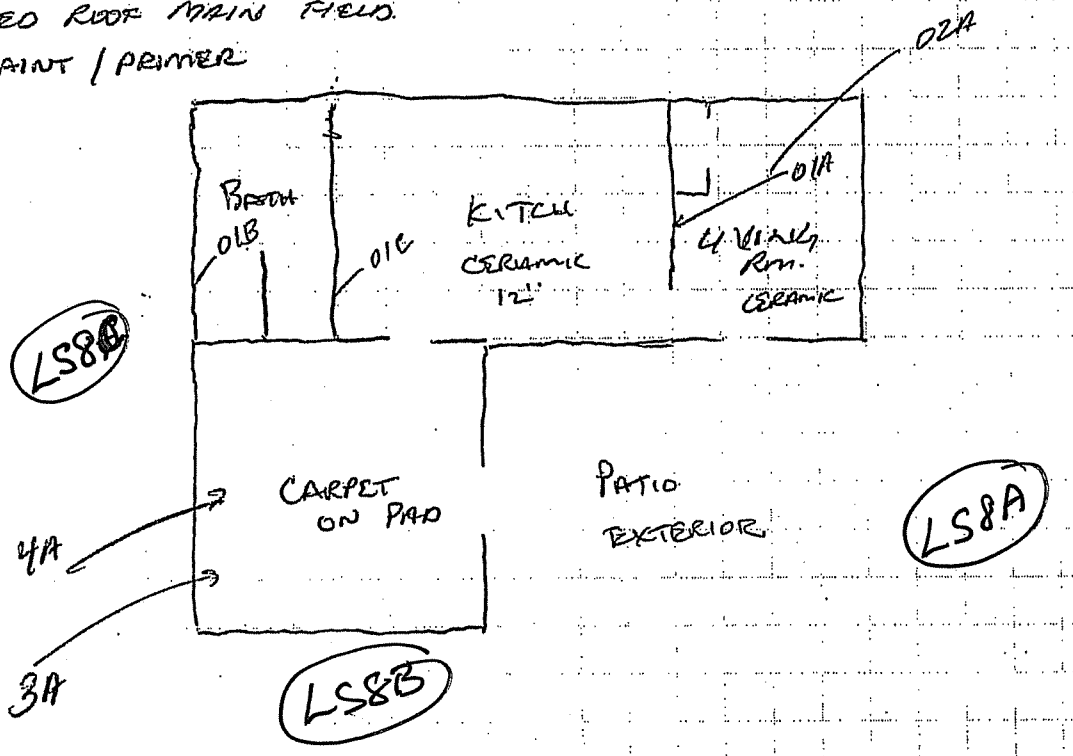
CARPET.

EXTERIOR WOOD SIDE.

ROLLED ROOF MAIN FIELD.

-NO PAINT / PRIMER

N



30' x 30'

RGA
ENVIRONMENTAL

WWW.RGAENV.COM

PAGE _____ OF _____

PROJECT NAME: RCD ASHLand Housing

RGA PROJECT #: RCD27554 DATE: 4/26/11

RGA REPRESENTATIVE: M. Bryant

DESCRIPTION: 16309 Kent Ave

6 Bath Structures + one combo Bath + Laundry

NOTES: Wood Window Frames Painted White
Flat Roofs (wood frame) New Rolled Roofing Cover
Interiors Painted Paneling, Wood Paneling, Painted Concrete
Exterior Concrete Painted
Many enclosed by adjacent Mobile Home
(not accessible)

Concrete Slab Foundations

[X] not accessible

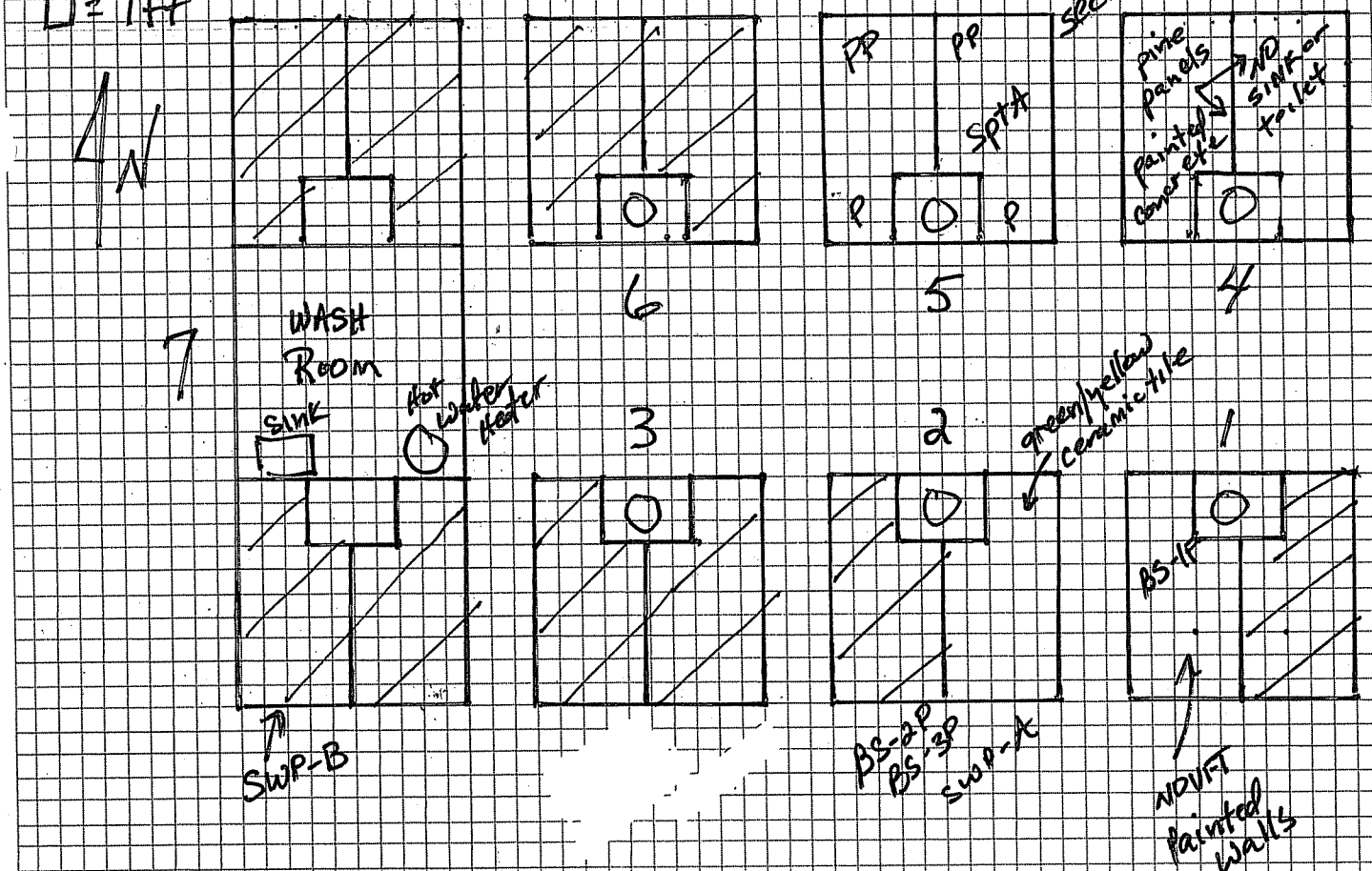
10 X 10 = 6 each

10 X 10 X2 + laundry = 1 each

Split — 2 Showers
2 Sinks
2 Toilets
1 Hot Water Heater

2 windows per unit

□ = 1ft



RGA ENVIRONMENTAL

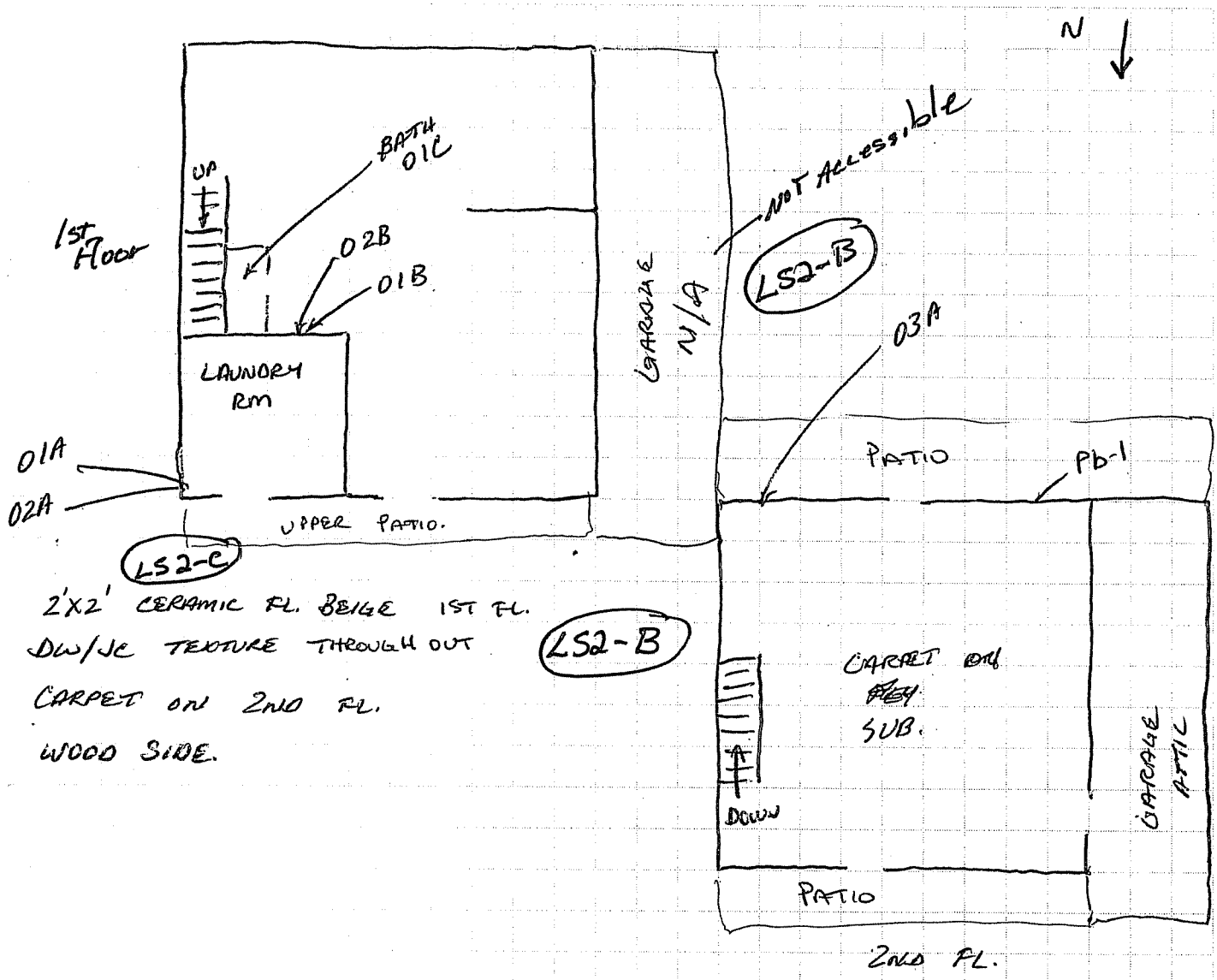
DAILY LOG

PAGE 1 OF 1

PROJECT NAME:	Ashland Housing	DATE:	4-26-11
RGA PROJECT # :	RCD27554	RGA REPRESENTATIVE:	M Reed
SITE ADDRESS:	BARN 16309 KENT ST.		M. Bryant

30' X 40'

TIME & ACTIVITY



2'X2' CERAMIC FL. BEIGE 1ST FL.
DW/JC TEXTURE THROUGH OUT
CARPET ON 2ND FL.
WOOD SIDE.

RGA ENVIRONMENTAL

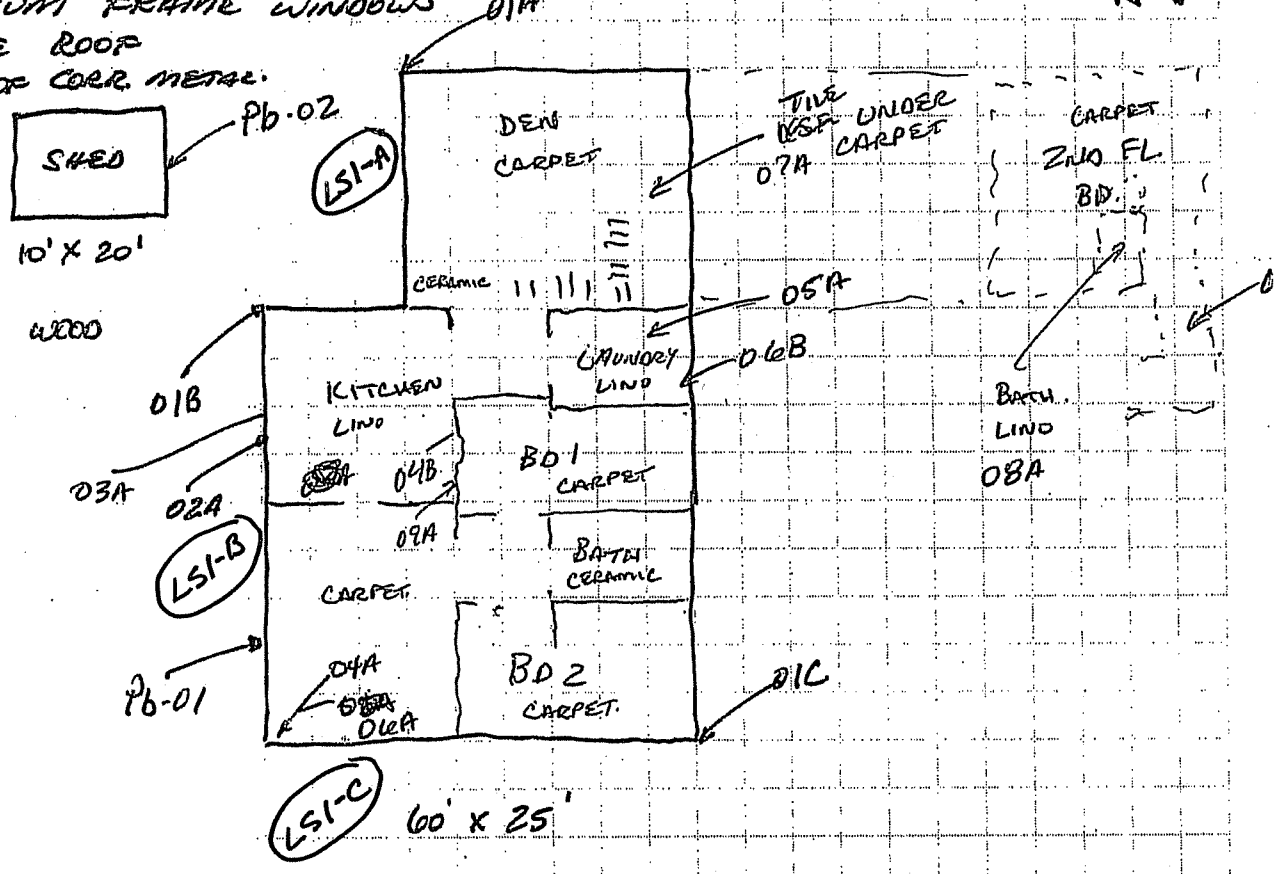
DAILY LOG

PAGE____ OF____

PROJECT NAME:	Ashland Housing	DATE:	4-26-11
RGA PROJECT # :	RCO 27554	RGA REPRESENTATIVE:	M. REED/M. BUSH
SITE ADDRESS:	16325 KENT ST. SAN LORENZO, CA		

TIME & ACTIVITY

- EXTERIOR STUCCO
- ALUMINUM FRAME WINDOWS
- SHINGLE ROOF
- SHED ROOF CORR. METAL.
- SHED WOOD SIDE.



INTERIOR

- TEXT DW
- LINO IN KITCH & LAUNDRY RM.
- 4" BC.
- ✓ - WOOD PANEL WALLS.
- ✓ - 9" CERAMIC FLOOR AT STAIR LANDING
- ✓ - 12" CERAMIC IN 1ST FL. RR.

RGA ENVIRONMENTAL

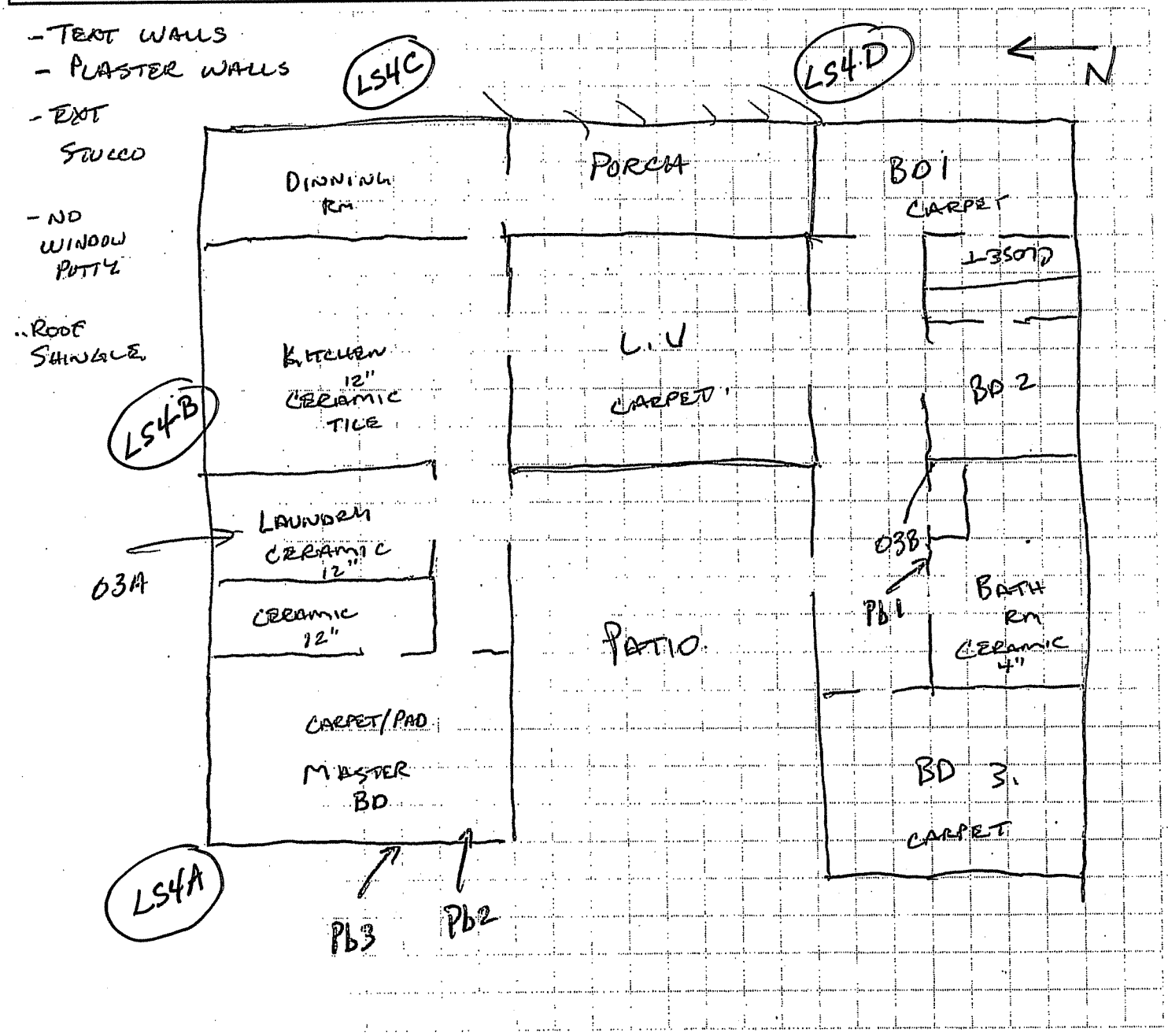
DAILY LOG

PAGE____ OF____

PROJECT NAME:	Ashland Housing	DATE: 4/26/11	
RGA PROJECT # :	RCD27554	RGA REPRESENTATIVE:	M Reed
SITE ADDRESS:			M. Bryant

16331 KENT.

TIME & ACTIVITY



RGA ENVIRONMENTAL

DAILY LOG

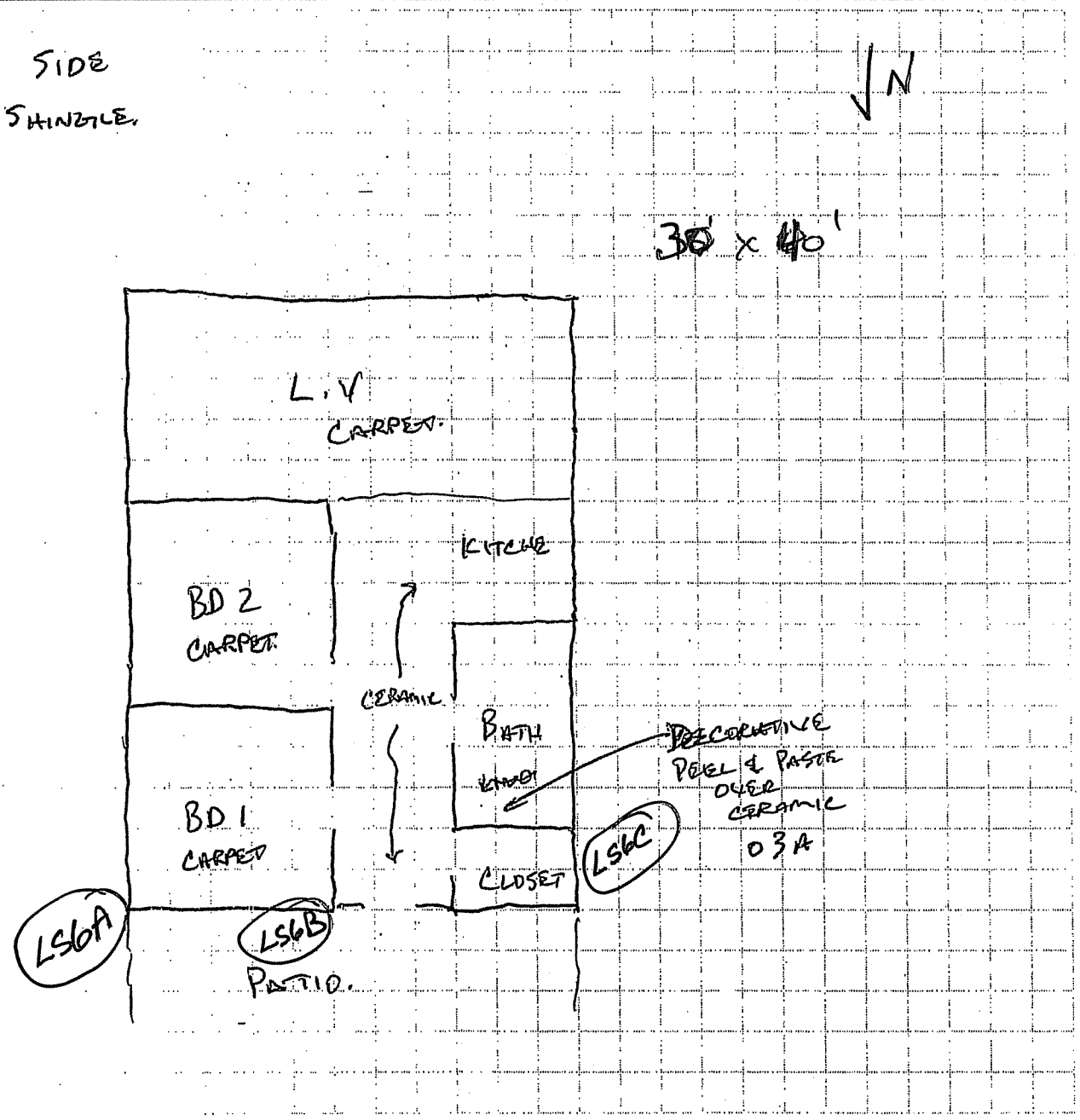
PAGE____ OF____

PROJECT NAME:	Ashland Housing	DATE:	4/26/11
RGA PROJECT # :	RCD27554	RGA REPRESENTATIVE:	M Bryant
SITE ADDRESS:			M. Reed

16331 A Modular Home

TIME & ACTIVITY

WOOD SIDE
ROOF SHINGLE.



RGA ENVIRONMENTAL

DAILY LOG

PAGE 1 OF 1

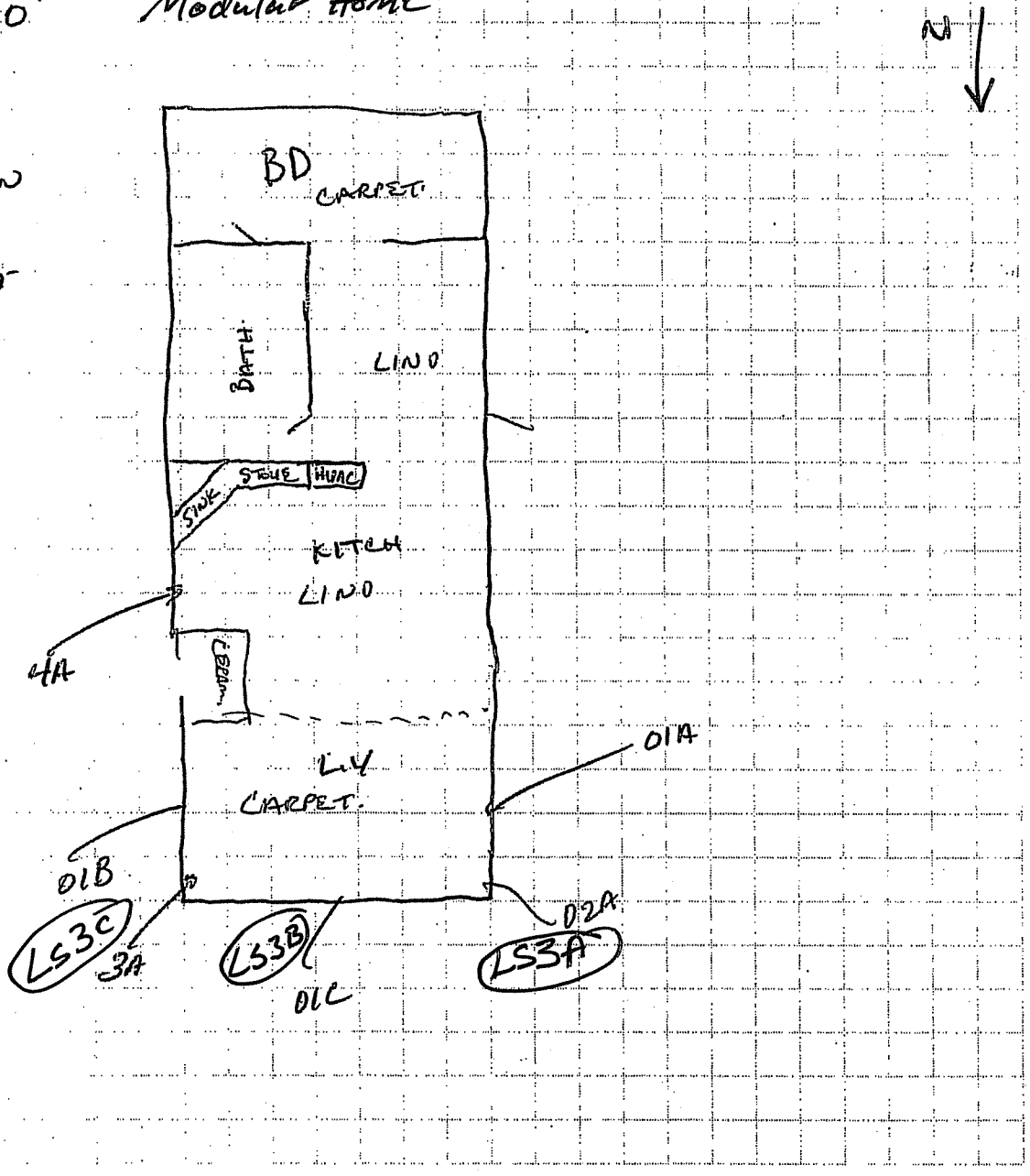
PROJECT NAME:	Ashland Housing	DATE:	4-26-11
RGA PROJECT # :	RCD27554	RGA REPRESENTATIVE:	M. Bryant
SITE ADDRESS:			M. Reed

16333 KENT ST.

TIME & ACTIVITY

15' X 60' Modular Home

- LINO IN KITCHEN
- WOOD SIDING



RGA ENVIRONMENTAL

Appendix B

Asbestos Laboratory Reports

And

Chain of Custody Forms

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: 16305 Kent St.

RGA Batch Number: **11-1156**
RGA Project Number: **RCD27554**
Number of Samples: **6**

Report Key

Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
01A 11011171	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
01B 11011172	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
01C 11011173	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
02A 11011174	L-1 Drywall	**No Asbestos Detected**	15% Cellulose 15% Glass Fiber	55% Gypsum Filler and Binder 10% Calcite Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
03A 11011175	L-1 Black roof penetration mastic	**No Asbestos Detected**	10% Cellulose	85% Asphalt Filler and Binder 5% Mineral Particles
	L-2 White smooth sealant material	**No Asbestos Detected**		75% Resin and Binder 15% Filler and Binder 10% Mineral Particles
04A 11011176	Black fibrous roof main field w/ black rocks	**No Asbestos Detected**	55% Glass Fiber	25% Asphalt Filler and Binder 15% Rocks 5% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Reed
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA
ENVIRONMENTAL

__ PM – S. Steiner
steff@rgaenv.com
fax: 510.899.7051

__PM – K. Schroeter
karin@rgaenv.com
fax: 510.899.7063

__PM – K. Pilgrim
ken@rgaenv.com
fax: 510.899.7053

__PM – T. Kattchee
tedd@rgaenv.com
fax: 510.899.7070

__PM – B. Gils
bob@rgaenv.com
fax: 510.899.7050

__PM – Marlin Bryant
marlin.bryant@rgaenv.com
fax:510.899.7062

11-1156

ACM BULK SAMPLE DATA SHEET

* PLM Analysis
___ Stop Analysis at First Positive
X Analyze All Samples
___ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/Address: 16305 KENT ST.

RGA Project: RCO 27554 **Sampled By:** M. REED / M. BISHOP **Sample Date** 4-26-11

Sample(s) Sent To: (RGA) ___ EMSL ___ Other:_____ TAT: ___Rush ___24Hrs ___3-5 Days

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

ADDITIONAL REPORT RECIPIENT(S):_____

HM# 01	Material Description: TEXTURE ON DRY WALL
Sample ID	Sample Location & Material Location — Quantity: 1,000 ☐
1A	BATHROOM
1B	LIVING ROOM
1C	KITCHEN
HM# 02	Material Description: DW/JC TEXTURE
Sample ID	Sample Location & Material Location — Quantity: 1,000 ☐
2A	LIVING ROOM - (E) WALL
HM# 03	Material Description: ROOF PENETRATION MASTIC
Sample ID	Sample Location & Material Location — Quantity: 6 ☐
3A	
HM# 04	Material Description: ROOF MAINFIELD.
Sample ID	Sample Location & Material Location — Quantity: 900 ☐
4A	
HM#	Material Description:
Sample ID	Sample Location & Material Location — Quantity:
HM#	Material Description:
Sample ID	Sample Location & Material Location — Quantity:

Relinquished By: M. REED **Signature:** M. R **Date/Time:** 4-26-11

Received By: R Alden **Signature:** R **Date/Time:** 4/26/11 1536

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: WRB-mm **Signature:** WRB-mm **Date/Time:** 4/27/11 14:42

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley (City)	CA (State) 94705 (Zip)
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1156
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	6

TYPE OF ANALYSIS

ASBESTOS:	**METALS:**	
____ PCM (air)	____ Paint	____ Soil
__X__ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water

MOLD: P&K __ 100 __ 101 __ 102 __ 105 __ 117

Other Method:

Project Location: 16305 Kent St.

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

Condition: ✓ Good _____ Damaged _____ Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	01A	11011171		11			
2	01B	11011172		12			
3	01C	11011173		13			
4	02A	11011174		14			
5	03A	11011175		15			
6	04A	11011176		16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	Mike B / Mike R	4/26/11	
Relinquished by:	Robin Pate	4/26/11	15:16
Received by:			
Relinquished by:			
Received for Laboratory by:		4/27/11	14:42
Analyzed by:	MH	5/4/11	
Preliminary Results Reported to P.M. by:	MH	5/4/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: Kent St. Barn

RGA Batch Number: **11-1157**
RGA Project Number: **RCD27554**
Number of Samples: **6**

Report Key

Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
01A 11011177	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
01B 11011178	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
01C 11011179	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
02A 11011180	L-1 Drywall	**No Asbestos Detected**	15% Cellulose 15% Glass Fiber	55% Gypsum Filler and Binder 10% Calcite Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
02B 11011181	L-1 Drywall	**No Asbestos Detected**	15% Cellulose 15% Glass Fiber	55% Gypsum Filler and Binder 10% Calcite Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: Kent St. Barn

RGA Batch Number: **11-1157**
RGA Project Number: **RCD27554**
Number of Samples: **6**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
03A 11011182	L-1 Shingle roof field w/ white rocks	**No Asbestos Detected**	15% Glass Fiber	55% Asphalt Filler and Binder 15% Rocks 15% Mineral Particles
	L-2 Shingle roof fields w/ red rocks	**No Asbestos Detected**	15% Glass Fiber	55% Asphalt Filler and Binder 15% Rocks 15% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA
ENVIRONMENTAL

__ PM – S. Steiner steff@rgaenv.com fax: 510.899.7051	__ PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063	__ PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__ PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070	__ PM – B. Gils bob@rgaenv.com fax: 510.899.7050	X PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

11-1157

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

___ Stop Analysis at First Positive

_X_ Analyze All Samples

___ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/Address: Kent Street, Barn

RGA Project: RGA RCD-27554 **Sampled By:** MikeB/MikeR **Sample Date** 4/26/11

Sample(s) Sent To: RGA ___ EMSL ___ Other:_____ TAT: ___Rush ___24Hrs ___3-5 Days

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

ADDITIONAL REPORT RECIPIENT(S):_____

HM# 01	Material Description: Text on DW	
Sample ID	Sample Location & Material Location	Quantity:
01A	Laundry Room	
01B	Living Room 1st Flr.	
01C	2nd Flr. Bedroom	

HM# 02	Material Description: DW & AC UC	
Sample ID	Sample Location & Material Location	Quantity:
02A	1st Flr. Laundry	
02B	" " Living Room	

HM# 03	Material Description: ~~Main~~ Roof Field, Shingle	
Sample ID	Sample Location & Material Location	Quantity:
03A	Main Roof Field	

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: MikeB **Signature:** _____ **Date/Time:** 4/26/11

Received By: RPalmer **Signature:** RP **Date/Time:** 4/26/11 1605

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: W.R. Brown **Signature:** _____ **Date/Time:** 4/27/11 14:46

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley (City)	CA (State) 94705 (Zip)
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1157
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	6

TYPE OF ANALYSIS

ASBESTOS:	**METALS:**	
____ PCM (air)	____ Paint	____ Soil
__X__ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water

MOLD: P&K ___ 100 ___ 101 ___ 102 ___ 105 ___ 117

Other Method:

Project Location: Kent St. Barn

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

Condition: _X_ Good _____ Damaged _____ Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	01A	11011177		11			
2	01B	11011178		12			
3	01C	11011179		13			
4	02A	11011180		14			
5	02B	11011181		15			
6	03A	11011182		16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	Mike B / Mike R	4/26/11	
Relinquished by:	Robin Pennington	4/26/11	16:03
Received by:			
Relinquished by:			
Received for Laboratory by:		4/27/11	14:46
Analyzed by:	MH	5/4/11	
Preliminary Results Reported to P.M. by:	MM	5/4/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: Ashland Housing Project

RGA Batch Number: **11-1198**
RGA Project Number: **RCD27554**
Number of Samples: **5**

Report Key

Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
SWP A 11011554	Window putty	**No Asbestos Detected**		65% Calcite Filler and Binder 30% Resin and Binder 5% Paint
SWP B 11011555	Window putty	**No Asbestos Detected**		65% Calcite Filler and Binder 30% Resin and Binder 5% Paint
SWP C 11011556	Window putty	**No Asbestos Detected**		65% Calcite Filler and Binder 30% Resin and Binder 5% Paint
SEC-A 11011557	Painted concrete	**No Asbestos Detected**		55% Calcite Filler and Binder 30% Sand 10% Mineral Particles 5% Paint
SPT-A 11011558	L-1 9 inch vinyl floor tile	**2% Chrysotile**		73% Calcite Filler and Binder 25% Vinyl Filler and Binder
	L-2 Black mastic	**2% Chrysotile**		90% Asphalt Filler and Binder 8% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Marlin Bryant
Received By: Aruna Turaga 5/2/2011
Reviewed By: Aruna Turaga 5/9/2011

William Russell Browne

Analyzed By: Russell Browne 5/9/2011

11-1198

RGA ENVIRONMENTAL

__PM – S. Steiner steff@rgaenv.com fax: 510.899.7051
__PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
__PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__PM – B. Gils bob@rgaenv.com fax: 510.899.7050
X PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

ASBESTOS BULK
SAMPLE DATA SHEET

* PLM Analysis
___ Stop Analysis at First Positive
___ Analyze All Samples
___ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/Address: Ashland Housing Project

RGA Project #: RCD27554 Sampled By: M. Bryant Sample Date 4/26/11

Sample(s) Sent To: X RGA ___ EMSL ___ Other: _____ TAT: ___ Rush __ 24Hrs X 3-5 Days

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

HM# SWP	Material Description: Window Putty	Quantity: 12 each
Sample ID	Sample Location & Material Location	
SWP A	Unit 2 Shower Bldg Window	
SWP B	3	
SWP C	4	

HM# SEC	Material Description: Painted Concrete	Quantity: ~~one~~ 350
Sample ID	Sample Location & Material Location	one of six
SEC-A	Unit 5 Shower Bldg Exterior	
B		
C		2100 total for 6

HM# SPT	Material Description: 9inch Vinyl Floor tile w/ black mastic	Quantity: 20 sf
Sample ID	Sample Location & Material Location	
SPT A	Floor of Unit 5 Shower Bldg	
B		
C		

HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
A		
B		
C		

HM#	Material Description:	Quantity:
Sample ID	Sample Location & Material Location	
A		
B		
C		
D		
E		
F		
G		

Relinquished By: MBryant Signature: M. Bryant Date/Time: 4/28/11
Received By: _____ Signature: _____ Date/Time: _____
Relinquished By: _____ Signature: _____ Date/Time: _____
Received By: _____ Signature: _____ Date/Time: 5/2/11 13:05

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley / City	CA / State — 94705 / Zip
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1198
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	5

Project Location: Ashland Housing Project

TYPE OF ANALYSIS

ASBESTOS:	METALS:	
___ PCM (air)	___ Paint	___ Soil
_X_ PLM (bulk)	___ Wipe	___ Air
___ Pt. Count (bulk)	___ TCLP	___ Water

MOLD: P&K ___ 100 ___ 101 ___ 102 ___ 105 ___ 117

Other Method:

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

Condition: _X_ Good _____ Damaged _____ Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	SWP A	11011554		11			
2	SWP B	11011555		12			
3	SWP C	11011556		13			
4	SEC-A	11011557		14			
5	SPT-A	11011558		15			
6				16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	Marilyn B	4/26/11	
Relinquished by:			
Received by:			
Relinquished by:			
Received for Laboratory by:		5/2/11	13:05
Analyzed by:	WAR	5/9/11	11:06
Preliminary Results Reported to P.M. by:	WAR	5/9/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/9/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: 16325 Kent St.

RGA Batch Number: **11-1152**
RGA Project Number: **RCD27554**
Number of Samples: **14**

Report Key

Client Sample ID / RGA Lab ID	Layer ID (if applicable) / Layer Description / **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
01A 11011137	Exterior stucco	**No Asbestos Detected**		65% Calcite Filler and Binder 15% Sand 10% Calcite Filler and Binder 10% Mineral Particles
01B 11011138	Exterior stucco	**No Asbestos Detected**		65% Calcite Filler and Binder 15% Sand 10% Paint 10% Mineral Particles
01C 11011139	Exterior stucco	**No Asbestos Detected**		65% Calcite Filler and Binder 15% Sand 10% Paint 10% Mineral Particles
02A 11011140	Black fibrous roof main field w/ black rocks	**No Asbestos Detected**	25% Glass Fiber	55% Asphalt Filler and Binder 15% Rocks 5% Mineral Particles
03A 11011141	Roof penetration mastic	**No Asbestos Detected**	15% Cellulose	75% Asphalt Filler and Binder 10% Mineral Particles
04A 11011142	Texture on drywall w/ beige joint compound	**2% Chrysotile**		75% Calcite Filler and Binder 15% Paint 8% Mineral Particles
04B 11011143	Texture on drywall w/ beige joint compound	**2% Chrysotile**		75% Calcite Filler and Binder 15% Paint 8% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: 16325 Kent St.

RGA Batch Number: **11-1152**
RGA Project Number: **RCD27554**
Number of Samples: **14**

Report Key

Client Sample ID / RGA Lab ID	Layer ID (if applicable) / Layer Description / **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
04C 11011144	Texture on drywall w/ beige joint compound	**2% Chrysotile**		75% Calcite Filler and Binder 15% Paint 8% Mineral Particles
05A 11011145	L-1 White sheet vinyl flooring	**No Asbestos Detected**		75% Vinyl Filler and Binder 15% Calcite Filler and Binder 10% Mineral Particles
	L-2 White fibrous backing	**No Asbestos Detected**	15% Cellulose 15% Glass Fiber	55% Filler and Binder 15% Mineral Particles
	L-3 Gray granular adhesive	**No Asbestos Detected**		65% Resin and Binder 35% Mineral Particles
	L-4 Wood	**No Asbestos Detected**		100% Wood
06A 11011146	L-1 Drywall	**No Asbestos Detected**	15% Cellulose 15% Glass Fiber	55% Gypsum Filler and Binder 10% Calcite Filler and Binder 5% Mineral Particles
	L-2 Joint compound w/ texture	**2% Chrysotile**		75% Calcite Filler and Binder 15% Paint 8% Mineral Particles
	Layer Comments: The wall unit, as a whole, contain <1% Chrysotile asbestos.			

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011
Analyzed By: Minh Huynh 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: 16325 Kent St.

RGA Batch Number: **11-1152**
RGA Project Number: **RCD27554**
Number of Samples: **14**

Report Key

Client Sample ID / RGA Lab ID	Layer ID (if applicable) / Layer Description / **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
06B 11011147	L-1 Drywall	**No Asbestos Detected**	15% Cellulose 15% Glass Fiber	55% Gypsum Filler and Binder 10% Calcite Filler and Binder 5% Mineral Particles
	L-2 Joint compound w/ texture	**2% Chrysotile**		75% Calcite Filler and Binder 15% Paint 8% Mineral Particles
	Layer Comments: The wall unit, as a whole, contain <1% Chrysotile asbestos.			
07A 11011148	L-1 Tan pebble pattern VFT	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Vinyl Filler and Binder 10% Mineral Particles
	L-2 Tan clear adhesive	**No Asbestos Detected**		90% Resin and Binder 10% Mineral Particles
08A 11011149	L-1 White vinyl material	**No Asbestos Detected**		75% Vinyl Filler and Binder 15% Calcite Filler and Binder 10% Mineral Particles
	L-2 Clear adhesive	**No Asbestos Detected**		90% Resin and Binder 10% Mineral Particles
09A 11011150	L-1 White adhesive associated w/ 4" white base cove	**No Asbestos Detected**		90% Resin and Binder 10% Mineral Particles
	L-2 Beige joint compound w/ white paint	**3% Chrysotile**		75% Calcite Filler and Binder 15% Paint 7% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA
ENVIRONMENTAL

__PM – S. Steiner steff@rgaenv.com fax: 510.899.7051
__PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
__PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__PM – B. Gils bob@rgaenv.com fax: 510.899.7050
X PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

11-1152

ACM BULK SAMPLE DATA SHEET

* PLM Analysis
__ Stop Analysis at First Positive
X Analyze All Samples
__ Point Count Analysis (400-point)

Project Name/Address: 16325 KENT ST.

RGA Project: RCD 27554 **Sampled By:** BISHOP / REED **Sample Date** 4-26-11

Sample(s) Sent To: RGA __ EMSL __ Other: TAT: __ Rush __ 24Hrs 3-5 Days

FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM) ***

***ADDITIONAL REPORT RECIPIENT(S): ***

HM# 01	Material Description: EXTERIOR STUCCO	
Sample ID	Sample Location & Material Location	Quantity: 2400 ft²
01A	REAR PATIO - SW CORNER	
01B	DRIVE WAY AREA - SOUTH SIDE	
01C	NE SIDE	
HM# 02	Material Description: ROOF MAIN FIELD (SHINGLE)	
Sample ID	Sample Location & Material Location	Quantity: 1200 ft²
02A	SOUTH SIDE	
HM# 03	Material Description: ROOF PENETRATION MASTIC	
Sample ID	Sample Location & Material Location	Quantity: 6 ft²
03A	SOUTH SIDE	
HM# 04	Material Description: TEXT ON DW	
Sample ID	Sample Location & Material Location	Quantity: 3,000 ft²
04A	LIVING RM - (E) WALL	
04B	KITCHEN - (N) WALL	
04C	2ND FL. BD - CORRIDOR	
HM# 05	Material Description: VINYL SHEET FLOORING	
Sample ID	Sample Location & Material Location	Quantity: 300 ft²
05A	LAUNDRY RM	
HM# 06	Material Description: DW / JC WITH TEXTURE	
Sample ID	Sample Location & Material Location	Quantity: 3,000 ft²
06A	LIVING RM - (E) WALL	
06B	LAUNDRY RM - (N) WALL	

Relinquished By: M. REED **Signature:** M. R **Date/Time:** 4-26-11

Received By: R Palette **Signature:** RP **Date/Time:** 4/26/11 1541

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: W.R.B. **Signature:** W **Date/Time:** 4/27/11 14:30

RGA
ENVIRONMENTAL

__ PM – S. Steiner steff@rgaenv.com fax: 510.899.7051
__PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
__PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__PM – B. Gils bob@rgaenv.com fax: 510.899.7050
X PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

ACM BULK SAMPLE DATA SHEET

* PLM Analysis
___ Stop Analysis at First Positive
X Analyze All Samples
___ Point Count Analysis (400-point)

Project Name/Address: 16325 KENT ST.

RGA Project: RCD 27554 **Sampled By:** BISHOP / REED **Sample Date** 3/-26-11

Sample(s) Sent To: (RGA) ___ EMSL ___ Other:_____ TAT: ___Rush ___24Hrs (3-5 Days)

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

ADDITIONAL REPORT RECIPIENT(S):_____

HM# 07	Material Description: VCT W/ MASTIC	
Sample ID	Sample Location & Material Location	Quantity: 375 ☐
07A	1ST FLOOR DEN UNDER CARPET	

HM# 08	Material Description: LINOLEUM ~~BR~~ WHITE W/ TAN	
Sample ID	Sample Location & Material Location	Quantity: 60 ☐
08A	2ND FL BATH ROOM	

HM# 09	Material Description: 4" WHITE BASE COVE MASTIC	
Sample ID	Sample Location & Material Location	Quantity: 200 LINEAR
09A	KITHCHEN - (N) WALL	

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: M. REED Signature: M. Reed Date/Time: 4-26-11

Received By: R Pallette Signature: RP Date/Time: 4/26/11 1541

Relinquished By: _____ Signature: _____ Date/Time: _____

Received By: W.R.B. Signature: _____ Date/Time: 4/27/11 14:3

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley / City	CA / State — 94705 / Zip
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1152
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	14

TYPE OF ANALYSIS

ASBESTOS:	**METALS:**	
____ PCM (air)	____ Paint	____ Soil
__X__ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water

MOLD: P&K ___ 100 ___ 101 ___ 102 ___ 105 ___ 117

Other Method:

Project Location: 16325 Kent St.

Turn Around Time (other): **5 day**

2 hour / 4 hour	**Same Day**	**One Day**
Two Day	~~3-5 days~~	**10 days**

Price per Sample: $_____

Condition: X Good _____Damaged _____Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	01A	11011137		11	06B	11011147	
2	01B	11011138		12	07A	11011148	
3	01C	11011139		13	08A	11011149	
4	02A	11011140		14	09A	11011150	
5	03A	11011141		15			
6	04A	11011142		16			
7	04B	11011143		17			
8	04C	11011144		18			
9	05A	11011145		19			
10	06A	11011146		20			

	Signature	Date	Time
Sampled by:	Mike B / M. Ker	4/26/11	
Relinquished by:	Robin Prinke	4/26/11	
Received by:			
Relinquished by:			
Received for Laboratory by:	WMB	4/27/11	14:30
Analyzed by:	MH	5/4/11	
Preliminary Results Reported to P.M. by:	MH	5/4/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: 16331 Kent
San Leondro

RGA Batch Number: **11-1154**
RGA Project Number: **RCD27554**
Number of Samples: **8**

Report Key

Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
02A 11011157	Interior plaster	**No Asbestos Detected**		65% Calcite Filler and Binder 15% Sand 15% Paint 5% Mineral Particles
02B 11011158	Interior plaster	**No Asbestos Detected**		65% Calcite Filler and Binder 15% Sand 15% Paint 5% Mineral Particles
02C 11011159	Interior plaster	**No Asbestos Detected**		65% Calcite Filler and Binder 15% Sand 15% Paint 5% Mineral Particles
03A 11011160	L-1 Gray grout associated w/ white CFT	**No Asbestos Detected**		65% Filler and Binder 25% Sand 10% Mineral Particles
	L-2 White grout associated w/ white CFT	**No Asbestos Detected**		65% Filler and Binder 25% Sand 10% Mineral Particles
04A 11011161	Exterior plaster	**No Asbestos Detected**		65% Calcite Filler and Binder 15% Sand 15% Paint 5% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: 16331 Kent
San Leondro

RGA Batch Number: **11-1154**
RGA Project Number: **RCD27554**
Number of Samples: **8**

Report Key

Client Sample ID / RGA Lab ID	Layer ID (if applicable) / Layer Description / **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
04B 11011162	Exterior plaster	**No Asbestos Detected**		65% Calcite Filler and Binder 15% Sand 15% Paint 5% Mineral Particles
04C 11011163	Exterior plaster	**No Asbestos Detected**		65% Calcite Filler and Binder 15% Sand 15% Paint 5% Mineral Particles
05A 11011164	L-1 Shingle roof field w/ red rocks	**No Asbestos Detected**	25% Glass Fiber	55% Asphalt Filler and Binder 15% Rocks 5% Mineral Particles
	L-2 Shingle roof field w/ black rocks	**No Asbestos Detected**	25% Glass Fiber	55% Asphalt Filler and Binder 15% Rocks 5% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA
ENVIRONMENTAL

__ PM – S. Steiner steff@rgaenv.com fax: 510.899.7051	__PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063	__PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070	__PM – B. Gils bob@rgaenv.com fax: 510.899.7050	X PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

11-1154

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

___ Stop Analysis at First Positive

X Analyze All Samples

___ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/Address: 16331 Kent, San Leandro

RGA Project: RCD 27554 **Sampled By:** Mike B/ Mike R **Sample Date** 4/26/11

Sample(s) Sent To: X RGA ___ EMSL ___ Other:_____ TAT: ___Rush ~~X~~ 24Hrs ___3-5 Days

*****FAX OR E-MAIL REPORT TO:** ***SEE ABOVE PROJECT MANAGER (PM)*** ***

*****ADDITIONAL REPORT RECIPIENT(S):**_____ ***

HM# 02	Material Description: Ind. Plstr	
Sample ID	Sample Location & Material Location	Quantity:
02A	Laundry Room	
02B	Bedroom 2	
02C	Closet at Front entry	
HM# 03	Material Description: Mstc & Gyp Assoc w/ Wht CFT	
Sample ID	Sample Location & Material Location	Quantity:
03A	Laundry Room	
HM# 04	Material Description: Ext Stucco	
Sample ID	Sample Location & Material Location	Quantity:
04A	Patio	
04B	At Dining Room	
04C	At Front Entry	
HM# 05	Material Description: Shingle Roof field	
Sample ID	Sample Location & Material Location	Quantity:
05A	Main Roof Field	
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:
HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: Mike B **Signature:** _____ **Date/Time:** 4/26/11

Received By: R Patterson **Signature:** _____ **Date/Time:** 4/26/11 16:00

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: W.R. Brown **Signature:** _____ **Date/Time:** 4/27/11 14:36

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley (City)	CA (State) 94705 (Zip)
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1154
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	8

TYPE OF ANALYSIS

ASBESTOS:	**METALS:**	
____ PCM (air)	____ Paint	____ Soil
_X_ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water

MOLD: P&K __ 100 __ 101 __ 102 __ 105 __ 117

Other Method:

Project Location: 16331 Kent
San Leondro

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

Condition: _____Good _____Damaged _____Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	02A	11011157		11			
2	02B	11011158		12			
3	02C	11011159		13			
4	03A	11011160		14			
5	04A	11011161		15			
6	04B	11011162		16			
7	04C	11011163		17			
8	05A	11011164		18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	M. Ke B / M. Ka R	4/26/11	
Relinquished by:	Robin Pettit	4/26/11	16:06
Received by:			
Relinquished by:			
Received for Laboratory by:	WAB	4/27/11	14:36
Analyzed by:	MH	5/4/11	
Preliminary Results Reported to P.M. by:	MH	5/4/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: 16331A Kent St

RGA Batch Number: **11-1153**
RGA Project Number: **RCD27554**
Number of Samples: **6**

Report Key

Client Sample ID / RGA Lab ID	Layer ID (if applicable) / Layer Description / **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
01A 11011151	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
01B 11011152	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
01C 11011153	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
02A 11011154	L-1 Drywall	**No Asbestos Detected**	15% Cellulose 15% Glass Fiber	55% Gypsum Filler and Binder 10% Calcite Filler and Binder 5% Mineral Particles
	L-2 Joint compound	**No Asbestos Detected**		85% Calcite Filler and Binder 15% Mineral Particles
03A 11011155	L-1 White VFT	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Vinyl Filler and Binder 10% Mineral Particles
	L-2 Clear adhesive	**No Asbestos Detected**		90% Resin and Binder 10% Mineral Particles
04A 11011156	Shingle roof field w/ red and black rock	**No Asbestos Detected**	55% Glass Fiber	20% Asphalt Filler and Binder 15% Rocks 10% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA
ENVIRONMENTAL

__PM – S. Steiner steff@rgaenv.com fax: 510.899.7051	__PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063	__PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070	__PM – B. Gils bob@rgaenv.com fax: 510.899.7050	X PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

11-1153

ACM BULK SAMPLE DATA SHEET

* PLM Analysis

___ Stop Analysis at First Positive

X Analyze All Samples

___ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/Address: 16331A Kent St.

RGA Project: RCD 27554 **Sampled By:** Mike B **Sample Date** 4/26/11

Sample(s) Sent To: X RGA ___ EMSL ___ Other:_____ TAT: ___ Rush ~~X~~ 24Hrs ___ 3-5 Days

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

ADDITIONAL REPORT RECIPIENT(S):_____

HM# 01	Material Description: Text on DW	
Sample ID	Sample Location & Material Location	Quantity:
01A	Front Hallway	
01B	Living Room	
01C	Bed Room 2	
HM# 02	**Material Description: DW & JC**	
Sample ID	Sample Location & Material Location	Quantity:
02A	Front Closet	
HM# 03	**Material Description: Peel & Stick Vinyl Tile, white**	
Sample ID	Sample Location & Material Location	Quantity:
03A	Bathroom	
HM# 04	**Material Description: Shingle Roof Field**	
Sample ID	Sample Location & Material Location	Quantity:
04A	Main Roof Field	
HM#	**Material Description:**	
Sample ID	Sample Location & Material Location	Quantity:
HM#	**Material Description:**	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: Mike B **Signature:** _____ **Date/Time:** 4/26/11

Received By: R Patten **Signature:** RP **Date/Time:** 4/26/11 1600

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: W.R.Brun **Signature:** _____ **Date/Time:** 4/27/11 14:33

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley (City)	CA (State) 94705 (Zip)
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1153
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	6

TYPE OF ANALYSIS

ASBESTOS:	**METALS:**	
____ PCM (air)	____ Paint	____ Soil
_X_ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water

MOLD: P&K ___ 100 ___ 101 ___ 102 ___ 105 ___ 117

Other Method:

Project Location: 16331A Kent St

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

Condition: _X_ Good _____ Damaged _____ Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	01A	11011151		11			
2	01B	11011152		12			
3	01C	11011153		13			
4	02A	11011154		14			
5	03A	11011155		15			
6	04A	11011156		16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	M.K B/M.K R	4/26/11	
Relinquished by:	Robin Pointe	4/26/11	16:00
Received by:			
Relinquished by:			
Received for Laboratory by:	WAB	4/27/11	14:33
Analyzed by:	MH	5/4/11	
Preliminary Results Reported to P.M. by:	MH	5/5/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: 16333 Kent St.

RGA Batch Number: **11-1155**
RGA Project Number: **RCD27554**
Number of Samples: **6**

Report Key

Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
01A 11011165	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
01B 11011166	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
01C 11011167	Texture on drywall	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
02A 11011168	L-1 Drywall	**No Asbestos Detected**	15% Cellulose 15% Glass Fiber	55% Gypsum Filler and Binder 10% Calcite Filler and Binder 5% Mineral Particles
	L-2 Joint compound w/ texture	**No Asbestos Detected**		75% Calcite Filler and Binder 15% Paint 10% Mineral Particles
03A 11011169	Main field roofing	**No Asbestos Detected**	55% Glass Fiber	25% Asphalt Filler and Binder 15% Rocks 5% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA ENVIRONMENTAL
1730 Minor Avenue, Suite 900, Seattle, WA 98101
OFFICE: (206) 281-8858 FAX: (206) 281-8922 email: laboratory@rgaenv.com

Bulk Asbestos Fiber Analysis
(EPA 600/R-93/116)

NVLAP LAB CODE 200613-0

Resources for Community Development
Project Location: 16333 Kent St.

RGA Batch Number: **11-1155**
RGA Project Number: **RCD27554**
Number of Samples: **6**

Report Key				
Client Sample ID RGA Lab ID	Layer ID (if applicable) Layer Description **Layer Comments (if applicable)**	**Asbestos Components**	Non-Asbestos Fibrous Components	Non-Fibrous Components
04A 11011170	L-1 Tan sheet vinyl	**No Asbestos Detected**		75% Vinyl Filler and Binder 15% Calcite Filler and Binder 10% Mineral Particles
	L-2 Tan fibrous backing material	**No Asbestos Detected**	15% Cellulose 15% Glass Fiber	55% Filler and Binder 15% Mineral Particles
	L-3 Tan adhesive	**No Asbestos Detected**		90% Resin and Binder 10% Mineral Particles

This report relates only to the items tested. If samples are not collected by RGA Environmental personnel, accuracy of the results is limited by the methodology and expertise of the sample collector. Analyses are cross-checked with other laboratories for quality assurance purposes. This report shall not be reproduced except in full, without written approval of RGA Environmental. It shall not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Sampled By: Mike Bishop
Received By: Russell Browne 4/27/2011
Reviewed By: Aruna Turaga 5/4/2011

Analyzed By: Minh Huynh 5/4/2011

RGA
ENVIRONMENTAL

__ PM – S. Steiner steff@rgaenv.com fax: 510.899.7051
__ PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
__ PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__ PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__ PM – B. Gils bob@rgaenv.com fax: 510.899.7050
X PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

11-1155

ACM BULK SAMPLE DATA SHEET

* PLM Analysis
___ Stop Analysis at First Positive
✓ Analyze All Samples
___ Point Count Analysis (400-point)

PAGE 1 OF 1

Project Name/Address: 16333 KENT. ST.

RGA Project: RCO 27554 **Sampled By:** BISHOP / REED **Sample Date** 4-26-11

Sample(s) Sent To: X RGA ___ EMSL ___ Other: ___ TAT: ___ Rush ___ 24Hrs ✓ 3-5 Days

***FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)* ***

***ADDITIONAL REPORT RECIPIENT(S): ___ ***

HM# 01	Material Description: TEXTURE ON DW	
Sample ID	Sample Location & Material Location	Quantity: 1
1A	LIVING ROOM – (N) WALL	
1B	" " – (E) WALL	
1C	" " – (S) WALL	

HM# 02	Material Description: DW/JC TEXTURE	
Sample ID	Sample Location & Material Location	Quantity:
2A	LIVING ROOM – NE CORNER	

HM# 03	Material Description: ROOF – MAIN FIELD	
Sample ID	Sample Location & Material Location	Quantity:
3A	EAST SIDE	

HM# 04	Material Description: LINOLEUM	
Sample ID	Sample Location & Material Location	Quantity:
4A	KITCHEN	

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

HM#	Material Description:	
Sample ID	Sample Location & Material Location	Quantity:

Relinquished By: M. REED Signature: M. Reed Date/Time: 4-26-11
Received By: R Palmer Signature: RP Date/Time: 4/26/11 1540
Relinquished By: ___ Signature: ___ Date/Time: ___
Received By: W.R Brown Signature: WRB Date/Time: 4/27/11 14:44

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley (City)	CA (State) 94705 (Zip)
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1155
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	6

Project Location: 16333 Kent St.

Condition: X Good ____ Damaged ____ Severe Damage

TYPE OF ANALYSIS		
ASBESTOS:	**METALS:** ____	
____ PCM (air)	____ Paint	____ Soil
X PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water
MOLD: P&K __ 100 __ 101 __ 102 __ 105 __ 117		
Other Method:		

Turn Around Time (other): 5 day		
2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days
Price per Sample:	$____	

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	01A	11011165		11			
2	01B	11011166		12			
3	01C	11011167		13			
4	02A	11011168		14			
5	03A	11011169		15			
6	04A	11011170		16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	Mike B / Mike R	4/26/11	
Relinquished by:	Robin Painter	4/26/11	1546
Received by:	↓		
Relinquished by:			
Received for Laboratory by:	[signature]	4/27/11	1446
Analyzed by:	MH	5/4/11	
Preliminary Results Reported to P.M. by:	MH	5/4/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/4/2011

RGA ENVIRONMENTAL

Appendix C

Lead in Paint Chip

Laboratory Analytical Reports

And

Chain of Custody Forms

RGA
ENVIRONMENTAL

May 03, 2011

RGA Batch # 11-1200

Client:	Client Contact
Company:	Resources for Community Development 2730 Telegraph Avenue Berkeley, CA, 94705

Project:	Ashland Housing Project	Project #:	RCD27554
Matrix:	Paint Chips - Total Lead	P.O. #:	N/A
Date Sampled:	4/26/2011	Sampled By:	Marlin B
Date Received:	5/2/2011	Method:	EPA SW-846 Method 7420
Date Analyzed:	5/3/2011	Analyst:	***Aruna Turaga***

LEAD SAMPLE RESULTS

RGA Lab ID	Client ID	RL (mg/kg)	Concentration (mg/kg)	Percent %
11011551	BS-1P	48	3,200	0.320
11011552	BS-2P	51	8,500	0.850
11011553	BS-3P	49	17,000	1.700

QA/QC Results		RL - reporting limit
Batch QC MS	105% Recovery	mg - milligrams
Method Blank	<0.5 ug/ml	kg - kilograms
		< - less than

Reviewed by:

Dr.Aruna Turaga, Laboratory Director

11-1200

RGA
ENVIRONMENTAL

__PM – S. Steiner
steff@rgaenv.com
fax: 510.899.7051

__PM – K. Schroeter
karin@rgaenv.com
fax: 510.899.7063

__PM – K. Pilgrim
ken@rgaenv.com
fax: 510.899.7053

__PM – T. Kattchee
tedd@rgaenv.com
fax: 510.899.7070

__PM – B. Gils
bob@rgaenv.com
fax: 510.899.7050

X PM – Marlin Bryant
marlin.bryant@rgaenv.com
fax:510.899.7062

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
__ Flame AA (EPA 7420)
__ TTLC

PAGE 1 OF 1

Project Name/Address: Ashland Housing Project

RGA Project #: RCD 27554 Sampled By: M. Bryant Sampling Date 4/26/11

Sample(s) Sent To: X RGA ____ EMSL ____ Other: ____ TAT: ____ Rush ____ 24Hrs ____ 3-5 Days

FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM) ***

***ADDITIONAL REPORT RECIPIENT(S): ____ ***

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
BS-1P	Paint Color: White/Red Substrate: Concrete Component: Shower Sample Location: Bldg. # BS Unit # 1 Room Shower Bath Structure	F
BS-2P	Paint Color: White Substrate: Concrete Component: Exterior Wall Sample Location: Bldg. # ____ Unit # ____ Room ____	I
BS-3P	Paint Color: White Substrate: Wood Component: Sill Sample Location: Bldg. # BS Unit # 2 Room Exterior	F
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg. # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg. # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg. # ____ Unit # ____ Room ____	
	Paint Color: ____ Substrate: ____ Component: ____ Sample Location: Bldg. # ____ Unit # ____ Room ____	

Relinquished By: M. Bryant Signature: Bryant Date/Time: 4/28/11

Received By: ____ Signature: ____ Date/Time: ____

Relinquished By: ____ Signature: ____ Date/Time: ____

Received By: Anna Signature: ____ Date/Time: 5/2/11 13:00

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact	**RGA Batch #:**	11-1200
Company:	Resources for Community Development	**RGA Project #:**	RCD27554
Client Address:	2730 Telegraph Avenue	**Client Job #:**	
Berkeley (City)	CA (State)	94705 (Zip)	**Number of Samples:** 3

Phone #:

2nd or Cell #:

Fax #:

e-mail Address:

Project Manager: Marlin Bryant

TYPE OF ANALYSIS

ASBESTOS:	METALS: Pb	
____ PCM (air)	__X__ Paint	____ Soil
____ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water
MOLD: P&K __ 100 __ 101 __ 102 __ 105 __ 117		
Other Method:		

Project Location: Ashland Housing Project

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

Condition: _____Good _____Damaged _____Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	BS-1P	11011551		11			
2	BS-2P	11011552		12			
3	BS-3P	11011553		13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	Marlyn B	4/26/11	
Relinquished by:			
Received by:			
Relinquished by:			
Received for Laboratory by:	T. Arnold	5/2/11	13:00
Analyzed by:	T. Arnold	5/3/11	14:00
Preliminary Results Reported to P.M. by:	T. Arnold	5/3/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/9/2011

RGA
ENVIRONMENTAL

April 29, 2011

RGA Batch # 11-1161

Client: Client Contact
Company: Resources for Community Development
2730 Telegraph Avenue
Berkeley, CA, 94705

Project:	Kent St-The Barn	Project #:	RCD27554
Matrix:	Paint Chips - Total Lead	P.O. #:	N/A
Date Sampled:	4/26/2011	Sampled By:	Mike R / Mike B
Date Received:	4/27/2011	Method:	EPA SW-846 Method 7420
Date Analyzed:	4/29/2011	Analyst:	***Aruna Turaga***

LEAD SAMPLE RESULTS

RGA Lab ID	Client ID	RL (mg/kg)		Concentration (mg/kg)		Percent %
11011189	Pb-1	49	<	49	<	0.005

QA/QC Results		
Batch QC MS	103% Recovery	RL - reporting limit
Method Blank	<0.5 ug/ml	mg - milligrams
		kg - kilograms
		< - less than

Reviewed by: T. Aruna

Dr.Aruna Turaga, Laboratory Director

RGA
ENVIRONMENTAL

__ PM – S. Steiner
steff@rgaenv.com
fax: 510.899.7051

__PM – K. Schroeter
karin@rgaenv.com
fax: 510.899.7063

__PM – K. Pilgrim
ken@rgaenv.com
fax: 510.899.7053

__PM – T. Kattchee
tedd@rgaenv.com
fax: 510.899.7070

__PM – B. Gils
bob@rgaenv.com
fax: 510.899.7050

X PM – Marlin Bryant
marlin.bryant@rgaenv.com
fax:510.899.7062

11-1161

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
X Flame AA (EPA 7420)
__ TTLC

PAGE 1 OF 1

Project Name/Address: Kent St, The Barn

RGA Project #: RCD 27554 Sampled By: Mike B Sampling Date 4/26/11

Sample(s) Sent To: X RGA _____ EMSL _____ Other: _____ TAT: _____ Rush ~~X~~ 24Hrs _____ 3-5 Days

FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)**

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb-1	Paint Color: Red Substrate: Wood Component: Ext Wall Sample Location: Bldg. # _____ Unit # _____ Room Back Side Patio	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	

Relinquished By: Mike B **Signature:** _____ **Date/Time:** 4/26/11

Received By: [illegible] **Signature:** [illegible] **Date/Time:** 4/26/11 1610

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: W.R.B. **Signature:** [illegible] **Date/Time:** 4/27/11 14:58

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley (City)	CA (State) 94705 (Zip)
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1161
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	1

TYPE OF ANALYSIS

ASBESTOS:	METALS: Pb	
___ PCM (air)	X Paint	___ Soil
X PLM (bulk)	___ Wipe	___ Air
___ Pt. Count (bulk)	___ TCLP	___ Water

MOLD: P&K ___ 100 ___ 101 ___ 102 ___ 105 ___ 117

Other Method:

Project Location: Kent St.
The Barn

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

Condition: X Good ___ Damaged ___ Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	Pb-1	11011189		11			
2				12			
3				13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	M.L B/M.L R	4/26/11	
Relinquished by:	Robin Pointe	4/26/11	1617
Received by:			
Relinquished by:			
Received for Laboratory by:		4/27/11	14:58
Analyzed by:	T. Duong	4/29/11	13:00
Preliminary Results Reported to P.M. by:			
Final Report to P.M. by:	T. Duong	4/29/11	

Special Instructions:
Due by 5/4/2011

RGA
ENVIRONMENTAL

April 29, 2011

RGA Batch # 11-1158

Client:	Client Contact
Company:	Resources for Community Development 2730 Telegraph Avenue Berkeley, CA, 94705

Project:	16325 Kent St-San Lorenzo	Project #:	RCD27554
Matrix:	Paint Chips - Total Lead	P.O. #:	N/A
Date Sampled:	4/26/2011	Sampled By:	Mike R / Mike B
Date Received:	4/27/2011	Method:	EPA SW-846 Method 7420
Date Analyzed:	4/29/2011	Analyst:	***Aruna Turaga***

LEAD SAMPLE RESULTS

RGA Lab ID	Client ID	RL (mg/kg)	Concentration (mg/kg)	Percent %
11011183	Pb-1	49	2,100	0.210
11011184	Pb-2	48	83	0.008

QA/QC Results		RL - reporting limit
Batch QC MS	103% Recovery	mg - milligrams
Method Blank	<0.5 ug/ml	kg - kilograms
		< - less than

Reviewed by:

Dr.Aruna Turaga, Laboratory Director

11-1158

RGA ENVIRONMENTAL

__ PM – S. Steiner steff@rgaenv.com fax: 510.899.7051
__ PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
__ PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__ PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__ PM – B. Gils bob@rgaenv.com fax: 510.899.7050
X PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
__ Flame AA (EPA 7420)
__ TTLC

PAGE 1 OF 1

Project Name/Address: 16325 KENT ST. SAN LORENZO, CA

RGA Project #: RCD 27554 Sampled By: MikeB/M. REED Sampling Date 4/26/11

Sample(s) Sent To: ___ RGA _____ EMSL _____ Other: _____ TAT: _____ Rush _____ 24Hrs ___ 3-5 Days

FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)**

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb-1	Paint Color: White Substrate: Wood Component: Trim Sample Location: Bldg. # 16325 Unit # _____ Room _____ Ext. at front Porch	
Pb-2	Paint Color: White Substrate: Wood Component: Ext. Wall Sample Location: Bldg. # _____ Unit # _____ Room _____ Bldg 16325 Bkyrd. shed	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	

Relinquished By: M. REED **Signature:** M. R. **Date/Time:** 4-26-11

Received By: R Patton **Signature:** RP **Date/Time:** 4/26/11 1610

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: W.R. Brown **Signature:** _____ **Date/Time:** 4/27/11 14:52

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley / City	CA / State — 94705 / Zip
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1158
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	2

Project Location: 16325 Kent St
San Lorenzo, CA

Condition: _____Good _____Damaged _____Severe Damage

TYPE OF ANALYSIS

ASBESTOS:	METALS: Pb	
____ PCM (air)	__X__ Paint	____ Soil
____ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water

MOLD: P&K __ 100 __ 101 __ 102 __ 105 __ 117

Other Method:

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	Pb-1	11011183		11			
2	Pb-2	11011184		12			
3				13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	M.K. R / M.K. B	4/26/11	
Relinquished by:	ROBIN Painter	4/26/11	16:10
Received by:			
Relinquished by:			
Received for Laboratory by:	[illegible]	4/27/11	14:57
Analyzed by:	T. Anima	4/29/11	13:00
Preliminary Results Reported to P.M. by:	T. Anima	4/29/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/4/2011

RGA
ENVIRONMENTAL

April 29, 2011

RGA Batch # 11-1160

Client:	Client Contact
Company:	Resources for Community Development 2730 Telegraph Avenue Berkeley, CA, 94705

Project:	16331 Kent St-San Lorenzo	Project #:	RCD27554
Matrix:	Paint Chips - Total Lead	P.O. #:	N/A
Date Sampled:	4/26/2011	Sampled By:	Mike R / Mike B
Date Received:	4/27/2011	Method:	EPA SW-846 Method 7420
Date Analyzed:	4/29/2011	Analyst:	***Aruna Turaga***

LEAD SAMPLE RESULTS

RGA Lab ID	Client ID	RL (mg/kg)		Concentration (mg/kg)		Percent %
11011186	Pb-1	49		1,200		0.120
11011187	Pb-2	49	<	49	<	0.005
11011188	Pb-3	47	<	47	<	0.005

QA/QC Results		RL - reporting limit
Batch QC MS	103% Recovery	mg - milligrams
Method Blank	<0.5 ug/ml	kg - kilograms
		< - less than

Reviewed by:

Dr.Aruna Turaga, Laboratory Director

RGA ENVIRONMENTAL

__ PM – S. Steiner steff@rgaenv.com fax: 510.899.7051

__PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063

__PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053

__PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070

__PM – B. Gils bob@rgaenv.com fax: 510.899.7050

X PM – Marlin Bryant marlin.bryant@rgaenv.com fax:510.899.7062

11-1160

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
__ Flame AA (EPA 7420)
__ TTLC

PAGE 1 OF 1

Project Name/Address: 16331 KENT ST. SAN LORENZO,

RGA Project #: RCD-23554 Sampled By: BISHOP / REED Sampling Date 4-26-11

Sample(s) Sent To: (RGA) EMSL Other: TAT: Rush 24Hrs (3-5 Days)

FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM) ***

***ADDITIONAL REPORT RECIPIENT(S): ***

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb-1	Paint Color: WHITE Substrate: WOOD Component: TRIM Sample Location: Bldg. # 16331 Unit # Room HALL	
Pb-2	Paint Color: WHITE Substrate: STUCCO Component: WALL Sample Location: Bldg. # 16331 Unit # Room EXTERIOR - (N) SIDE	
Pb-3	Paint Color: WHITE Substrate: WOOD Component: WINDOW Sample Location: Bldg. # 16331 Unit # Room EXTERIOR - N - SIDE	
	Paint Color: Substrate: Component: Sample Location: Bldg. # Unit # Room	
	Paint Color: Substrate: Component: Sample Location: Bldg. # Unit # Room	
	Paint Color: Substrate: Component: Sample Location: Bldg. # Unit # Room	
	Paint Color: Substrate: Component: Sample Location: Bldg. # Unit # Room	

Relinquished By: M. REED **Signature:** M. Reed **Date/Time:** 4-26-11

Received By: R Painter **Signature:** RP **Date/Time:** 4/26/11 1610

Relinquished By: **Signature:** **Date/Time:**

Received By: W.R.B. **Signature:** WBrue **Date/Time:** 4/27/11 14:56

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley / City	CA / State — 94705 / Zip
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1160
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	3

TYPE OF ANALYSIS

ASBESTOS:	METALS: Pb	
____ PCM (air)	X Paint	____ Soil
____ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water

MOLD: P&K ___100 ___101 ___102 ___105 ___117

Other Method:

Project Location: 16331 Kent St
San Lorenzo, CA

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

Condition: ✓ Good _____Damaged _____Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	Pb-1	11011186		11			
2	Pb-2	11011187		12			
3	Pb-3	11011188		13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	M.heB / M.keR	4/26/11	
Relinquished by:	Robin Pearson	4/26/11	16:10
Received by:			
Relinquished by:			
Received for Laboratory by:	[signature]	4/27/11	14:56
Analyzed by:	[signature]	4/29/11	13:00
Preliminary Results Reported to P.M. by:	[signature]	4/29/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/4/2011

RGA
ENVIRONMENTAL

April 29, 2011

RGA Batch # 11-1159

Client: Client Contact
Company: Resources for Community Development
2730 Telegraph Avenue
Berkeley, CA, 94705

Project:	16331A Kent St	Project #:	RCD27554
Matrix:	Paint Chips - Total Lead	P.O. #:	N/A
Date Sampled:	4/26/2011	Sampled By:	Mike R / Mike B
Date Received:	4/27/2011	Method:	EPA SW-846 Method 7420
Date Analyzed:	4/29/2011	Analyst:	***Aruna Turaga***

LEAD SAMPLE RESULTS

RGA Lab ID	Client ID	RL (mg/kg)		Concentration (mg/kg)		Percent %
11011185	Pb-1	48	<	48	<	0.005

QA/QC Results
Batch QC MS 103% Recovery
Method Blank <0.5 ug/ml

RL - reporting limit
mg - milligrams
kg - kilograms
< - less than

Reviewed by: T. Aruna

Dr.Aruna Turaga, Laboratory Director

RGA ENVIRONMENTAL

__ PM – S. Steiner
steff@rgaenv.com
fax: 510.899.7051

__PM – K. Schroeter
karin@rgaenv.com
fax: 510.899.7063

__PM – K. Pilgrim
ken@rgaenv.com
fax: 510.899.7053

__PM – T. Kattchee
tedd@rgaenv.com
fax: 510.899.7070

__PM – B. Gils
bob@rgaenv.com
fax: 510.899.7050

X PM – Marlin Bryant
marlin.bryant@rgaenv.com
fax:510.899.7062

11-1159

LEAD PAINT
SAMPLE DATA SHEET

* Lead Analysis
X Flame AA (EPA 7420)
__ TTLC

PAGE 1 OF 1

Project Name/Address: 16331 A Kent St.

RGA Project #: RCD 27554 Sampled By: Mike B/Mike R Sampling Date 4/26/11

Sample(s) Sent To: X RGA _____ EMSL _____ Other: _____ TAT: ____ Rush ~~X~~ 24Hrs ____ 3-5 Days

FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)**

***ADDITIONAL REPORT RECIPIENT(S): _____ ***

Sample ID	Paint Description and Sample Location	Condition (I/F/P)
Pb-1	Paint Color: White Substrate: Wood Component: Ext Wall Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	
	Paint Color: _____ Substrate: _____ Component: _____ Sample Location: Bldg. # _____ Unit # _____ Room _____	

Relinquished By: Mike B **Signature:** _____ **Date/Time:** 4/26/11

Received By: R Painter **Signature:** RP **Date/Time:** 4/26/11 1610

Relinquished By: _____ **Signature:** _____ **Date/Time:** _____

Received By: W.R. Brown **Signature:** _____ **Date/Time:** 4/27/11

Sample Log
Chain of Custody

RGA Laboratory Services
INTERNAL

Client:	Client Contact
Company:	Resources for Community Development
Client Address:	2730 Telegraph Avenue
Berkeley (City)	CA (State) 94705 (Zip)
Phone #:	
2nd or Cell #:	
Fax #:	
e-mail Address:	
Project Manager:	Marlin Bryant

RGA Batch #:	11-1159
RGA Project #:	RCD27554
Client Job #:	
Number of Samples:	1

TYPE OF ANALYSIS		
ASBESTOS:	**METALS:** Pb	
____ PCM (air)	__X__ Paint	____ Soil
____ PLM (bulk)	____ Wipe	____ Air
____ Pt. Count (bulk)	____ TCLP	____ Water
MOLD: P&K __ 100 __ 101 __ 102 __ 105 __ 117		
Other Method:		

Project Location: 16331A Kent St.

Turn Around Time (other): 5 day

2 hour / 4 hour	Same Day	One Day
Two Day	~~3-5 days~~	10 days

Price per Sample: $_____

Condition: _____Good _____Damaged _____Severe Damage

#	Client Sample ID	RGA Laboratory ID	Comments	#	Client Sample ID	RGA Laboratory ID	Comments
1	Pb-1	11011185		11			
2				12			
3				13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

	Signature	Date	Time
Sampled by:	M.K.B / M.K.R	4/26/11	
Relinquished by:	Robin Payne	4/26/11	16:10
Received by:			
Relinquished by:			
Received for Laboratory by:	WRK	4/27/11	14:50
Analyzed by:	T. Anna	4/29/11	13:00
Preliminary Results Reported to P.M. by:	T. Anna	4/29/11	
Final Report to P.M. by:			

Special Instructions:
Due by 5/4/2011

RGA ENVIRONMENTAL

Appendix D

Lead in Soil

Laboratory Analytical Report

And

Chain of Custody Form

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

RGA Environmental	Client Project ID: #RCD 27554; Ashland Housing Pjt. 14th St/Kent Ave	Date Sampled: 04/26/11
		Date Received: 04/27/11
1466 66th Street	Client Contact: Marlin Bryant	Date Reported: 05/02/11
Emeryville, CA 94608	Client P.O.:	Date Completed: 04/29/11

WorkOrder: 1104752

May 02, 2011

Dear Marlin:

Enclosed within are:

1) The results of the **10** analyzed samples from your project: **#RCD 27554; Ashland Housing Pjt. 14th St/Kent Ave**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

1104752

RGA ENVIRONMENTAL

__PM – S. Steiner steff@rgaenv.com fax: 510.899.7051
__PM – K. Schroeter karin@rgaenv.com fax: 510.899.7063
__PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
__PM – T. Kattchee tedd@rgaenv.com fax: 510.899.7070
__PM – B. Gils bob@rgaenv.com fax: 510.899.7050
X PM – M. Bryant marlin.bryant@rgaenv.com fax: 510.899.7062

LEAD ~~WIPE~~ in Soil
SAMPLE DATA SHEET

* Lead Analysis
- Flame AA (EPA 7420)
PAGE ___ OF ___

Project Name/Address: Ashland Housing Pjt 14th st / Kent Ave PO #: ____
RGA Project #: RCD 27554 Sampled By: MBryant Sampling Date: 4/26/11
Sample(s) Sent To: ___ EMSL ___ Other: ____ Turnaround: ___ Rush ___ 24Hrs X 3-5 Days

FAX OR E-MAIL REPORT TO: *SEE ABOVE PROJECT MANAGER (PM)**

***ADDITIONAL REPORT RECIPIENT(S): ____ ***

Sample ID	Sample Location		Wiped Area
LS-1	16325 Kent Ave	SE, E, NE	X
LS-2	Barn Apt	SW, W, NW	
LS-3	16333	NW, N, NE	
LS-4	16331	NW, N, NE, E	
LS-5	16309 Playhouse	East	
LS-6	16331A	NE, N, NW	
LS-7	16309 Unit 6	SW, S, SE	
LS-8	Trailer NE 16305	E, S, W	
LS-9	Trailer East Entry	N, S, E, W	
LS-10	14-car Shed	SW, S, SE	

Relinquished By: Marlin Bryant Signature: MBryant Date/Time: 4/26/11
Received By: Maria Venegas Signature: Maria Date/Time: 4/27/11 0900
Relinquished By: N/A Signature: ____ Date/Time: ____
Received By: ____ Signature: ____ Date/Time: ____

ICE/T: ___ GOOD CONDITION ___ HEAD SPACE ABSENT ___ DECHLORINATED IN LAB ___ APPROPRIATE CONTAINERS ___ PRESERVED IN LAB ___

PRESERVATION	VOAS	O&G	METALS	OTHER

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1104752 **ClientCode: RGAE**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Marlin Bryant
RGA Environmental
1466 66th Street
Emeryville, CA 94608
(510) 658-6916 FAX (510) 834-0152

Email: marlin.bryant@rgaenv.com
cc:
PO:
ProjectNo: #RCD 27554; Ashland Housing Pjt. 14th St/Kent Ave

Bill to:
Nick Hecht
RGA Environmental
1466 66th Street
Emeryville, CA 94608
nick.hecht@rgaenv.com

Requested TAT: 5 days

Date Received: **04/27/2011**
Date Printed: **04/27/2011**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1104752-001	LS-1	Soil	4/26/2011	☐	A											
1104752-002	LS-2	Soil	4/26/2011	☐	A											
1104752-003	LS-3	Soil	4/26/2011	☐	A											
1104752-004	LS-4	Soil	4/26/2011	☐	A											
1104752-005	LS-5	Soil	4/26/2011	☐	A											
1104752-006	LS-6	Soil	4/26/2011	☐	A											
1104752-007	LS-7	Soil	4/26/2011	☐	A											
1104752-008	LS-8	Soil	4/26/2011	☐	A											
1104752-009	LS-9	Soil	4/26/2011	☐	A											
1104752-010	LS-10	Soil	4/26/2011	☐	A											

Test Legend:

1	PB_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **RGA Environmental** Date and Time Received: **4/27/2011 10:16:07 AM**

Project Name: **#RCD 27554; Ashland Housing Pjt. 14th St/Kent Av** Checklist completed and reviewed by: Maria Venegas

WorkOrder N°: **1104752** Matrix Soil Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☐	No ☑	

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

RGA Environmental	Client Project ID: #RCD 27554; Ashland Housing Pjt. 14th St/Kent Ave	Date Sampled: 04/26/11
		Date Received: 04/27/11
1466 66th Street	Client Contact: Marlin Bryant	Date Extracted: 04/27/11
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 04/28/11-04/29/11

Lead by ICP*

Extraction method: SW3050B Analytical methods: SW6010B Work Order: 1104752

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1104752-001A	LS-1	S	TOTAL	49	1	107	
1104752-002A	LS-2	S	TOTAL	400	1	103	
1104752-003A	LS-3	S	TOTAL	1300	1	106	
1104752-004A	LS-4	S	TOTAL	120	1	112	
1104752-005A	LS-5	S	TOTAL	73	1	81	
1104752-006A	LS-6	S	TOTAL	70	1	107	
1104752-007A	LS-7	S	TOTAL	37	1	122	
1104752-008A	LS-8	S	TOTAL	91	1	110	
1104752-009A	LS-9	S	TOTAL	96	1	109	
1104752-010A	LS-10	S	TOTAL	82	1	105	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TOTAL	5.0	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1104752

EPA Method SW6010B	Extraction SW3050B	BatchID: 57910	Spiked Sample ID: 1104713-016A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	ND	50	111	111	0	10	105	93.9	10.9	75 - 125	25	75 - 125	25
%SS:	103	500	104	105	1.05	500	105	109	3.64	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 57910 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1104752-001A	04/26/11	04/27/11	04/28/11 11:37 PM	1104752-002A	04/26/11	04/27/11	04/28/11 11:40 PM
1104752-003A	04/26/11	04/27/11	04/28/11 11:44 PM	1104752-004A	04/26/11	04/27/11	04/28/11 11:47 PM
1104752-005A	04/26/11	04/27/11	04/28/11 11:57 PM	1104752-006A	04/26/11	04/27/11	04/29/11

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR 6010B

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1104752

EPA Method SW6010B	Extraction SW3050B	BatchID: 57914	Spiked Sample ID: 1104705-052A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	5.7	50	100	104	3.52	10	106	92.9	13.5	75 - 125	25	75 - 125	25
%SS:	97	500	100	101	0.0995	500	109	107	1.67	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 57914 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1104752-007A	04/26/11	04/27/11	04/29/11 12:04 AM	1104752-008A	04/26/11	04/27/11	04/29/11 12:07 AM
1104752-009A	04/26/11	04/27/11	04/29/11 12:10 AM	1104752-010A	04/26/11	04/27/11	04/29/11 12:14 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

RGA ENVIRONMENTAL

Appendix E

Inspector Credentials

State of California
Division of Occupational Safety and Health

Certified Asbestos Consultant

Michael R Bishop
Name

Certification No. 07-4275

Expires on 10/18/11

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician

Michael H Reed
Name

Certification No. 08-4464

Expires on 12/18/11

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

STATE OF CALIFORNIA — Arnold Schwarzenegger, *Governor*

DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
ASBESTOS CONSULTANT and TRAINER APPROVAL UNIT
2211 Park Towne Circle, Suite 1
Sacramento, CA 95825
Tel: (916) 574-2993 Fax: (916) 483-0572

208100596C 2

June 25, 2010

Marlin Virgil Bryant
1530 Mellissa Circle
Antioch CA 94509

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, please abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification. Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as a CAC or CSST.

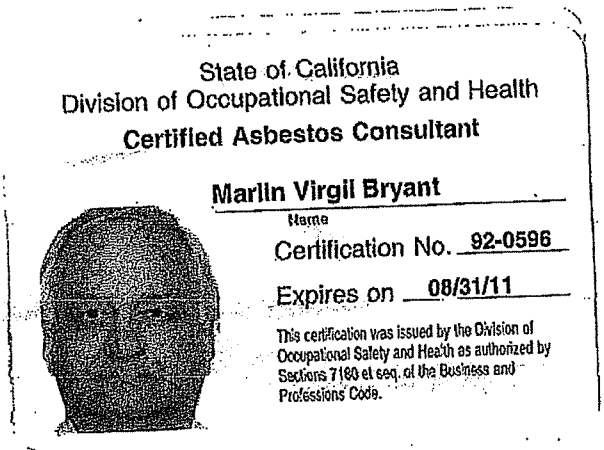
Please inform our office at the above address, fax number or actu@dir.ca.gov of any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Industrial Hygienist

JF/ms

Attachment: Certification Card
cc: File



(Renewal – Card Attached Revised 8/29/06)

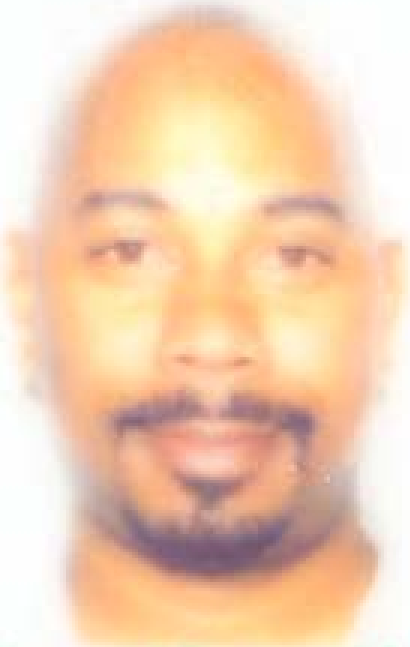
State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type

Expiration Date

Sampling Technician **05/21/2011**



19564

Michael H. Reed

ID #: **20534**

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type

Sampling Technician

Expiration Date

09/28/2011

19539

Michael Bishop

ID #: 20519

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type	Expiration Date
Inspector/Assessor	01/08/2012
Project Designer	01/08/2012
Project Monitor	01/08/2012

21170

Marlin V. Bryant

ID #: **41**

RGA ENVIRONMENTAL

Appendix F

Site Photos

PHOTO 1. 16325 Kent Avenue - Single Family Residence plus one-car garage

PHOTO 2. 16325 Kent Avenue Single Family Residence plus garage

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **1**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 2. Barn - Single Family Residence with One-car Garage plus Community Laundry

PHOTO 3. Barn - Single Family Residence With One-car Garage Plus Community Laundry

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **2**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 5. 16333 Kent Avenue Single Family Residence (modular building)

PHOTO 6. 16331A Kent Avenue Single Family Residence With No Garage

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **3**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

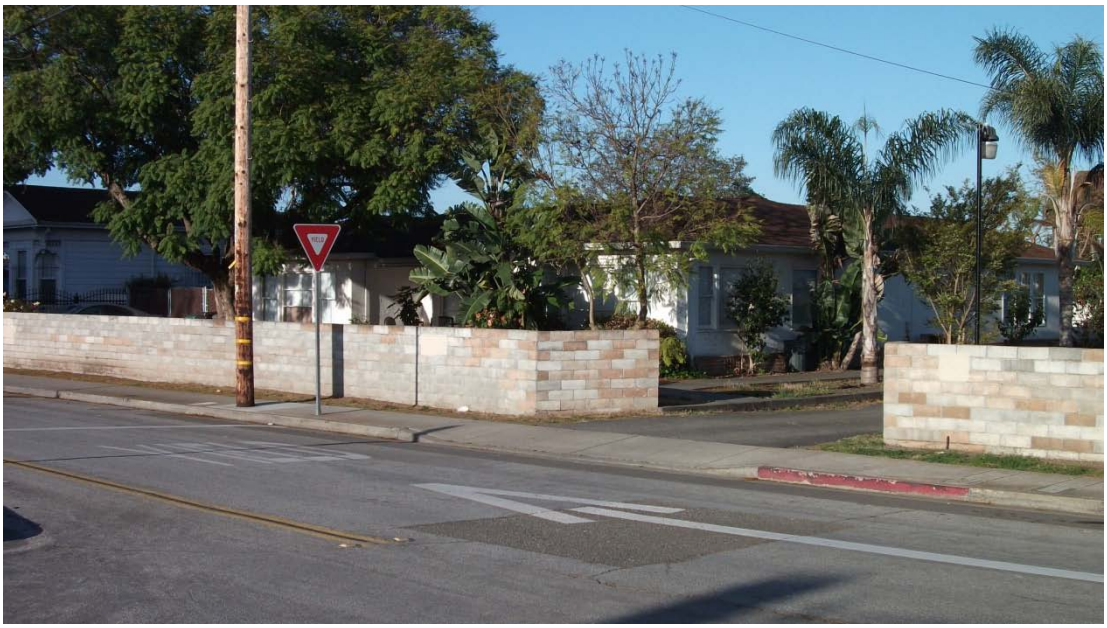


PHOTO 7. 16331 Kent Avenue - Single Family Residence with No Garage

PHOTO 8. 16331 Kent Avenue - Single Family Residence with No Garage

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **4**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 9. 16309 Kent Avenue – East Entrance to Mobile Home Park From Kent Avenue

PHOTO 10. 16309 Kent Avenue – Mobile Home Park (South Side)

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **5**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 11. 16309 Kent Avenue – Unit 1

PHOTO 12. 16309 Kent Avenue – Mobile Home Park Mailboxes (17 Total)

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **6**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 13. 16309 Kent Avenue – Unit 2 Next to Bath Structure at Right

PHOTO 14. 16309 Kent Avenue – Unit 3

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **7**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 15. 16309 Kent Avenue – Unit 4 Next to Bath Structure at Right

PHOTO 16. 16309 Kent Avenue – Unit 5

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **8**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 17. 16309 Kent Avenue – Unit 6 Next to Enclosed Bath Structure at Right

PHOTO 18. 16309 Kent Avenue – Unit 7

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **9**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 19. 16309 Kent Avenue – Unit 8 Next to Garage Structure (at left)

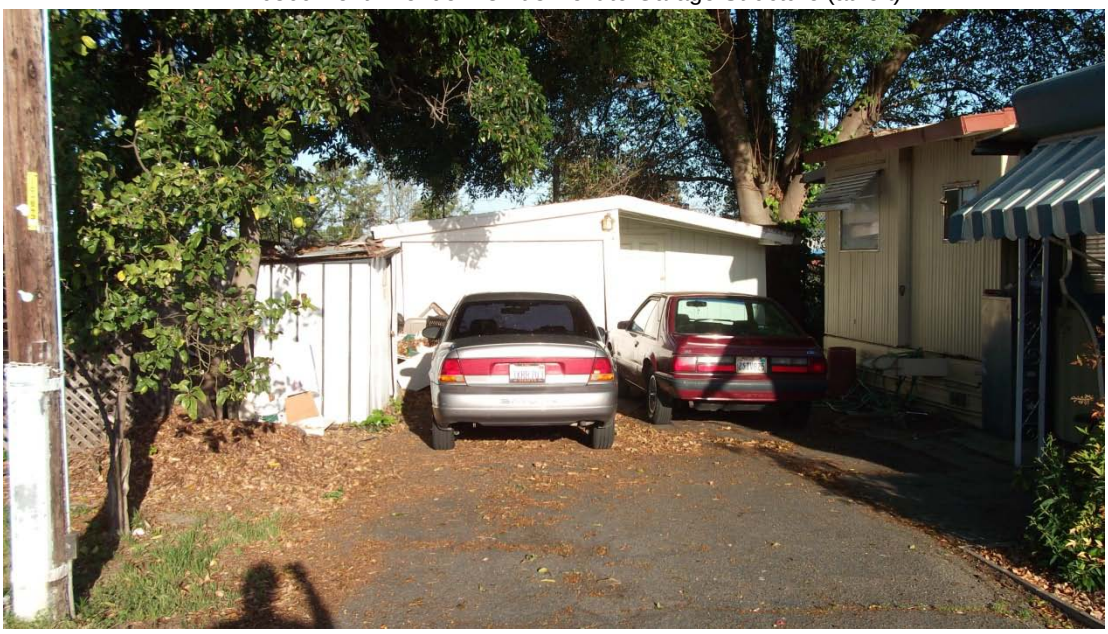


PHOTO 20. 16309 Kent Avenue – Unit 9 Garage Structure with Shed (not accessible)

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **10**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 21. 16309 Kent Avenue – Unit 16

PHOTO 22. 16309 Kent Avenue – Unit 16

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **11**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 23. 16309 Kent Avenue – Unit 15

PHOTO 24. 16309 Kent Avenue – Unit 15

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **12**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 25. 16309 Kent Avenue – Unit 14 (Vacant)

PHOTO 26. 16309 Kent Avenue – Unit 13 with Bath Structure

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **13**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 27. 16309 Kent Avenue – Unit 12 (Vacant Slab)

PHOTO 28. 16309 Kent Avenue – Unit 11 (unoccupied) adjacent to Bath Structure

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **14**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 29. 16309 Kent Avenue – Unit 10

PHOTO 30. 16309 Kent Avenue – Unit 9 with Enclosed Bath Structure

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **15**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 31. 16309 Kent Avenue – 14-Car Parking Shed

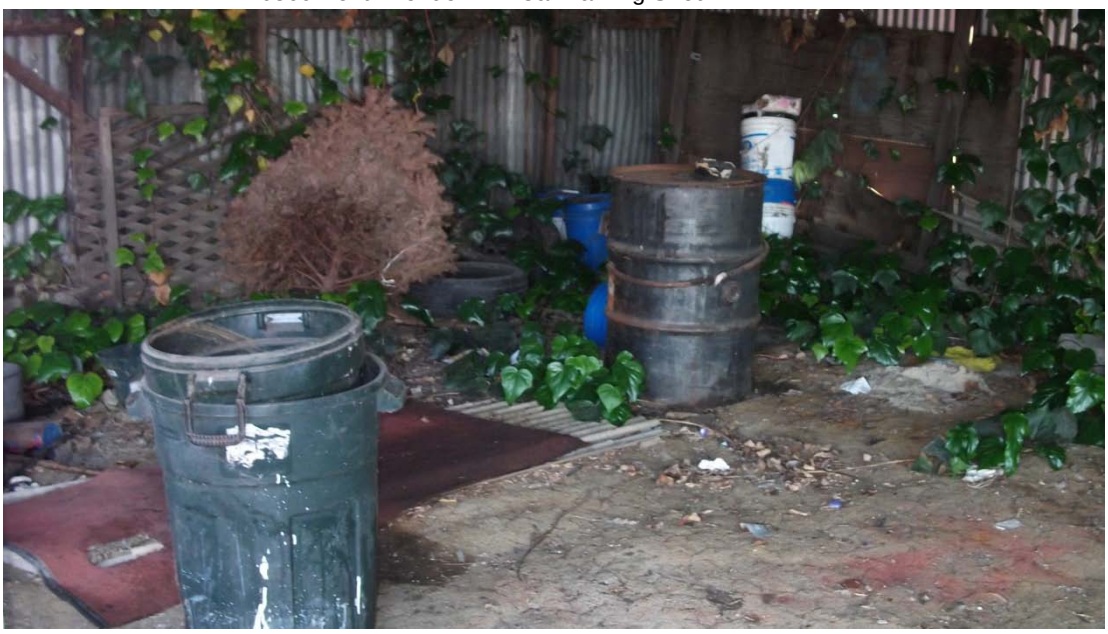


PHOTO 32. 16309 Kent Avenue – 14-car Parking Shed with Discarded Oil Drums

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **16**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 33. 16309 Kent Avenue – Unit 17 at East Entrance

PHOTO 34. 16309 Kent Avenue – Damaged Wooden Cover of Water Cistern (sand filled) Located in Parking Area West of Unit 17

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **17**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 34. 16305 Kent Avenue – Single Family Residence with Fenced in Trailer

PHOTO 36. 16309 Kent Avenue – Main East Entrance

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **18**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

PHOTO 37 Subject Site

File: Photo Page.doc

RGA ENVIRONMENTAL				**SITE RECONNAISSANCE PHOTOGRAPHS: April 18, 2011** Resources for Community Development Ashland Housing Project San Lorenzo, California	PLATE **19**
DRAFTED BY:	M. Bryant	DATE:	05/02/11		
CHECKED BY:	M. Chin	DATE:	05/02/11	PROJECT NO.: RCD27554	

RGA ENVIRONMENTAL

Appendix G

California Department of Public Health

Lead Hazard Evaluation Reports

State of California—Health and Human Services Agency | California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation April 26, 2011

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
16305 Kent Avenue	San Lorenzo	Alameda	94580

Construction date (year) of structure	Type of structure		Children living in structure?
Pre-1978	☐ Multi-unit building	☐ School or daycare	☑ Yes ☑ No
	☑ Single family dwelling	☐ Other Airport	☐ Don't Know

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Thomas Eplin	510-278-4433

Address [number, street, apartment (if applicable)]	City	State	Zip Code
16338 East 14th Street	San Leandro	CA	94578

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☑ No lead-based paint detected ☐ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☑ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Marlin V. Bryant	925-381-2505

Address [number, street, apartment (if applicable)]	City	State	Zip Code
1530 Mellissa Circle	Antioch	CA	94509

CDPH certification number	Signature	Date
I-41	Marlin V. Bryant	5-17-11

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

NA Mike Reed CDPH Lead Sampling Tech # 20534

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

State of California—Health and Human Services Agency | California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation April 26, 2011

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
16309 Kent Avenue	San Lorenzo	Alameda	94580

Construction date (year) of structure	Type of structure	Children living in structure?
pre 1960	☐ Multi-unit building ☐ School or daycare ☐ Single family dwelling ☑ Other ~~Duplex~~ Bath Structures + Shed & Barn	☐ Yes ☑ No

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Thomas M. Eplin	510-278-4433

Address [number, street, apartment (if applicable)]	City	State	Zip Code
16338 East 14th Street	San Leandro	CA	94578

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☐ No lead-based paint detected ☑ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☐ No lead hazards detected ☐ Lead-contaminated dust found ☑ Lead-contaminated soil found NEAR BARN ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Marlin V. Bryant	925-381-2505

Address [number, street, apartment (if applicable)]	City	State	Zip Code
1530 Mellissa Circle	Antioch	CA	94509

CDPH certification number	Signature	Date
I-41	MBryant	5-17-11

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Michael Bishop (Sampling Tech # 20519) and Michael Reed (ST # 20534)

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

State of California—Health and Human Services Agency | California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation April 26, 2011

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
16325 Kent Avenue	San Lorenzo	Alameda	94580

Construction date (year) of structure	Type of structure		Children living in structure?	
Pre-1978	☐ Multi-unit building	☐ School or daycare	☐ Yes	☑ No
	☑ Single family dwelling	☐ Other Airport	☐ Don't Know	

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Thomas Eplin	510-278-4433

Address [number, street, apartment (if applicable)]	City	State	Zip Code
16338 East 14th Street	San Leandro	CA	94578

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☑ No lead-based paint detected ☐ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☑ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Marlin V. Bryant	925-381-2505

Address [number, street, apartment (if applicable)]	City	State	Zip Code
1530 Mellissa Circle	Antioch	CA	94509

CDPH certification number	Signature	Date
I-41	Marlin V. Bryant	5-17-11

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

NA Mike Reed CDPH Lead Sampling Tech # 20534

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

State of California—Health and Human Services Agency | California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation April 26, 2011

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
16331 Kent Avenue	San Lorenzo	Alameda	94580

Construction date (year) of structure	Type of structure		Children living in structure?	
Pre-1970	☐ Multi-unit building	☐ School or daycare	☐ Yes	● No
	☑ Single family dwelling	☐ Other	☑ Don't Know	

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Thomas Eplin	510-278-4433

Address [number, street, apartment (if applicable)]	City	State	Zip Code
16338 East 14th Street	San Leandro	CA	94578

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☑ No lead-based paint detected ☐ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☑ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Marlin V. Bryant	925-381-2505

Address [number, street, apartment (if applicable)]	City	State	Zip Code
1530 Mellissa Circle	Antioch	CA	94509

CDPH certification number	Signature	Date
I-41	Marlin V. Bryant	5-17-11

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

NA Mike Reed CDPH Lead Sampling Tech # 20534

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

State of California—Health and Human Services Agency | California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation April 26, 2011

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
16331A Kent Avenue	San Lorenzo	Alameda	94580

Construction date (year) of structure	Type of structure		Children living in structure?	
1990	☐ Multi-unit building	☐ School or daycare	☐ Yes	☐ No
	☑ Single family dwelling	☐ Other	☑ Don't Know	

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Thomas Eplin	510-278-4433

Address [number, street, apartment (if applicable)]	City	State	Zip Code
16338 East 14th Street	San Leandro	CA	94578

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☑ No lead-based paint detected ☐ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☑ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Marlin V. Bryant	925-381-2505

Address [number, street, apartment (if applicable)]	City	State	Zip Code
1530 Mellissa Circle	Antioch	CA	94509

CDPH certification number	Signature	Date
I-41	Marlin V. Bryant	5-17-11

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

NA Mike Reed CDPH Lead Sampling Tech # 20534

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

State of California—Health and Human Services Agency | California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation April 26, 2011

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
16333 Kent Avenue	San Lorenzo	Alameda	94580

Construction date (year) of structure	Type of structure		Children living in structure?	
Pre-1978	☐ Multi-unit building	☐ School or daycare	☐ Yes	☐ No
	☑ Single family dwelling	☐ Other	☑ Don't Know	

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Thomas Eplin	510-278-4433

Address [number, street, apartment (if applicable)]	City	State	Zip Code
16338 East 14th Street	San Leandro	CA	94578

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☑ No lead-based paint detected ☐ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☐ No lead hazards detected ☐ Lead-contaminated dust found ☑ Lead-contaminated soil found Flower Bed ☐ Other _____

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Marlin V. Bryant	925-381-2505

Address [number, street, apartment (if applicable)]	City	State	Zip Code
1530 Mellissa Circle	Antioch	CA	94509

CDPH certification number	Signature	Date
I-41	Marlin V. Bryant	5-17-11

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

NA Mike Reed CDPH Lead Sampling Tech # 20534

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

Joe Parcel
San Lorenzo, California

Prepared for:

Ashland Family Housing
Berkeley, California

Prepared by:

Belinda P. Blackie, P.E., R.E.A.
San Jose, California

May 8, 2012

BELINDA P. BLACKIE, P.E., R.E.A.
1355 POE LANE
SAN JOSE, CA 95130
PHONE/FAX: (408) 260-8627

EXECUTIVE SUMMARY

Ashland Family Housing retained Belinda P. Blackie, P.E., R.E.A. to perform a Phase I environmental site assessment (ESA) of the Joe Parcel, located 16327 Kent Avenue in San Lorenzo, California (site). The approximately 0.11-acre site is located east of the San Francisco Bay in Alameda County.

The purpose of this assessment was to identify recognized environmental conditions (RECs) associated with the site, as defined by ASTM E 1527-05, Standard Practice for Environmental Site Assessments and 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries; Final Rule. The following executive summary is an overview of the findings of the ESA only, and does not include all pertinent details of the assessment.

A small structure was present on the subject property by the late-1930s. The site currently is developed with a single-family residence and detached garage, constructed in 1949 and 1951. A small storage shed also is present. The property, unoccupied, is owned by May L. Joe, who has owned the property since at least 2002.

Significant quantities of hazardous materials or evidence of hazardous materials spills or releases were not observed at the site. Evidence of significant historic storage and/or use of hazardous materials at the site was not found.

This ESA has revealed evidence of the following potential REC in connection with this site: the potential presence of residual metals and/or pesticides present in soil around the locations of historic and current structures. In addition, although not considered RECs, other sub-grade structures may be present from previous site development and asbestos-containing building materials and lead-based paint also may be present.

ASSESSMENT FINDINGS MATRIX

Site Name: Joe Parcel
Site Address: 16327 Kent Avenue, San Lorenzo, Alameda County, CA
Site APN(s): 080C-0479-021
Site Development Type: Residential
Date of Current Construction: 1949

Issue	Located?	Text Page	Comments
Hazardous Materials and/or Hazardous Wastes	No		
55-Gallon Drums	No		
Aboveground Storage Tanks	No		
Underground Storage Tanks	No		
Monitoring Wells	No		
Visual Evidence of Hazardous Materials Release	No		
Transformers	No		
Impact to On-Site Soil and/or Ground Water	Potential	12	Presence of historic structures and older current structures may have resulted in residual metals and/or pesticides present in soil around the perimeter of the structures, attributable to application of pesticides and flaking of lead-based paint
Off-Site Contamination of Potential Concern to Site	No		
Soil Vapor Intrusion Concerns	No		
Potential for Elevated Radon	No		
Potential for Lead-Based Paint	Yes	13	Based on date of building construction
Potential for Asbestos-Containing Materials	Yes	13	Based on date of building construction
Undocumented Fill	No		
Historic or Current Use of Site for:			
Dry Cleaner	No		
Gas Station	No		
Industrial/Manufacturing	No		
Auto Maintenance/Repair	No		
Landfill/Dump	No		
Agricultural Use	No		
Additional Concerns	Potential	13	Heating oil UST, wells, pipelines, septic tanks, fill materials, buried debris, building materials and impacted soil also may be present from historic site development

TABLE OF CONTENTS

PAGE

1.0 INTRODUCTION 1

1.1 PURPOSE 1

1.2 SCOPE OF SERVICES 1

1.3 LIMITATIONS AND EXCEPTIONS 1

1.4 USER RELIANCE 2

2.0 SITE DESCRIPTION 2

2.1 SITE LOCATION AND GENERAL CHARACTERISTICS 2

2.2 GEOLOGIC SETTING AND HYDROGEOLOGY 2

2.3 CURRENT USES OF THE SITE 3

2.4 CURRENT USES OF THE ADJOINING PROPERTIES 4

3.0 USER-PROVIDED INFORMATION 4

3.1 SPECIFIC KNOWLEDGE REGARDING SITE 5

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS 5

3.3 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES 5

3.4 LAND TITLE AND RELATED RECORDS 5

4.0 CURRENT OWNER-PROVIDED INFORMATION 5

5.0 PAST SITE OWNER/OCCUPANT-PROVIDED INFORMATION 9

6.0 RECORDS REVIEW 6

6.1 REGULATORY DATABASE REPORT REVIEW 6

6.1.1 SITE FACILITY RECORDS 6

6.1.2 VICINITY FACILITY RECORDS 6

6.2 SOIL VAPOR INTRUSION EVALUATION 7

6.3 LOCAL PUBLICLY-AVAILABLE RECORD REVIEW 7

6.4 ENVIRONMENTAL DEED RESTRICTION SEARCH 8

6.5 BAAQMD RECORD REVIEW 8

6.6 POTABLE WATER SOURCE AND METHOD OF SEWAGE DISPOSAL 8
6.7 STATE AND FEDERAL RADON TESTING DATA 8
6.8 FEDERAL, STATE AND PUBLIC WELL DATA 9
6.9 WETLANDS 9

7.0 HISTORICAL REVIEW 9
7.1 MAPS AND AERIAL PHOTOGRAPHS 9
7.2 CITY DIRECTORIES 11
7.3 BUILDING DEPARTMENT RECORDS 11

8.0 SUMMARY OF SIGNIFICANT FINDINGS 11
8.1 SITE USE 11
8.1.1 CURRENT 11
8.1.2 HISTORIC 11
8.2 HAZARDOUS MATERIALS STORAGE AND USE 12
8.3 ASBESTOS-CONTAINING BUILDING MATERIALS 12
8.4 LEAD-BASED PAINT 12
8.5 CONCERNS WITH VICINITY PROPERTIES 12

9.0 CONCLUSIONS, RECOMMENDATIONS AND OPINIONS 12
9.1 HISTORIC SITE DEVELOPMENT 12
9.2 PAINT SPRAY SHED 13
9.3 ASBESTOS-CONTAINING BUILDING MATERIALS 13
9.4 LEAD-BASED PAINT 13

10.0 DEVIATIONS 13
10.1 DATA FAILURE 14
10.2 DATA GAPS 14

11.0 ADDITIONS 14

12.0 REFERENCES 14

13.0 QUALIFICATIONS AND SIGNATURE 15

FIGURES

FIGURE 1 – VICINITY MAP
FIGURE 2 – SITE PLAN
FIGURE 3 – SITE PHOTOGRAPHS

APPENDICES

A COMPLETED QUESTIONNAIRES AND PROVIDED DOCUMENTS
B REGULATORY AGENCY DATABASE REPORT
C HISTORICAL AERIAL PHOTOGRAPHS AND MAPS
D CITY DIRECTORY REPORT
E RESUME OF ENVIRONMENTAL PROFESSIONAL

1.0 INTRODUCTION

Belinda P. Blackie, P.E., R.E.A. was retained by Ashland Family Housing to perform a Phase I environmental site assessment of the Joe Parcel (site), located at 16327 Kent Avenue in San Lorenzo, California (Figures 1 and 2). May L. Joe is the current owners of the site and reportedly is considering selling the property to Ashland Family Housing for residential redevelopment.

1.1 PURPOSE

The purpose of this environmental site assessment was to identify recognized environmental conditions (RECs) associated with the site, in accordance with the scope and limitations of the American Society of Testing and Materials (ASTM) Standard E 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, and 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries; Final Rule.

1.2 SCOPE OF SERVICES

The environmental site assessment consisted of the following tasks.

- Description of historical site uses and conditions
- Reconnaissance of site
- Review of environmental databases and other publicly-available information
- Interviews with current and historic site owners/operators (when available)
- Preparation of a report summarizing the findings, conclusions, recommendations and opinions

1.3 LIMITATIONS AND EXCEPTIONS

The findings, conclusions and recommendations presented in this report were based on readily observable site conditions as of the date of the study, as well as reasonably-ascertainable public records, including information documented and provided by others. The validity, accuracy and completeness of the data provided by others have not been independently investigated; the Environmental Professional who prepared this report is not responsible for the data provided by others. The findings and conclusions in this report do not apply to conditions or practices at the site occurring after performance of the study's site reconnaissance.

No warranty, expressed or implied, has been made, except that this study has been performed in accordance with ASTM E 1527-05, Standard Practice for Environmental Site Assessment. This assessment is intended to reduce the uncertainty of the presence of RECs on the subject property, but cannot entirely eliminate uncertainty with regards to the presence of adverse environmental conditions. Parties relying on this report should understand that uncertainty regarding the environmental condition of the site further may be reduced by conducting soil and/or ground water quality investigation. The conclusions and recommendations presented in this report are professional opinions based on site data gathered at the time of this study, and are intended only for evaluation of the specified site.

Any use or reuse of this report and the findings of this study by others may not be appropriate, and are at the sole risk of the user. This report is intended to be used in its entirety, with no excerpts taken to be representative of the findings. This report is not intended as a specification for further work.

Exceptions to the ASTM E 1527-05 scope were limited to those deviations outlined in Section 10.0.

1.4 USER RELIANCE

This ESA has been prepared by Belinda P. Blackie, P.E., R.E.A. for the sole use of Ashland Family Housing and is valid for six months.

2.0 SITE DESCRIPTION

2.1 SITE LOCATION AND GENERAL CHARACTERISTICS

The site consists of one parcel of land, comprising approximately 0.11 acre, located in unincorporated San Lorenzo, Alameda County, California. The site address is 16327 Kent Avenue and the Assessor's Parcel Number (APN) for the site is 080C-0479-021.

2.2 GEOLOGIC SETTING AND HYDROGEOLOGY

The property is situated east of the San Francisco Bay, at an elevation of approximately 41 feet above mean sea level (Google Earth 2011). Located within the Coast Range geomorphic province, comprised of a series of northwest-trending mountain ranges and valleys extending subparallel to the San Andreas Fault, local geography is characterized by strike-ridges and valleys comprised of Upper Mesozoic strata (California Geological Survey 2002). Site soils have been characterized by the U.S. Department of

Agriculture's Soil Conservation Service as Danville soils, consisting of fine-grained silty clay loam to depths of at least 7 feet (EDR 2012).

The Site is located within the East Bay Plain aquifer system. Based on depth to ground water information for a vicinity property located northwest of the Site, ground water occurs at depths of approximately 6 to 8 feet beneath ground surface. The ground water flow direction was indicated as generally towards the northwest (Ninyo & Moore 2010).

2.3 CURRENT USES OF THE SITE

On May 3, 2012, a reconnaissance of the site was conducted by environmental engineer Belinda P. Blackie, P.E., R.E.A.; Ms. Blackie was accompanied by Mr. Loren Yeh, the husband of the current property owner. The reconnaissance of the interior and periphery of the site was conducted on foot. Significant limitations to the site reconnaissance were not encountered. A summary of the current site development is presented below; the site is shown on Figure 2. Photographs taken during the reconnaissance are presented in Figure 3.

At the time of the reconnaissance, the site was developed with two primary structures, a single-family residence and a detached garage, both unoccupied. The residence was vacant and observed to be in very good condition. Hazardous materials were not observed within the residence. The detached garage, located on a concrete slab foundation, also was vacant with the exception of Mr. Yeh's car. Very minor staining of the concrete floor of the garage was observed; one 1-gallon container of Bug Stop was stored on a wooden shelf. No other hazardous materials were observed.

A small wood shed on a concrete slab foundation was located adjacent to the garage. A weed trimmer and bag of concrete mix were observed within the shed; no significant staining or hazardous materials were noted. A wooden lean-to structure was constructed in the side yard adjoining west of the residence. A sink was located within the structure. A patio and lawn area were located south of the residence. One approximately 1½" diameter steel pipe cut off at ground level was observed in the lawn adjacent to the garage. Mr. Yeh stated that the pipe was a support for a previous laundry line or swing set and that a similar pipe was present elsewhere in the lawn; the second pipe was not observed.

A summary of additional site features is presented in the table on the following page.

Summary of Site Features

Feature	Observed	Not Observed	Comments
Aboveground storage tanks		✓	
Agricultural wells		✓	
Domestic wells		✓	
Drains or sumps		✓	
Drums		✓	
Hazardous substances and/or petroleum products		✓	One 1-gallon container of Bug Stop observed in garage.
Odors		✓	
Pits, ponds or lagoons		✓	
Pools of liquid		✓	
Septic system		✓	
Solid waste		✓	
Stained or corroded soil and/or pavement		✓	
Stressed vegetation		✓	
Transformers		✓	
Underground storage tanks		✓	
Wastewater		✓	

2.4 CURRENT USES OF THE ADJOINING PROPERTIES

The site is located in a residential and commercial area of unincorporated San Lorenzo, Alameda County. A private road extending west from Kent Avenue and a mobile home park adjoin the site to the north. Single-family residences and yards are adjoining to the west, south, and east.

3.0 USER-PROVIDED INFORMATION

To obtain current and historic information relating to the site, Mr. Brian Saliman, a representative of Ashland Family Housing (User), was contacted by environmental engineer Belinda P. Blackie, P.E., R.E.A. A questionnaire was provided to Mr. Saliman, which was completed and returned on May 1, 2012. A copy of the completed questionnaire is included in Appendix A. Mr. Saliman also provided a copy of an

ESA conducted on the adjoining property by RGA Environmental in 2011, titled *Environmental Site Assessment Report, Ashland Housing Project*. Information obtained from the questionnaire and previous report is summarized in the following sections as well as elsewhere in the report, as appropriate.

3.1 SPECIFIC KNOWLEDGE REGARDING SITE

Mr. Saliman reported no specific knowledge regarding the site.

Disclosure documentation included in the 2011 ESA prepared for the adjoining property reported that the 16325 and 16331 Kent Avenue properties (adjoining the subject property) had pipelines carrying oil, gas, or chemicals present beneath or adjacent. Further information on these issues was not available at the time the 2011 report was issued.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

Mr. Saliman had no knowledge of environmental liens or activity and use limitations in place for the site.

3.3 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

According to Mr. Saliman, a valuation reduction of the site due to possible environmental issues has not occurred. The purchase price for the site reportedly is above fair market value for the property, given its relationship to previously acquired property.

3.4 LAND TITLE AND RELATED RECORDS

No land title or related records were provided for review by the User.

4.0 CURRENT OWNER-PROVIDED INFORMATION

To obtain current and historic information relating to the site, Ms. Anna Lee, the agent for the Site owner, was provided with an environmental questionnaire prepared by Ms. Belinda P. Blackie, P.E., R.E.A. for the current property owner to complete. According to Ms. Lee, the current property owner will not be completing the questionnaire.

5.0 PAST SITE OWNER/OCCUPANT-PROVIDED INFORMATION

Names of past site owners and/or occupants were obtained through review of the city directories report (summarized in Section 7.2) and from Alameda County Building Department (ACBD) records (summarized in Section 7.3). Documented past site owners/occupants included Manuel Priego (1949-1952), Bob and Rita Wallace (1960), Bernard Garcia (1973-1982) and Mr./Mrs. Stine (1988). Current contact information for the parties was unavailable and therefore past site owner interviews were unable to be conducted.

6.0 RECORDS REVIEW

6.1 REGULATORY DATABASE REPORT REVIEW

As part of the assessment, EDR, Inc. was contracted to provide an electronic search of databases maintained by various Federal and State regulatory agencies, containing records of environmental permits, records of properties generating, handling or storing hazardous materials, records of properties impacted by regulated compounds, and records of properties under investigation by the government for alleged violations of hazardous material regulations. The report, prepared by EDR, Inc. on February 28, 2012, satisfies the minimum search radii as outlined in ASTM E1527-05. A record of the databases searched and dates the database information was updated is provided in the EDR Radius Map report included in Appendix B.

6.1.1 Site Facility Records

The site was not listed on any of the databases included in the EDR report.

6.1.2 Vicinity Facility Records

Database references to off-site facilities were evaluated for their potential to impact the site. Based on review of the listings in the EDR database report, the adjoining 16325 Kent Avenue property is included on the SWEEPS underground storage tank (UST) database for having one 550-gallon regular unleaded gasoline tank. No further information on the status of the UST was available in the database report; no releases were reported. Based on the 2011 ESA prepared for the adjoining property, provided by the User, it appears this UST has been removed and was granted closure by the ACDEH in 1993 due to the lack of significant impact to underlying soil (RGA 2011).

No other vicinity facilities, including those identified as "orphan" facilities, appearing likely to have a significant impact on the site were identified within the search radii of each database. Multiple facilities in the site vicinity, however, were listed as historic automobile service or repair facilities or as having fuel and/or other hazardous materials releases. Due to the regulatory status of these facilities, the types of contaminants released, the media impacted and the location of the facilities with respect to the site, they did not appear likely to have a significant impact.

6.2 SOIL VAPOR INTRUSION EVALUATION

As part of the study, a Tier 1 screening assessment of the potential for vapor encroachment conditions (VECs) to exist at the site was conducted in general accordance with ASTM E-2600-10. The site, adjoining properties and properties located up-gradient from the site, with respect to anticipated ground water flow, were evaluated for the potential to create a VEC at the site. Using data included in the EDR electronic database search report previously referenced in Section 6.1 and included in Appendix B, properties with reported releases were evaluated based on the type of chemical released and the distance from the property with the release to the site. If a petroleum hydrocarbon plume was reported within 1/10 mile of the site or a volatile organic hydrocarbon (non-petroleum hydrocarbon) plume was reported within 1/3 mile of the site in a hydraulically up-gradient direction, it was presumed a VEC could exist at the site and additional screening may be warranted. Criteria regarding the distance and direction of a potential release facility from the site may be modified based on professional judgment. Recommendation for additional screening is based on criteria including site use/proposed site use, type of site structure, physical setting, depth to ground water, soil type and presence of natural and/or man-made conduits.

Based on evaluation of the above criteria, the potential for a VEC to exist at the site appears low. No petroleum hydrocarbon or volatile organic hydrocarbon releases were reported within the specified radii of concern. Additional screening is not recommended at this time.

6.3 LOCAL PUBLICALLY-AVAILABLE RECORD REVIEW

Hazardous materials files and documents archived for the site were requested from local regulatory agencies and researched on-line.

The Alameda County Environmental Health Department (ACEHD) was contacted on May 1, 2012. According to their representative, they had no files for the site. The ACEHD local oversight program (LOP) on-line database also was reviewed on May 1, 2012; no documents for the site were archived on the website.

According to a representative of the Alameda County Fire Department (ACFD), that agency does not maintain hazardous materials or UST files.

The State Water Resources Control Board (SWRCB) Geotracker website and the California Department of Toxic Substances Control (DTSC) Envirostor websites were reviewed on May 1, 2012. No documents relating to the site were available on either website.

6.4 ENVIRONMENTAL DEED RESTRICTION SEARCH

A search for environmental deed restrictions, including liens and Activity and Use Limitations (AULs), was conducted through the DTSC Envirostor and the SWRCB Geotracker websites, accessed on May 1, 2012. The site was not listed as having any such restrictions recorded on either database.

6.5 BAAQMD

The Bay Area Air Quality Management District (BAAQMD) was contacted to ascertain whether any permits or incident reports were on file for the site. The BAAQMD had not responded to the request at the time this report was issued. No permits or incident reports are anticipated due to the residential nature of the site.

6.6 POTABLE WATER SOURCE AND METHOD OF SEWAGE DISPOSAL

Potable water for the site is provided by the East Bay Municipal Utility District (EBMUD). Sanitary sewer service is provided by the Oro Loma Sanitary District.

6.7 STATE AND FEDERAL RADON TESTING DATA

Federal and State radon screening test data for the site, reported by zip code (94580), were included in the EDR radius map report previously referenced in Section 6.1 and included in Appendix B. Based on the provided radon data, 49 Federal and 10 State radon screening tests have been performed in the site zip code. None of the State results indicated radon concentrations exceeding the EPA action level of 4 pCi/L. Radon concentrations reported in the Federal tests averaged 0.776 pCi/L in the first floor living

area, -0.400 pCi/L in the second floor living area and 1.338 pCi/L in the basement, with 100 percent of results for all areas less than 4pCi/L. Alameda County has been designated within Federal EPA Radon Zone 2, indicating indoor average radon levels between 2 pCi/L and 4pCi/L.

6.8 FEDERAL, STATE AND PUBLIC WELL DATA

Federal, State and public well location data was obtained from EDR, Inc. in the report previously referenced in Section 6.1 and included in Appendix B. Review of the Federal, State and public well database information indicated that no Federal, State or public wells are located on site.

6.9 WETLANDS

Review of the U.S. Fish and Wildlife Service, National Wetlands Inventory indicated no designated wetlands within 1 mile of the site. Review of the EDR radius map report (Section 6.1; Appendix B) and topographic maps (Section 7.1; Appendix C) also did not reveal wetlands within 1 mile of the site.

7.0 HISTORICAL REVIEW

7.1 MAPS AND AERIAL PHOTOGRAPHS

Historical maps and photographs were reviewed during this study, in an attempt to identify past site and vicinity property uses that may indicate a possible REC. The following historical sources were reviewed.

- Aerial photographs from the years 1939, 1946, 1958, 1965, 1974, 1982, 1993, 1998, 2005 and 2006 obtained from EDR, Inc. on February 29, 2012.
- Aerial photographs from the years 2002, 2009 and 2011 available on Google Earth, reviewed on May 5, 2012.
- USGS 7.5-minute topographic maps from the years 1899, 1947, 1948, 1959, 1968, 1973 and 1980 obtained from EDR, Inc. on February 29, 2012.
- Certified Sanborn fire insurance map coverage for the site was researched by EDR, Inc. and reported on February 28, 2012. No Sanborn map coverage was available for the site or surrounding vicinity.

Copies of the photographs and maps reviewed are included in Appendix C. The observations for the site and vicinity, made from the available photos and maps, are summarized in the following table.

Historical Site and Vicinity Observations

Date	Source	Observations
1899	Topographic Map	*Site:* No development was depicted on the subject property. *Vicinity:* East 14th Street, Ashland Avenue, and Kent Avenue were present in the site vicinity. Small, apparently residential, structures were depicted along the streets, which were indicated northeast of the town of San Lorenzo.
1939	Aerial Photograph	*Site:* A small structure, appearing not to be the current structure, was located on the site. *Vicinity:* A larger structure, appearing to be the barn currently present, was adjacent east of the Site. Other small structures also were located in the immediate vicinity. Orchards adjoined the Site to the southeast, with field crops adjoining the site to the west and southwest.
1946	Aerial Photograph	*Site:* The same structure observed on the 1939 photograph appeared to remain present on the site. *Vicinity:* Additional buildings appeared present in the immediate vicinity of the site, with the barn remaining present. Trees appeared to have been planted adjoining west and southwest of the site.
1947	Topographic Map	*Site:* No development was depicted on the site, but it was indicated in a small agriculturally-cultivated area. *Vicinity:* The vicinity northeast of East 14th Street and south of Elgin Street was depicted as a developed area. Sporadic agriculturally-cultivated areas and small individual structures were depicted in the immediate site vicinity, which was indicated as "Ashland".
1948	Topographic Map	*Site:* No development was depicted on the site. *Vicinity:* Small structures were depicted along surface streets present in the site vicinity.
1958	Aerial Photograph	*Site:* The current residence and detached garage appeared present on the site. *Vicinity:* Agricultural land no longer was present in the site vicinity. A trailer park was present north of the site and residential tract homes were present to the south.
1959 through 1980	Topographic Maps	*Site:* The site was indicated in a developed area, with no specific development depicted. *Vicinity:* The entire site vicinity was indicated to be a developed area. Ashland School was depicted northwest of the site.
1965 & 1974	Aerial Photographs	*Site:* The site appeared generally similar to that described for the 1958 aerial photograph. *Vicinity:* Immediately adjoining properties appeared generally similar to that described for the 1958 photograph. Ball fields associated with Edendale School had been constructed west/southwest of the site. Increased commercial and residential development was present throughout the vicinity.
1982	Aerial Photograph	*Site:* The poor resolution of the photograph made site details impossible to discern. *Vicinity:* Although details were difficult to discern due to the poor resolution of the photograph, vicinity development appeared generally similar to that described for the 1974 aerial photograph.
1993 through 2011	Aerial Photographs	*Site:* The site appeared generally similar to that described for the 1974 aerial photograph. *Vicinity:* The site vicinity appeared generally similar to that described for the 1974 aerial photograph.

7.2 CITY DIRECTORIES

As part of this study, EDR, Inc. was contracted to conduct a review of historic city directories for the site address; the summary report was received on February 29, 2012 and is included in Appendix D. City directories dated 1920 through 2006 were reviewed; the site address was included in directories dated between 1960 and 2002. Bob and Rita Wallace were listed as the occupants in 1960. Bernard Garcia was listed as the occupant in 1973 through 1982. May Ojoe was listed as the 2002 occupant.

7.3 BUILDING DEPARTMENT RECORDS

The ACBD was contacted on May 1, 2012, to ascertain whether building permit files were available for the site address. Documents available from the ACBD were reviewed on May 3, 2012. The earliest available document in ACBD files was a plan and permit for construction of the current dwelling, dated 1949. A similar plan for the current detached private garage was dated 1951 and a building permit was dated 1952. The property owner during that time period was Manuel Priego. The most recent permit in the file was for a shower remodel, dated 1988, for property owner Stine.

8.0 SUMMARY OF SIGNIFICANT FINDINGS

8.1 SITE USE

8.1.1 Current

The site currently is developed with a single-family residence and detached garage. A small storage shed also is present. The property, currently unoccupied, is owned by May L. Joe, who has owned the property since at least 2002.

8.1.2 Historic

A small structure was present on the subject property by the late-1930s. The current residence and detached garage were constructed in 1949 and 1951.

8.2 HAZARDOUS MATERIALS STORAGE AND USE

Significant quantities of hazardous materials or evidence of hazardous materials spills or releases were not observed at the site. Evidence of significant historic storage and/or use of hazardous materials at the site was not found.

8.3 ASBESTOS-CONTAINING BUILDING MATERIALS

Since the on-site structures were constructed prior to 1980, asbestos-containing building materials may be present.

8.4 LEAD-BASED PAINT

Due to the age of the buildings, lead-based paint may be present both on painted surfaces and on exposed soil surrounding painted structures, due to flaking and peeling of aged paint.

8.5 CONCERNS WITH VICINITY PROPERTIES

Information in the database search report did not reveal the presence of vicinity properties appearing likely to have significantly impacted the site.

9.0 CONCLUSIONS, RECOMMENDATIONS AND OPINIONS

This ESA has revealed the following evidence of a REC and other concerns in connection with the site.

9.1 HISTORIC SITE DEVELOPMENT

The site was developed with a small structure as early as the late-1930s, prior to construction of the current structures in 1949 and 1950. Many areas with historic structures, including those where aged structures remain present, are found to have residual metals and/or pesticides present in soil around the location of the perimeter of the structures, attributable to the application of pesticides and the flaking of lead-based paint. The potential presence of such compounds is considered a REC to the subject site. Since residential redevelopment of the site is planned, consideration should be given to evaluating soil quality around the perimeters of the current and historic structures. If significant concentrations of pesticides and/or metals are present, appropriate handling, removal and disposal may be required.

Due to the age of the historic residential structure(s) located on the subject property, and the historically rural location, a heating oil UST may be/have been present. Heating oil is relatively immobile in the subsurface however, so if a tank was/is present the likelihood of a significant release would be low. If a UST is encountered during site redevelopment, it must be appropriately removed in accordance with ACEHD requirements, and verification soil sampling and possibly limited excavation and removal of impacted soil may be required.

Other sub-grade structures including wells, pipelines, septic tanks, fill materials, buried debris, building materials and impacted soil also may be present from historic site development. If objects such as these are encountered during future development of the site, special measures for their removal may be required, possibly including soil characterization and/or remediation.

9.2 ASBESTOS-CONTAINING BUILDING MATERIALS

Since demolition of the current structures would be conducted to facilitate redevelopment of the site, a National Emissions Standards for Hazardous Air Pollutants (NESHAP) asbestos survey would be required to identify the materials in the buildings which contain asbestos. All identified potentially friable asbestos-containing materials must be removed from the buildings under applicable regulatory guidelines prior to demolition. The potential presence of asbestos in the on-site buildings is not a REC for the subject site.

9.3 LEAD-BASED PAINT

If lead-based paint remains adhered to the building materials, removal is not required prior to demolition or renovation. However, Cal/OSHA Lead in Construction Standard, Title 8, California Code of Regulations (CCR) 1532.1 must be followed during construction/demolition activities. If lead-based paint is blistered, peeling or flaking, it should be removed prior to demolition and appropriately disposed. The potential presence of lead-based paint in the on-site buildings is not considered a REC for the subject site.

10.0 DEVIATIONS

The following deviations to ASTM Practice E1527-05 occurred due to data failure and/or gaps, as summarized below.

10.1 DATA FAILURE

Data failure is an inability of the available data to meet the objectives of the study. The following data failure was encountered.

- Gaps of greater than 5 years were present in the available historic reference sources. The sources and years available appear to have adequately documented historical site development however, and therefore the data failure attributable to the historical sources appears not to be significant.

10.2 DATA GAPS

Data gaps result from insufficient information availability for the site, which may hinder the ability of the study to adequately distinguish recognized environmental conditions. The following data gaps were encountered.

- Contact with previous site owners/occupants and the current owner was unable to be made. As the subject property appears to have been continuously residentially developed, this data gap appears not to be significant.

11.0 ADDITIONS

The following additions to ASTM Practice E1527-05 were made.

- Radon data for the site vicinity was reviewed.
- State, Federal and public well data for the site vicinity was reviewed.
- National Wetlands Inventory data for the site vicinity was reviewed.

12.0 REFERENCES

ASTM. *Phase I Environmental Site Assessment Standard, E 1527-05*. 2005.

California Geological Survey. *Note 36: California Geomorphic Provinces*. 2002.

DTSC. *Envirostor Database*. Accessed May 1, 2012. http://www.envirostor.dtsc.ca.gov/public/.

EDR. *Certified Sanborn Map Report, Gaphoor/Bay Signs Property, 16375 East 14th Street, San Lorenzo, CA 94580.* Inquiry Number 3268159.3. February 28, 2012.

EDR. *The EDR Aerial Photo Decade Package, Gaphoor/Bay Signs Property, 16375 East 14th Street, San Lorenzo, CA 94580.* Inquiry Number 3268159.5. February 29 , 2012.

EDR. *The EDR-City Directory Abstract, Gaphoor/Bay Signs Property, 16375 East 14th Street, San Lorenzo, CA 94580.* Inquiry Number 3268159.6. February 29, 2012.

EDR. *The EDR Historical Topographic Map Report, Gaphoor/Bay Signs Property, 16375 East 14th Street, San Lorenzo, CA 94580.* Inquiry Number 3268159.4. February 29, 2012.

EDR. *The EDR Radius Report Map with Geocheck, Gaphoor/Bay Signs Property, 16375 East 14th Street, San Lorenzo, CA 94580.* Inquiry Number 3268159.2s. February 28, 2012.

Google Earth. *Satellite Photographs*. 2012.

RGA Environmental. *Environmental Site Assessment Report, Ashland Housing Project, 16305, 16309, 16325, 16331, and 16333 Kent Avenue, San Lorenzo, California*. May 13, 2011.

SWRCB. *Geotracker Database*. Accessed May 1, 2012. http://geotracker.waterboards.ca.gov/.

U.S. Fish and Wildlife Service. *National Wetlands Inventory.* Accessed May 1, 2012. http://www.fws.gov/wetlands/Data/Mapper.html

13.0 QUALIFICATIONS AND SIGNATURE

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.20 of 40 CFR 312. I have the specific qualifications, based on education, training, and experience, to assess a site of the nature, history and setting of the subject site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

Belinda P. Blackie, R.E.A., P.E.
P.E. Number C56448
R.E.A. Number REA-06746

FIGURES

FIGURE 3. SITE PHOTOGRAPHS

APPENDIX A

COMPLETED QUESTIONNAIRE

APPENDIX B

REGULATORY AGENCY DATABASE REPORT

APPENDIX C
HISTORICAL AERIAL PHOTOGRAPHS AND MAPS

APPENDIX D

CITY DIRECTORY REPORT

APPENDIX E

RESUME OF ENVIRONMENTAL PROFESSIONAL

Appendix F – Noise

- **Charles M. Salter Associates, Inc.** *Letter to Alicia Klein, Resources for Community Development in RE: Ashland Family Housing - Ashland, CA, Environmental Noise Study.* San Francisco, CA : s.n., October 16, 2012. CSA Project: 12-0473.

Charles M. Salter
ASSOCIATES INC.

Acoustics
Audiovisual
Telecommunications
Security

130 Sutter Street
Floor 5
San Francisco, CA
94104
T 415.397.0442
F 415.397.0454
www.cmsalter.com

16 October 2012

Alicia Klein
Resources for Community Development
2220 Oxford Street
Berkeley, CA 94704
Email: aklein@rcdev.org

Subject: **Ashland Family Housing – Ashland, CA**
Environmental Noise Study
CSA Project: 12-0473

Dear Alicia:

As requested, we have conducted an environmental noise study for the Ashland Family Housing project. The purpose of the study is to determine the noise environment at the proposed site, compare the measured data with applicable standards, and propose mitigation measures as necessary. This report summarizes the results of our study.

PROJECT CRITERIA

The project site is subject to noise criteria from the Eden Area General Plan, County of Alameda and also the California Building Code. The specific criteria for each of these are discussed below.

Eden Area General Plan, County of Alameda

Goal N-1 of the noise element for the Eden Area General Plan, County of Alameda addresses environmental noise. Policies P4 and P5 establish exterior and interior noise guidelines for land-use compatibility as follows:

- New multi-family residential developments shall be designed to maintain a standard of 65 dB L_{dn}[1] maximum in community outdoor recreation areas. Balconies shall not be considered outdoor recreation areas, thus no noise standards shall apply to these areas.
- All new residential land uses shall be designed to maintain a standard of 45 dB L_{dn} maximum in building interiors.

California Building Code

The California Building Code (Title 24, Chapter 12) requires that the indoor noise level in new multi-family housing not exceed DNL 45 dB where the exterior noise level is greater than DNL 60 dB.

---

1 Day-Night Average Sound Level (DNL) – A descriptor established by the U.S. Environmental Protection Agency to represent a 24-hour average noise level with a 10 dB penalty applied to noise occurring during the nighttime hours (10 pm to 7 am) to account for the increased sensitivity of people during sleeping hours.

Charles M. Salter, PE
David R. Schwind, FAES
Robert P. Alvarado
Eric L. Broadhurst, PE
Philip N. Sanders, LEED AP
Anthony P. Nash, PE
Thomas A. Schindler, PE
Cristina L. Miyar
Jason R. Duty, PE
Durand R. Begault, PhD, FAES
Joey G. D'Angelo
Thomas J. Corbett, CTS
Eric A. Yee
Joshua M. Roper, PE, LEED AP
Peter K. Holst, PE, LEED AP
Christopher A. Peltier, PE
Ethan C. Salter, PE, LEED AP
Thomas D. Keller, CDT
Craig L. Gilian, RCDD
Lloyd B. Ranola
Alexander K. Salter, PE
Jeremy L. Decker, PE
Rob Hammond, PSP, NICET III
Michael S. Chae
Dylan B. Mills, CTS
Davis H. Keith, CTS-D
Paul R. Billings
Erika A. Frederick
Travis R. Lawrence
Benjamin D. Piper
Elisabeth S. Kelson
Ian M. Staub
Noel J. Bacani
Joshua J. Harrison
Brian C. Wourms
Valerie C. Smith
Shanna M. Sullivan
Amanda G. Higbie
Brian J. Good
Heather A. Salter
Dee E. Garcia
Catherine F. Spurlock
Marva De Vear - Noordzee
Elizabeth F. Trocker
Jennifer G. Palmer
Jodessa P. Gregorio
Susan E. Lonergan
Heather D. Heise
Courtney H. Vineys
Erin D. Gorton

The CBC also states that if windows must be closed to meet the interior standard, the design must include a ventilation or air-conditioning system to provide a habitable interior environment.

NOISE ENVIRONMENT

The project site is located in Ashland, California at the southeast corner of E 14th Street and Kent Avenue. The project site is bordered by baseball fields to the west and single-family housing to the south. The major noise source is vehicle traffic on the nearby roadways.

To quantify the existing noise environment, we conducted three long-term noise measurements and two-short term (15-minute) measurements at the project site between 8 and 11 October 2012. An offset in noise levels between long-term and short-term monitor locations was used to estimate the L_{dn} at short-term locations (northwest and southwest corners of the project). The attached Figure 1 shows the locations for the long-term (M1, M2, and M3) and short-term (S1 and S2) measurements and the measured L_{dn}.

Long-term monitors were attached to utility poles at a height of 12 feet above grade. The two short-term measurements were conducted at approximately 40 feet above grade to represent the upper floors of the housing project.

Based on the above data, we calculated the expected L_{dn} at the various facades and elevations. The L_{dn} ranged between 58 and 75 dB across the site. The Eden Area General Plan defines this as a "conditionally acceptable" exterior noise exposure. We have added 1 dB to the expected L_{dn} to account for future traffic increases[2].

RECOMMENDATIONS

To meet the interior L_{dn} 45 dB requirement, it will be necessary for all of the facades to be sound-rated. We used the first floor plan dated 25 September 2012, the upper level floor plans dated 7 September 2012, and the elevations dated 5 October 2012 to measure the layout of the units.

Based on the above drawings, we calculated the window and exterior door STC[3] ratings needed to meet the project criterion as shown on Figures 2 to 4. If unit layout and elevations are changed significantly, the STC ratings may need to be revised.

Typical construction-grade dual-pane thermal windows achieve an STC rating of 28; one-inch assemblies (two ¼-inch thick panes with a ½-inch airspace) typically achieve an STC rating

[2] Caltrans assumes a traffic volume increase of three-percent per year, which corresponds to a 1 dB increase over ten years. In the absence of City data, we have used this same formula for the local roads.

[3] Sound Transmission Class (STC) – A single-figure rating standardized by ASTM and used to rate the sound insulation properties of building partitions. The STC rating is derived from laboratory measurements of a particular building element and as such is representative of the maximum sound insulation. Increasing STC ratings correspond to improved noise isolation.

Acoustics
Audiovisual
Telecommunications
Security

130 Sutter Street
Floor 5
San Francisco, CA
94104
T 415.397.0442
F 415.397.0454
www.cmsalter.com

of 32. Depending on the window manufacturer, STC ratings of approximately 35 or higher may require one pane to be laminated.

It is important to note that the STC ratings recommended are for full window assemblies (glass and frame) rather than just the glass itself. Tested sound-rated assemblies should be used. If non-tested assemblies were to be used, the STC rating of the glass would likely need to be increased.

The building code requires that where windows need to be closed to achieve an indoor L_{dn} of 45 dB, an alternative method of supplying fresh air (e.g., mechanical ventilation) must be provided. This applies to all units where sound-rated windows are indicated in Figures 2 to 4. This issue should be discussed with the project mechanical engineer.

* * *

This concludes our environmental noise study for the Ashland Family Housing project. Should you have any questions, please give us a call.

Sincerely,

CHARLES M. SALTER ASSOCIATES, INC.

Valerie C. Smith
Consultant

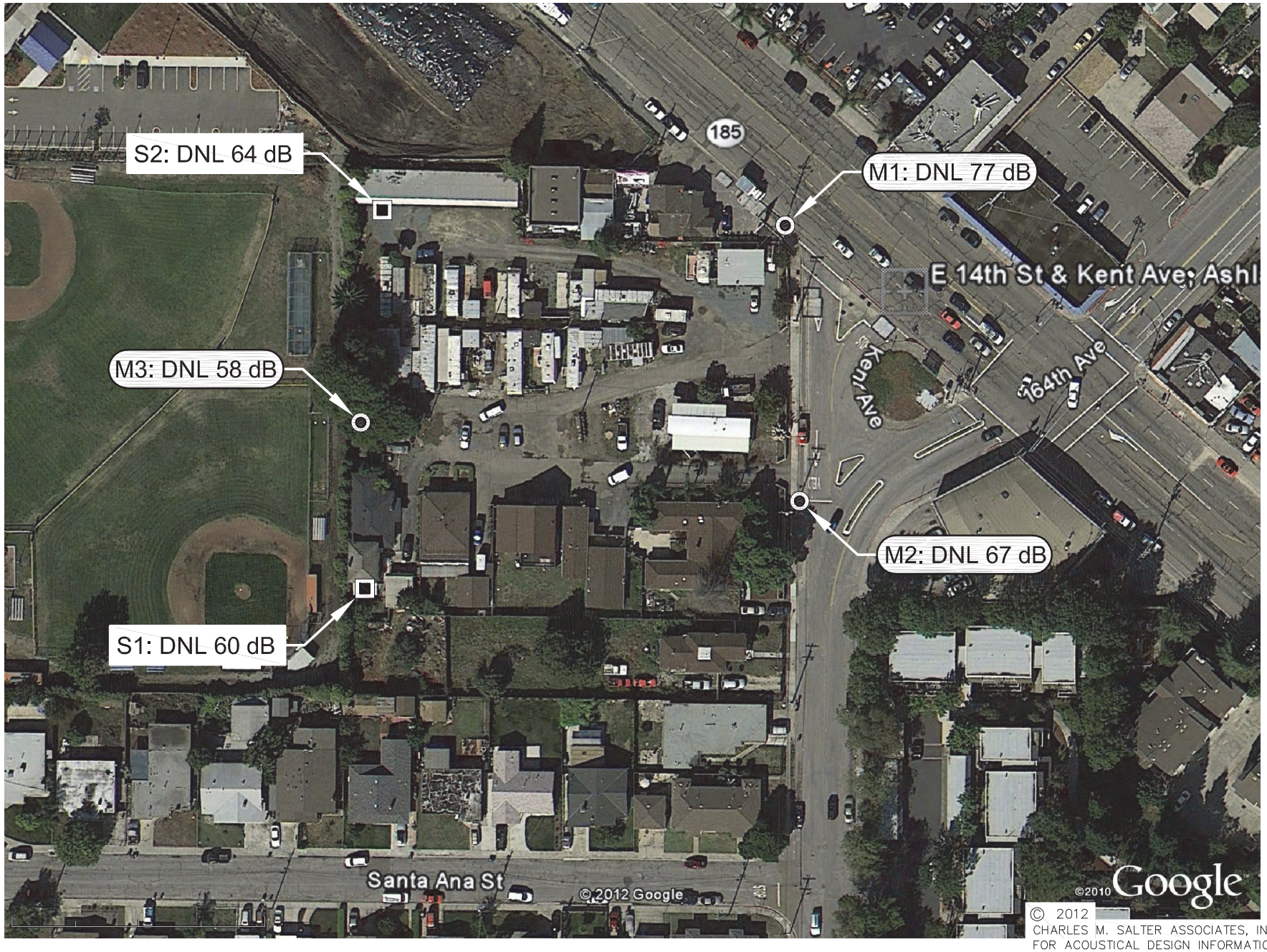
Alexander K. Salter, PE
Principal Consultant

VCS/AKS/lwd

Acoustics
Audiovisual
Telecommunications
Security

130 Sutter Street
Floor 5
San Francisco, CA
94104
T 415.397.0442
F 415.397.0454
www.cmsalter.com

Charles M Salter Associates Inc 130 Sutter Street San Francisco California 94104 Tel: 415 397 0442 Fax: 415 397 0454



© 2012
CHARLES M. SALTER ASSOCIATES, INC.
FOR ACOUSTICAL DESIGN INFORMATION ONLY

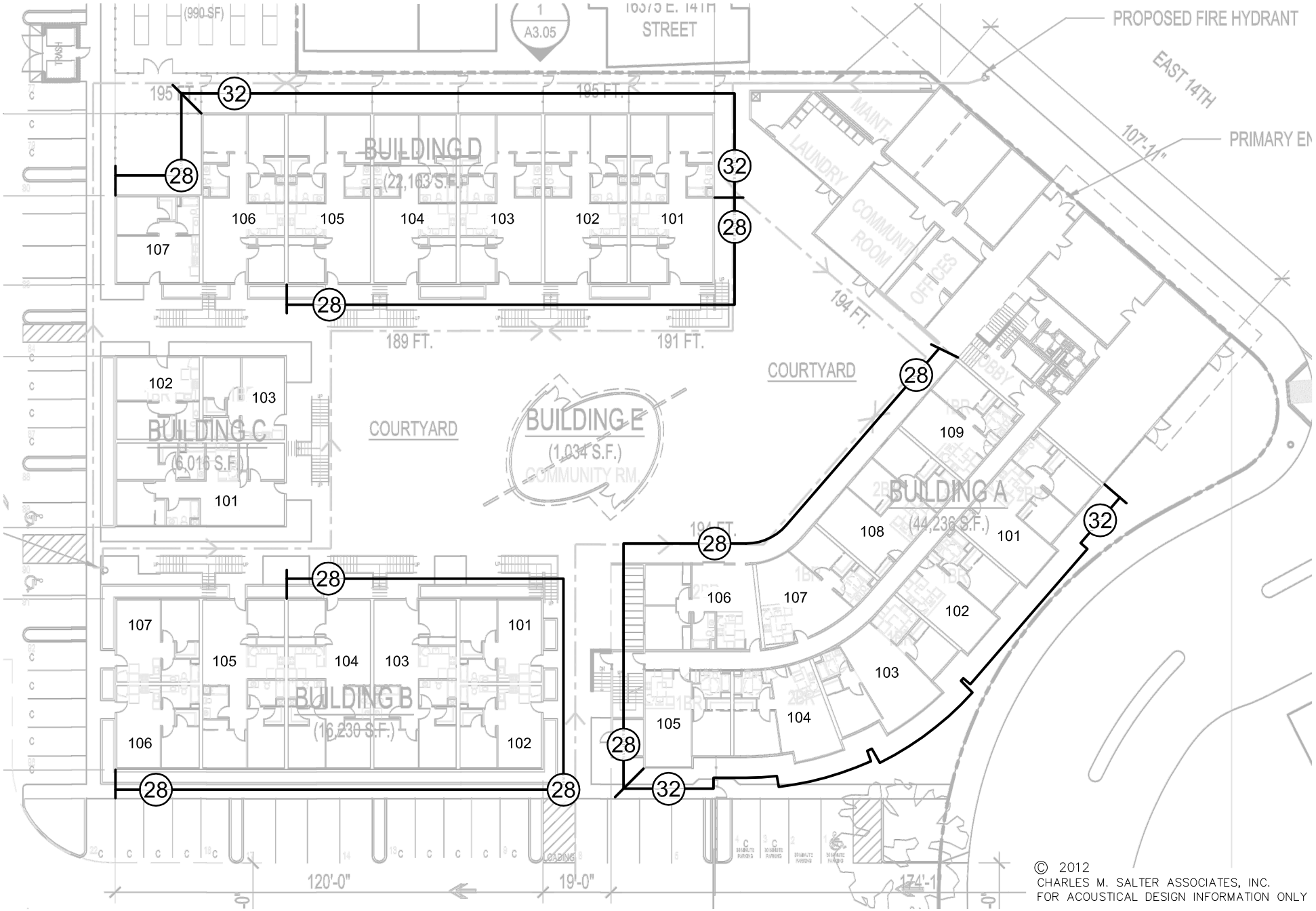
ASHLAND FAMILY HOUSING
MEASUREMENT LOCATIONS AND MEASURED DNL

FIGURE 1

CSA # 12-0473

AKS/VS 10.16.12

Charles M Salter Associates Inc
130 Sutter Street San Francisco California 94104 Tel: 415 397 0442 Fax: 415 397 0454



© 2012
CHARLES M. SALTER ASSOCIATES, INC.
FOR ACOUSTICAL DESIGN INFORMATION ONLY

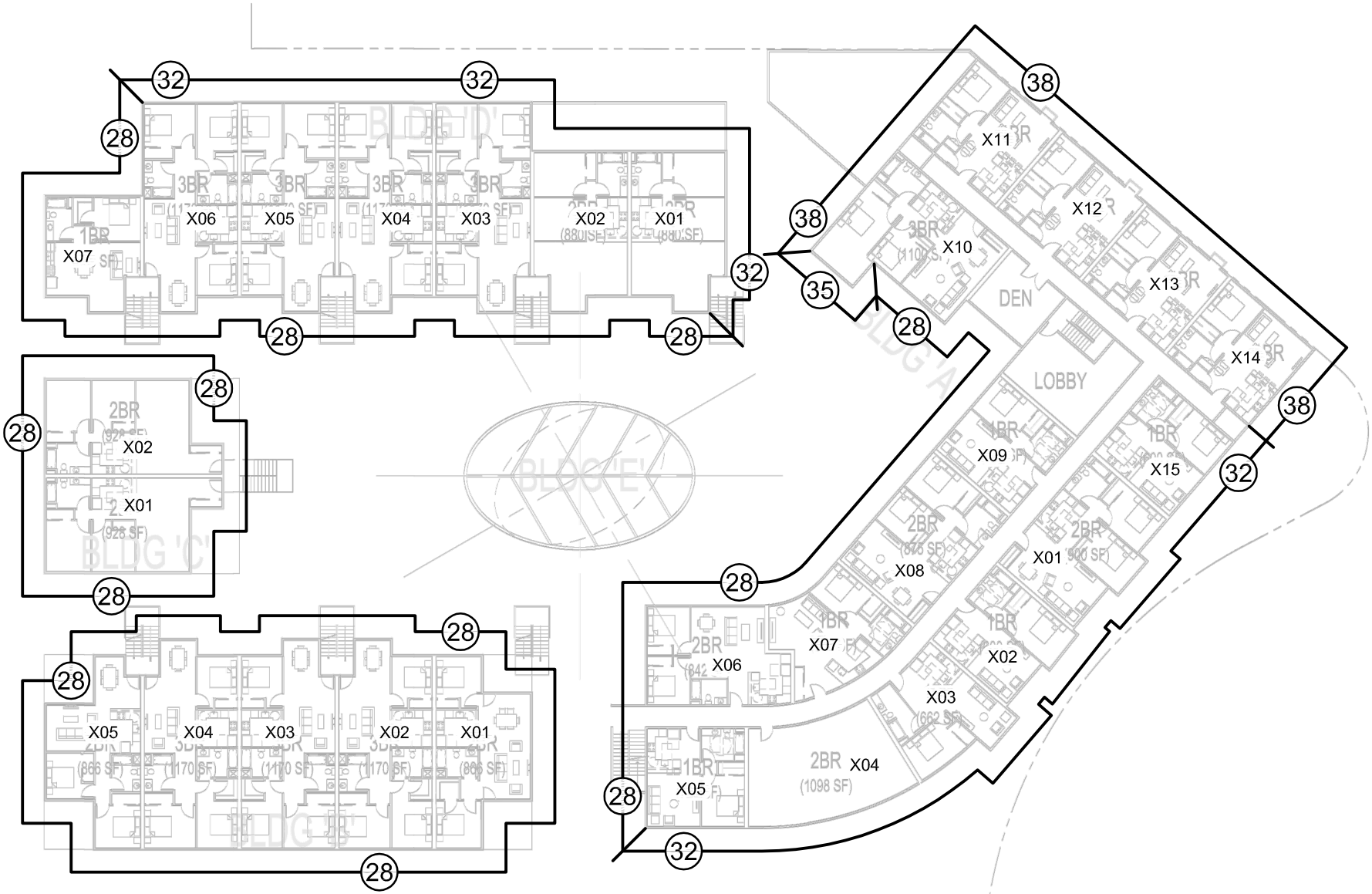
ASHLAND FAMILY HOUSING
MINIMUM RECOMMENDED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (FLOOR 1)

FIGURE 2

CSA # 12-0473

AKS/VS 10.16.12

Charles M Salter Associates Inc 130 Sutter Street San Francisco California 94104 Tel: 415 397 0442 Fax: 415 397 0454



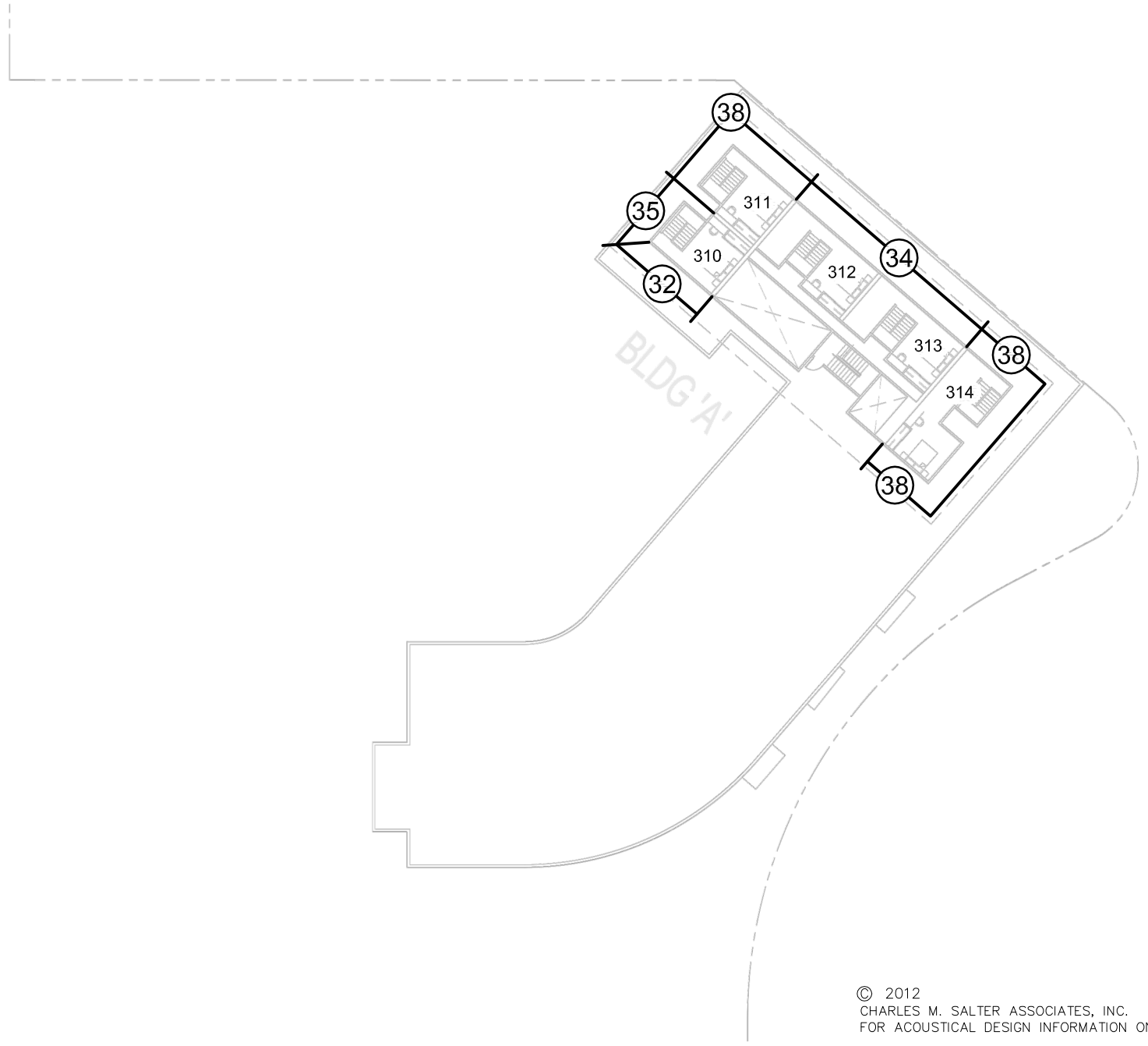
© 2012
CHARLES M. SALTER ASSOCIATES, INC.
FOR ACOUSTICAL DESIGN INFORMATION ONLY

ASHLAND FAMILY HOUSING
MINIMUM RECOMMENDED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (FLOORS 2 & 3)

FIGURE 3

CSA #	AKS/VS
12-0473	10.16.12

Charles M Salter Associates Inc 130 Sutter Street San Francisco California 94104 Tel: 415 397 0442 Fax: 415 397 0454



© 2012
CHARLES M. SALTER ASSOCIATES, INC.
FOR ACOUSTICAL DESIGN INFORMATION ONLY

ASHLAND FAMILY HOUSING
MINIMUM RECOMMENDED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (FLOOR 4)

FIGURE 4

CSA #	AKS/VS
12-0473	10.16.12

Appendix G – Transportation and Circulation

- **Kimley-Horn and Associates, Inc.** *Ashland Family Housing, Final Traffic Impact Analysis.* June 2011.

Ashland Family Housing

Final
Traffic Impact Analysis

Prepared by:

Kimley-Horn
and Associates, Inc.

June 2011

Kimley-Horn and Associates, Inc.

TABLE OF CONTENTS

INTRODUCTION 1

PROJECT OVERVIEW 1
ANALYSIS SCENARIOS 3
STUDY METHODOLOGY AND IMPACT CRITERIA 3
SIGNIFICANCE CRITERIA 5

REGIONAL AND LOCAL GOALS, POLICIES, AND ACTIONS 7

EDEN AREA GENERAL PLAN 7
CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) 10

EXISTING CONDITIONS 11

ROADWAY NETWORK/STREET CLASSIFICATIONS 11
STUDY AREA CIRCULATION SYSTEM 11
INTERSECTION OPERATIONS 12
ROADWAY SEGMENT OPERATIONS 13
TRANSIT NETWORK 17
BICYCLE FACILITIES 18
PEDESTRIAN FACILITIES 19
PLANNED AND PROPOSED TRANSPORTATION PROJECTS/STUDIES 19

EXISTING PLUS PROJECT CONDITIONS 23

PROJECT TRIP GENERATION 23
PROJECT TRIP DISTRIBUTION AND ASSIGNMENT 24
INTERSECTION OPERATIONS 27
ROADWAY SEGMENT OPERATIONS 28
EXISTING PLUS PROJECT CONDITIONS IMPACT ANALYSIS 30
PEDESTRIAN AND BICYCLE FACILITIES 30
TRANSIT FACILITIES 31

CUMULATIVE (2035) NO PROJECT CONDITIONS 32

INTERSECTION OPERATIONS 34
ROADWAY SEGMENT OPERATIONS 34

CUMULATIVE (2035) PLUS PROJECT CONDITIONS 35

INTERSECTION OPERATIONS 35
ROADWAY SEGMENT OPERATIONS 36
QUEUING SUMMARY 36
CUMULATIVE (2035) PLUS PROJECT CONDITIONS IMPACT ANALYSIS 38
PEDESTRIAN AND BICYCLE FACILITIES 38
TRANSIT FACILITIES 39

REFERENCES 40

APPENDIX 41

K:\SAC_TPTO\Pleasanton Projects\Ashland Family Housing (Pleasanton)\04 Report\2011-06-22_Ashland Family Housing_Final_TIA.docx

LIST OF TABLES

Table 1: Level of Service Definitions....4
Table 2: Level of Service Definitions for Signalized and Unsignalized Intersections....4
Table 3: Existing Conditions – Intersection Levels of Service....13
Table 4: Existing Conditions – Roadway Segment Levels of Service....14
Table 5: Project Trip Generation....24
Table 6: Existing Plus Project Conditions – Intersection Levels of Service....27
Table 7: Existing Conditions – Roadway Segment Levels of Service....28
Table 8: Cumulative (2035) No Project Conditions – Intersection Levels of Service....34
Table 9: Cumulative (2035) No Project Conditions – Roadway Segment Levels of Service....34
Table 10: Cumulative (2035) Plus Project Conditions – Intersection Levels of Service....35
Table 11: Cumulative (2035) Plus Project Conditions – Roadway Segment Levels of Service....36
Table 12: Cumulative (2035) Plus Project Conditions – Queuing Summary....36

LIST OF FIGURES

Figure 1: Existing Study Area, Roadway Classification, and Intersection Locations....2
Figure 2: Existing Intersection Geometry and Traffic Control....15
Figure 3: Existing Peak Hour Intersection Turning Movement Volumes....16
Figure 4: Existing Transit Circulation....21
Figure 5: Non-Motorized Transportation Facilities....22
Figure 6: Project Trip Distribution....25
Figure 7: Traffic Assignment....26
Figure 8: Existing Plus Project Turning Movement Volumes....29
Figure 9: Cumulative No Project Conditions Peak Hour Turning Movement Volumes....33
Figure 10: Cumulative plus Project Peak Hour Turning Movement Volumes....37

INTRODUCTION

Kimley-Horn and Associates, Inc. (Kimley-Horn) has been retained by Resources for Community Development (RCD) to prepare a traffic study for the Ashland Family Housing project in the Ashland community of unincorporated Alameda County, California. The analysis concentrated on the proposed project's impacts to intersection operations, pedestrian and bicycle facilities, and the transit network.

Project Overview

The Ashland community is a part of the Eden Area, which consists of the unincorporated land in western Alameda County between the cities of San Leandro and Hayward and west of the County's Castro Valley planning area. Ashland is generally bound by I-580 to the east, the San Lorenzo Creek to the south, and the City of San Leandro to the north and west.

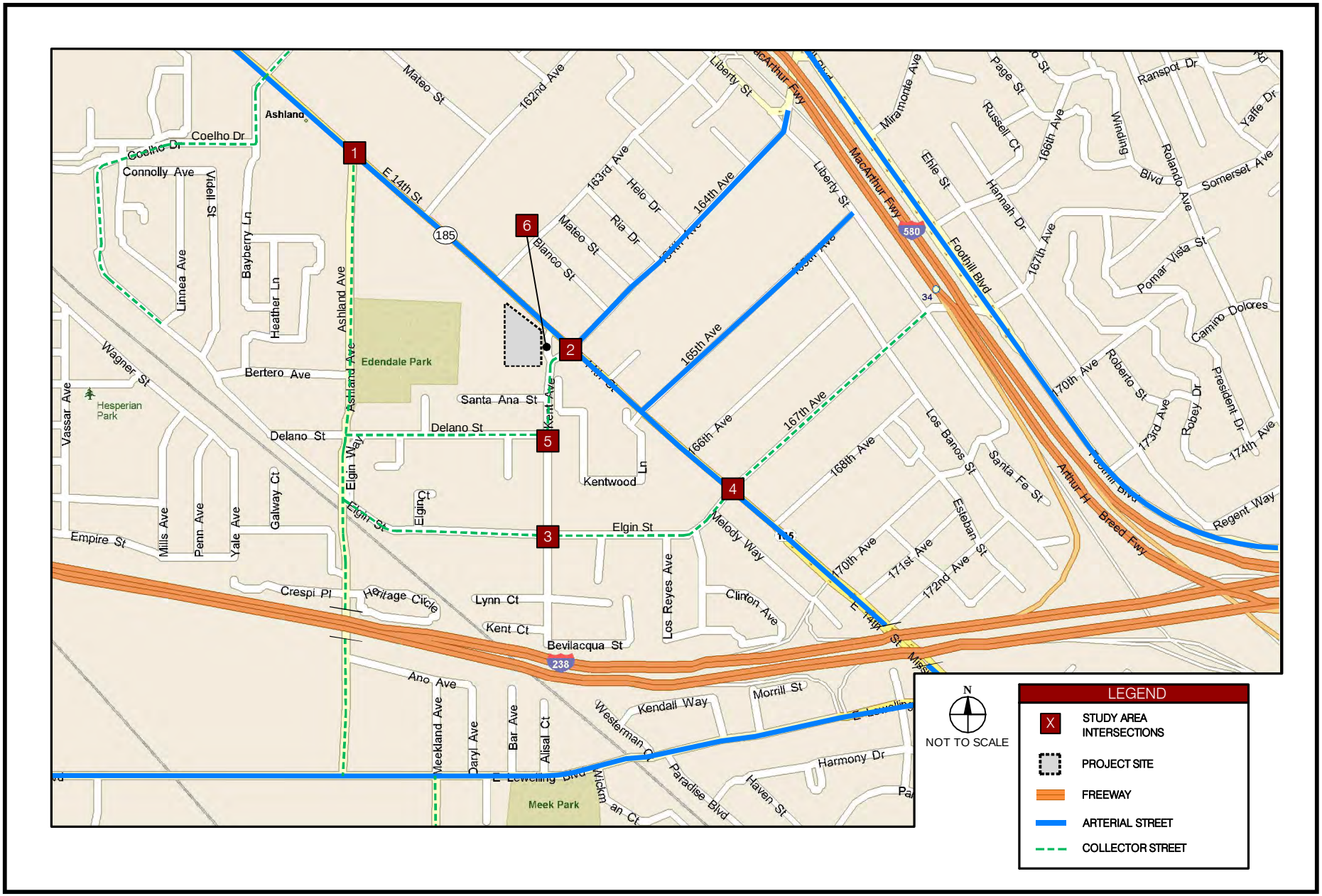
RCD is proposing to redevelop several parcels in the Ashland community to provide 85 affordable rental apartments to lower income families and emancipated foster youth. The 1.89 acre site is located at the intersection of East 14th Street and Kent Avenue, adjacent to Edendale Park and Edendale Middle School playfields. The site currently consists of a mobile home park with 13 mobile homes, three single family residences, and several outbuildings. The development of the new Youth Center by the Alameda County Redevelopment Agency adjacent to the site creates an opportunity for service linkages with potential residents.

The site location provides good access to the local and regional roadway network, in addition to various transit options. Three interstate freeways, I-580, I-880, and I-238, are located within several miles of the site, in addition to East 14th Street, a major north-south arterial accessing the neighboring cities. There are several AC Transit routes in the area, in addition to the Bay Fair BART station less than one mile to the west and the Amtrak Capitol Corridor station in Hayward approximately two miles to the south.

Numerous local streets provide access within and through Ashland and to the neighboring communities. The Plan study area and study intersection locations are illustrated in **Figure 1**.

Kent Avenue currently intersects East 14th Street at two locations – at a signalized intersection aligning with 164th Avenue and at an unsignalized intersection approximately 100 feet to the northwest of the signalized intersection. Currently, the unsignalized intersection provides right turn access from eastbound East 14th Street to southbound Kent Avenue and right turn access for northbound Kent Avenue to eastbound East 14th Street. A majority of the northbound Kent Avenue to eastbound East 14th Street currently uses the signalized intersection.

As part of this redevelopment plan, the portion of Kent Avenue that aligns with the unsignalized intersection at East 14th Street would be vacated and relinquished by the County from the roadway system and incorporated into the proposed site. This would shift traffic using the unsignalized intersection to use the signalized intersection at 164th Avenue.



Kimley-Horn and Associates, Inc.

© 2011

FIGURE 1

EXISTING STUDY AREA,

ROADWAY CLASSIFICATION, AND INTERSECTION LOCATIONS

Analysis Scenarios

For purposes of CEQA and identification of project-specific impacts and mitigation measures, this report evaluates the study area intersection traffic conditions for the AM and PM peak hours under the following scenarios:

- **Existing Conditions**: Existing traffic volumes obtained from current weekday peak hour traffic counts.
- **Existing Plus Project**: Existing traffic volumes obtained from counts plus additional vehicular trips generated by the land uses proposed in the Community Plan.
- **Cumulative (2035) Conditions – No Project**: Estimated traffic volumes for the year 2035 based on growth factors derived from the City/County Association of Governments of San Mateo County (C/CAG) travel forecasting model based on build out of the General Plan.
- **Cumulative (2035) Conditions Plus Project**: 2035 No Project volumes plus additional vehicular trips generated by the land uses proposed in the Community Plan.

Baseline conditions (Existing and Cumulative No Project) establish background conditions for the evaluation of the project in the future and form the basis for determining and comparing Project and Cumulative impacts.

Study Methodology and Impact Criteria

The traffic analysis of the study intersections was conducted in accordance with the requirements from Appendix B of the C/CAG's *Congestion Management Plan for 2009*. This requires that the latest version of the *Highway Capacity Manual* (HCM) or the Transportation Board's *Circular 212* methodology be used to calculate levels of service.

Level of service (LOS) is a qualitative term describing operating conditions a driver will experience while traveling on a particular street or at an intersection during a specific time interval. It ranges from LOS A (very little delay) to LOS F (long delays and congestion). **Table 1** provides a definition for each level of service category.

Signalized Intersections

Signalized intersection level of service is measured as the average control delay in seconds per vehicle. Control delay is the portion of the total delay experienced by drivers at intersections that is attributable to traffic signal operation. It includes the delay for decelerating to a stop at a signal, moving slowly in a queue of vehicles, stopped delay, and acceleration after the signal turns green. **Table 2** summarizes the relationship between the level of service rating and control delay for signalized intersections. To evaluate signalized intersections, the operations method of the *Highway Capacity Manual (HCM)*, Transportation Research Board, National Research Council, 2000 was utilized.

Unsignalized Intersections

Unsignalized intersection level of service evaluation also utilized the HCM 2000 operations methodology. This methodology determines the LOS based on delay. Similar

to signalized intersections, the measure of effectiveness of an unsignalized intersection is measured in average control delay; however, the delay is reported for the worst-case approach of the intersection. The LOS criteria for unsignalized intersections are summarized in **Table 2**.

Table 1: Level of Service Definitions

Level of Service	Description
A	Free flow with no delays. Users are virtually unaffected by others in the traffic stream. At signalized intersections, turning movements are easily made and all queues clear in a single signal cycle.
B	Stable traffic. Traffic flows smoothly with few delays. An occasional approach phase is fully utilized. Drivers begin to feel somewhat restricted within platoons of vehicles.
C	Stable flow but the operation of individual users becomes affected by other vehicles. Modest delays. Major approach phases fully utilized. Backups may develop behind turning vehicles.
D	Approaching unstable flow. Operation of individual users becomes significantly affected by other vehicles. Delays may be more than one cycle during peak hours. Queues may develop but dissipate rapidly, without excessive delays.
E	Unstable flow with operating conditions at or near the capacity level. Long delays and vehicle queuing.
F	Forced or breakdown flow that causes reduced capacity. Traffic demand exceeds the capacity. Stop and go traffic conditions. Excessive long delays and vehicle queuing.

Source: Transportation Research Board, *Highway Capacity Manual 2000*, National Research Council, 2000.

Table 2: Level of Service Definitions for Signalized and Unsignalized Intersections

Level of Service	Signalized Intersection Control Delay (seconds/vehicle)	Unsignalized Intersection Control Delay (seconds/vehicle)
A	≤ 10	0 to 10
B	> 10 – 20	> 10 to 15
C	> 20 – 35	> 15 to 25
D	> 35 – 55	> 25 to 35
E	> 55 – 80	> 35 to 50
F	> 80	> 50

Source: Transportation Research Board, *Highway Capacity Manual 2000*, National Research Council, 2000.

Traffic Signal Warrants

The installation of a traffic signal is often considered when intersection levels of service drop below acceptable standards. Many times, they are needed to offer side street traffic an opportunity to access a major road where high volumes and/or high vehicle speeds impede crossing or turn movements. Signals do not, however, increase the capacity of an intersection. In fact, they often slightly reduce the number of total vehicles that can

pass through an intersection in a given period of time. Signals can also cause an increase in certain types of traffic accidents if installed at inappropriate locations.

Tests for determining whether a traffic signal should be considered for installation have been developed in the 2003 Manual of Uniform Traffic Control Devices (MUTCD). These tests, called "warrants," consider criteria such as traffic volume, pedestrian volume, presence of school children, and accident history. There are a total of eleven signal warrants used in the State of California and usually two or more warrants must be met before a signal is installed. An intersection meets Warrant #3, the Peak Hour Signal Warrant, when traffic volumes on the major and minor approaches exceed specified thresholds for at least one hour of the day. When the conditions of Warrant #3 are met, there is a strong indication that a detailed signal warrant analysis covering additional warrants is appropriate.

Significance Criteria

The thresholds used to determine the significance of transportation impacts are based on standards set based on the type of transportation facility and the jurisdiction that controls the facility, including the County of Alameda and Caltrans. For this analysis, the relevant criteria for impacts at intersections are based on the Alameda County and Caltrans level of service (LOS) guidelines, depending on the jurisdiction of the intersection. The following standards for intersections will be applied, where applicable.

Alameda County intersections and roadway segments
According to Alameda County guidelines, a development is said to create a significant adverse impact on traffic conditions at an intersection if one or more of the following conditions occurred:

- Level of service (LOS) exceeds the conditions expected under the No Project baseline by a full letter grade and:
    - LOS is below E for freeways;
    - LOS is below C for all other major streets and highways during non-peak travel periods and below D during peak travel periods.
- When LOS under the No Project baseline condition is already below standard for peak hours and:
    - Traffic generated by the proposed Plan causes a change in volume-to-capacity (V/C) ratio of three (3) percent or more (the 3 percent level has been found to be the threshold for which a perceived change in congestion is observed, and is equivalent to about one-half of the change from one level of service to the next); or
    - The proposed Plan causes the average delay per vehicle at an intersection to exceed that of the No Project condition by 5 seconds or more.

California Department of Transportation (Caltrans) intersections

The study area intersections along East 14th Street are under the jurisdiction of Caltrans. The Guide for the Preparation of Traffic Impact Studies (2002) defines the following LOS standards for State-operated facilities, which include intersections on State Routes:

- Caltrans endeavors to maintain a target LOS at the transition between LOS C and LOS D.
- If an existing State-operated facility is operating at less than LOS C, the existing LOS should be maintained. Caltrans staff has indicated that Caltrans considers any increase in traffic to a state-operated facility operating at an unacceptable level of service is considered a significant impact.

Pedestrian System Impact Criteria

A significant impact related to the pedestrian system would occur if the implementation of the proposed project causes:

- Disruption to existing pedestrian facilities, or interferes with planned pedestrian facilities;
- Inconsistencies with adopted pedestrian system plans, guidelines, policies, or standards;
- Vehicles to cross pedestrian facilities on a regular basis without adequate design and/or warning systems, causing safety hazards.

Bicycle System Impact Criteria

Bicycle impacts are considered significant if implementation of the project results in any of the following:

- Disrupts existing, or interferes with planned bicycle facilities;
- Creates inconsistencies with adopted pedestrian system plans, guidelines, policies, or standards;
- Increases potential for bicycle/vehicle conflicts.

Transit System Impact Criteria

Transit impacts are considered significant if implementation of the project results in the following:

- Disrupts existing, or interferes with planned transit services or facilities;
- Creates inconsistencies with adopted transit system plans, guidelines, policies, or standards;
- Creates demand for public transit services above that which is provided or planned.

REGIONAL AND LOCAL GOALS, POLICIES, AND ACTIONS

The goal of the Eden Area General Plan Circulation Element is "to establish goals, policies and actions to regulate and improve the Eden Area's transportation systems. This Element balances the needs to move people and goods by multiple transportation modes and routes with the overall desire to maintain the Eden Area as a safe, attractive community with walkable neighborhoods and vibrant retail districts. The transportation corridors of the Eden Area must accommodate development planned for the area, minimize environmental degradation, and complement regional transportation and land use plans.

Eden Area General Plan

The Eden Area General Plan Circulation Element includes several goals, policies and actions that address a range of transportation issues. The following are the proposed goals of the General Plan and the policies and actions most relevant to the proposed project:

Goal CIR-1 Provide attractive streets designed to serve a broad spectrum of land use patterns and travel modes.

Policies

- P1. The County should develop functional classification and street design standards that allow for variations in street width based on the function of the facility and the land use context. These "context-sensitive" roadway designs should have the following aims:
    - Use design features to make the corridor a center of community activity.
    - Create an aesthetically attractive streetscape and safe pedestrian environment.
    - Increase bicycle safety by following accepted standards or by designing a bicycle circulation system.
    - Balance the needs of autos, pedestrians, trucks, transit and bicyclists. The extent to which each mode is emphasized should vary according to the function of the roadway and the adjacent existing and future land uses.
    - Decrease the impacts of roadways on surrounding uses by slowing speeds, reducing noise impacts and emphasizing pedestrian travel.
- P3. Land use concepts shall be promoted that minimize automobile trips and encourage walking, bicycling and transit use.
- P5. New developments shall mitigate the full impacts of their projects on the transportation system. A variety of mitigation measures should be considered, including impact fees, street improvements and transportation demand management (TDM) measures.
- P6. New developments shall incorporate design features that encourage use of alternative modes such as transit, bicycling and walking.

Goal CIR-2 Adopt and enforce level of service (LOS) standards that provide a high level of mobility and accessibility for all travel modes.

Policies

- P1. An LOS of E or better shall be applied to Congestion Management Program (CMP) Roadways: Foothill Boulevard, Center Street, "A" Street, Hesperian Boulevard, Interstate 880, Interstate 580 and Interstate 238.
- P2. An LOS of D or better shall be applied to all non-CMP roadways during peak travel periods.
- P3. The County may allow individual locations to fall below the LOS standards in instances where the construction of physical improvements would be infeasible, prohibitively expensive, significantly affect adjacent properties or the environment, have a significant adverse impact on the character of the Eden Area, or where the lower standard results from significant physical improvements to transit, bicycle or pedestrian facilities.
- P4. Intersections may be permitted to fall below their adopted LOS standards on a temporary basis when the improvements necessary to preserve the LOS standard are in the process of construction or have been designed and funded but not yet constructed.

Goal CIR-3 Provide for efficient motor vehicle circulation within the Eden Area.

Goal CIR-4 Provide access and circulation along Corridors and in Districts while respecting the intensity of adjacent development.

Policies

- P2. At intersections located in and immediately adjacent to Districts, pedestrian and transit circulation should take precedence over the movement of motor vehicles. The Districts identified and described in the Land Use Element are:
    - East 14th Street at Ashland Avenue.
- P3. On-street parking should be allowed, where appropriate, along Corridors and in Districts to provide access to adjacent land uses and to serve as a buffer for pedestrians.
- P6. Wide sidewalks shall be provided in Districts and along Corridors. Where it is not possible to provide wide sidewalks continuously along a Corridor, sidewalks shall be widened at their most congested locations such as in Districts located along corridors and at bus stops.

Goal CIR-5 Ensure that public transit is a viable alternative to driving in the Eden Area.

Policies

- P1. Encourage AC Transit and BART to provide transit service throughout the Eden Area, preferably within one-quarter mile of all residences, businesses, health care, parks and service facilities.
- P2. The County should work with AC Transit and BART to ensure that the frequency and duration (hours of operation) of transit service is adequate and that overall travel time and convenience of travel by public transit is comparable to travel by other modes.
- P3. The County shall support efforts to enhance regional transit service serving the Eden Area, such as the extension of BART to San Jose and enhanced bus service on East 14th Street/Mission Boulevard and Hesperian Boulevard.

- P4. The County shall promote Transit-Oriented Development (TOD) opportunities and pursue available grant funding from local, state and federal sources to fund potential projects.

Goal CIR-6 Complete and enhance the pedestrian circulation network serving the Eden Area.

Policies

- P1. Walking shall be considered an essential and integral part of the County's circulation network.
- P2. An uninterrupted pedestrian network of sidewalks, with continuous sidewalks along both sides of streets, should be ensured. An interconnected pedestrian network is essential to a functional and safe walking environment.
- P4. Ample crossing opportunities shall be provided, especially in Districts and along Corridors. In addition to marked crosswalks at all intersections, mid-block crossings and adequately timed signals should be provided at intersections which are too widely spaced for reasonable pedestrian access.
- P6. New development projects shall be required to provide sidewalks and direct pedestrian connections to adjacent neighborhood streets.
- P9. The County's pedestrian system shall have a high level of connectivity, especially between residences and common local destinations, such as schools, shopping and parks.
- P10. The County shall investigate measures to enhance access and circulation as required by the Americans with Disabilities Act.
- P11. The County shall promote Transit-Oriented Development (TOD) opportunities and pursue available grant funding from local, State and federal sources to fund potential projects.

Goal CIR-7 Promote bicycling as a form of transportation within the Eden Area.

Policies

- P1. Bicycling shall be considered an essential and integral part of the County's circulation network.
- P2. The County shall develop and maintain a bikeway system for the Eden Area that effectively serves residential areas, employment centers, schools, parks and transit stations.
- P3. Safe and direct bicycle facilities should be constructed to provide access from residential neighborhoods to the Bay Fair and Hayward BART stations and the Amtrak Capitol Corridor station south of the Eden Area.
- P6. New commercial, office and Research & Development projects and multi-family residential development projects shall provide safe and secure covered bicycle parking or storage facilities.

Goal CIR-8 Provide for adequate truck circulation to allow for the efficient transport of goods within the Eden Area while protecting neighborhoods from truck related impacts.

Goal CIR-9 Minimize the negative effects of traffic on adjacent land uses and improve traffic safety.

Policies

- P1. Use of local residential streets by non-local and commercial traffic should be discouraged.
- P2. Appropriate buffering and screening mechanisms should be incorporated in development projects to limit the impacts associated with motor vehicle traffic and parking.
- P4. The County shall implement traffic calming measures in order to reduce travel speeds and create a safer pedestrian environment. Priority measures should include street trees, pedestrian-scaled lighting, speed bumps, traffic circles and bulb-outs at intersections.
- P6. Safety around at-grade railroad crossings along Western Boulevard and Grant Avenue should be improved through a variety of physical design techniques such as increasing signage, restricting pedestrian access, and creating more gradual transitions in-grade between parallel roadways and the railroad tracks.

California Department of Transportation (Caltrans)

Caltrans builds, operates, and maintains the State Highway system, including the Interstate Highway system. Caltrans' mission is to improve mobility statewide. The department operates under strategic goals to provide a safe transportation system, optimize throughput and ensure reliable travel times, improve the delivery of state highway projects, provide transportation choices, and improve and enhance the states investments and resources. Caltrans controls the planning of the state highway system and accessibility to the system. Caltrans establishes LOS goals for highways and works with local and regional agencies to assess impacts and develop funding sources for improvements to the State Highway system. Caltrans requires encroachment permits from agencies or new development before any construction work may be undertaken within the state's right-of-way. For projects that would impact traffic flow and levels of services on state highways, Caltrans would recommend measures to mitigate the traffic impacts.

EXISTING CONDITIONS

This section describes the current transportation network within the study area, including roadway, bicycle, pedestrian, and transit facilities. The existing traffic operations of the study area intersections are analyzed and discussed.

Roadway Network/Street Classifications

The existing circulation network within the project vicinity is composed of freeways, arterials, collectors, and local streets. Several of the arterials are classified as state highways, as well. The Eden Area General Plan (2010) provides the definitions below for street classifications, which govern engineering design standards and the roadway level of service thresholds:

Freeways – A freeway is a high-speed, high-capacity transportation facility that serves regional and countywide travel, and provides for relatively long trips between major land use generators. Freeways are typically divided highways for through traffic with full control of access and grade separation at intersections.

Arterial – An arterial is a relatively high mobility, high capacity roadway that provides access to regional transportation facilities and serve relatively long trips. They also accommodate intra-community travel and connect the rest of the countywide collector system.

Collectors – A collector is a relatively low-speed, low-volume street with two lanes that provides for circulation within and between neighborhoods. These roads serve relatively short trips and are meant to collect traffic from local streets and distribute them to the arterial network.

Local Streets – A local street provides access to individual properties, primarily residences and businesses, and connects to the County's network of arterial and collector streets.

Study Area Circulation System

The study area circulation system is comprised of arterials, collectors and local streets that provide both regional and local access to the site. The Ashland community is connected to several regional highways, including I-580 and I-880, which provide access to the Bay Area communities, and I-238. The existing vehicular circulation system within the study area is shown in **Figure 1** and the key access routes are described below:

East 14th Street (SR 185) is a four-lane state highway that operates as a parallel route to I-880 and I-580 and provides regional access to Oakland and San Leandro to the northwest and Hayward and Fremont to the southeast. The speed limit in the area is 35 mph and on-street parking is permitted along the corridor. This segment is also classified as a truck route.

Kent Avenue is a two-lane, north-south street classified as a collector from East 14th Street to Delano Street and a local street south of Delano Street. The posted speed limit is 25 mph and on-street parking is permitted.

Ashland Avenue is a two-lane, north-south street classified as a collector through the study area. The posted speed limit is 25 mph and on-street parking is permitted.

164th Avenue is a two-lane, north-south street classified as an arterial from East 14th Street to Foothill Boulevard with Class II bicycle lanes. The posted speed limit is 25 mph and on-street parking is permitted. This segment is also classified as a truck route.

167th Avenue is a two-lane, north-south street classified as a collector from East 14th Street to Foothill Boulevard with Class II bicycle lanes. The posted speed limit is 25 mph and on-street parking is permitted.

Delano Street is a two-lane, east-west street classified as a collector through the study area. The posted speed limit is 25 mph and on-street parking is permitted.

Elgin Street is a two-lane, east-west street classified as a collector through the study area. The posted speed limit is 25 mph and on-street parking is permitted.

Intersection Operations

Intersection turning movement counts were collected on a typical weekday between 7:00-9:00 AM and 4:00-6:00 PM at all of the study area intersections. The traffic counts were conducted on May 24, 2011. A field visit was also conducted to observe intersection geometry, intersection control, pedestrian and bicycle accessibility, and queue lengths. The existing intersection geometry and traffic control is illustrated in **Figure 2**. The existing conditions traffic volumes are shown in **Figure 3**.

The following intersections were evaluated under existing conditions for the AM and PM peak hours:

1. East 14th Street (SR 185) and Ashland Avenue (signal)
2. East 14th Street (SR 185) and 164th Avenue /Kent Avenue (signal)
3. Kent Avenue and Elgin Street (all-way stop controlled)
4. East 14th Street (SR 185) and 167th Avenue/Elgin Street (signal)
5. Kent Avenue and Delano Street (two-way stop controlled)

A traffic operations model was developed for the study area using TRAFFIX software, which utilizes the methodology of the 2000 Highway Capacity Manual (HCM). **Table 3** summarizes the existing intersection levels of service for the AM and PM peak hour.

As **Table 3** illustrates, all of the study area intersections currently operate at acceptable levels of service.

Table 3: Existing Conditions – Intersection Levels of Service

Intersection	Traffic Control	Peak Hour	Average Delay[1]	LOS[2]	LOS Standard[3]
1. East 14th Street and Ashland Avenue	Signal	AM PM	23.4 14.2	C B	C/D
2. East 14th Street and 164th Avenue/Kent Avenue	Signal	AM PM	21.9 16.3	C B	C/D
3. Kent Avenue and Elgin Street	AWSC	AM PM	7.9 7.6	A A	D
4. East 14th Street and 167th Avenue/Elgin Street	Signal	AM PM	18.7 18.0	B B	D
5. Kent Avenue and Delano Street	TWSC	AM PM	13.1 10.8	B B	C/D

Notes:

1. Whole intersection weighted average total delay for signalized and all-way stop-controlled intersections (expressed in seconds per vehicle).
2. LOS calculations performed using the 2000 *Highway Capacity Manual*.
3. LOS standard for Caltrans and Alameda County.
4. Unacceptable operations are indicated in **bold** type.
5. AWSC – All-Way Stop controlled, TWSC – Two-Way Stop controlled

Roadway Segment Operations

In addition to intersection analysis, the County requested that several roadway segments also be analyzed for potential impacts. Therefore, a peak hour roadway segment analysis was conducted on Ashland Avenue, Elgin Street, Kent Avenue, and Delano Street in the vicinity of the project site. The peak hour roadway volumes were derived from the peak hour intersection turning movement counts collected in May 2011.

All four roadway segments are two lane roads classified as collector streets by the County. Capacity of the roadways was estimated using the Florida Department of Transportation methodology for roadway segment analysis. This methodology is based on the 2000 Highway Capacity Manual, which is generally accepted as the standard practice for traffic engineering. The methodology uses peak hour traffic volumes to determine LOS for general planning applications. This methodology assesses the capacity of a roadway based on the number of lanes, number of signalized intersections per mile, presences of left and right turn lanes, and other factors.

Applying reductions to account for the roadways not being classified as state routes and not providing exclusive left turn and right turn lanes, the roadway capacity can be calculated for each service level. The volumes are the upper limit for that service level. Based on this methodology and the study roadway characteristics, the two-way, peak hour threshold for LOS B is 512 vehicles, LOS C is 825 vehicles, and LOS D is 880 vehicles. A roadway segment with more than 880 vehicles per hour would operate at LOS F.

Utilizing these thresholds, **Table 4** shows the roadway segment analysis under Existing Conditions.

Table 4: Existing Conditions – Roadway Segment Levels of Service

Roadway	Segment	AM Peak Two-Way Volume	AM LOS	PM Peak Two-Way Volume	PM LOS
Ashland Avenue	South of East 14th Street	620	C	480	B
Elgin Street	West of East 14th Street	224	B	275	B
Kent Avenue	South of East 14th Street	357	B	305	B
Delano Street	West of Kent Avenue	393	B	308	B

As **Table 4** illustrates, all of the study area roadway segments currently operate at acceptable levels of service.

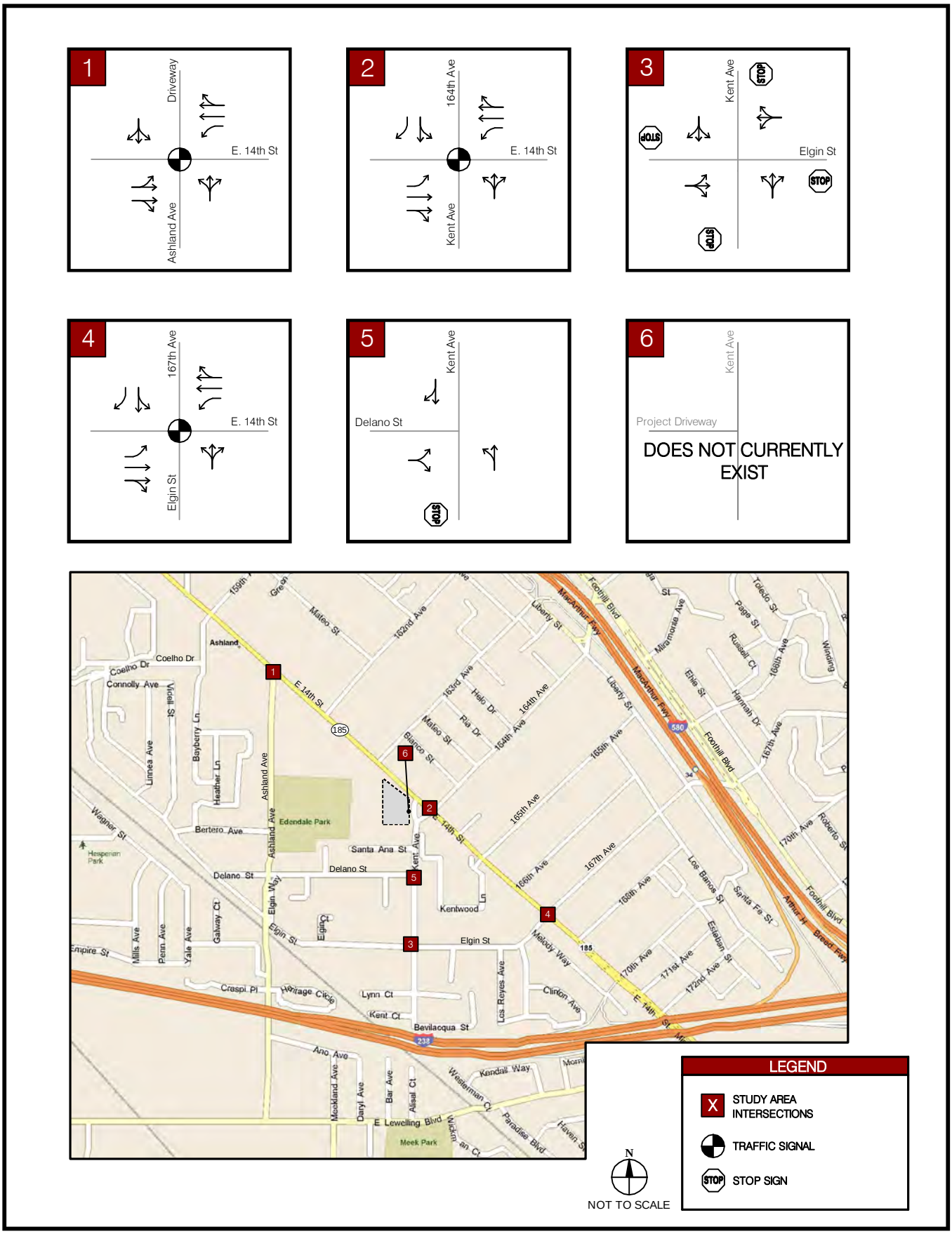


FIGURE 2

EXISTING CONDITIONS

INTERSECTION GEOMETRY AND TRAFFIC CONTROL

Kimley-Horn and Associates, Inc.

© 2011

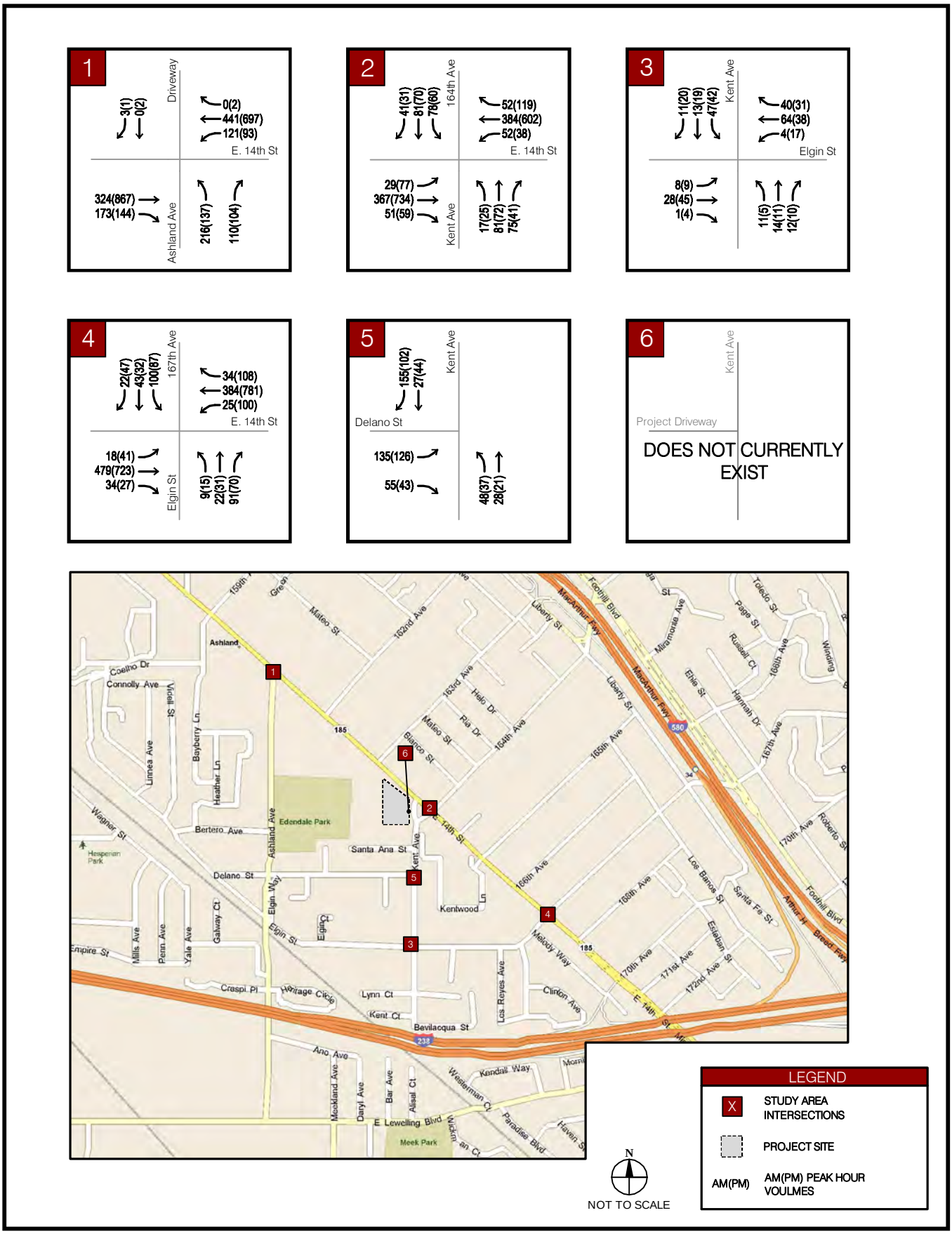


FIGURE 3

EXISTING CONDITIONS

PEAK HOUR TURNING MOVEMENT VOLUMES

Kimley-Horn and Associates, Inc.

© 2011

Transit Network

Two key transit agencies provide public transportation options in the vicinity of the study area – AC Transit operates fixed bus routes and the Bay Area Rapid Transit (BART) provides commuter heavy rail. The Amtrak Capital Corridor provides train service from San Jose to Sacramento and can be accessed at a Hayward station approximately two miles south of the proposed development.

Public transportation routes within the project vicinity are shown in **Figure 4**.

Bus Service

Alameda County transit service is provided by AC Transit, which operates several bus routes that travel with the proposed study area. **Figure 4** shows the existing bus transit routes in the study area, which are also described below.

Route 32 – This bus route runs along 164th Avenue and East 14th Street through the study area. It is a local community route connecting Hayward with the unincorporated communities of Castro Valley, Ashland, and Cherryland and provides access to the Bay Fair BART, Hayward BART, and Castro Valley BART stations. This two-way loop route operates on weekdays and weekends with 60 minute weekday headways per direction from 5 AM to 9 PM.

Route 75 – This bus route runs along Ashland Avenue and Elgin Street adjacent to the study area. It is a local community route connecting Foothill Square in Oakland with the Downtown San Leandro BART and Bay Fair BART stations and Ashland. This two-way loop route operates on weekdays only with 60 minute headways per direction from 5:30 AM to 8:30 PM.

Route 93 – This bus route runs along East 14th Street through the study area. It is a local community route connecting Hayward at the Hayward BART station with the unincorporated communities of Ashland, San Lorenzo, and Cherryland with the Bay Fair BART station. This two-way loop route operates on weekdays and weekends with 60 minute weekday headways per direction from 5 AM to 9 PM.

Route 99 – This bus route runs along East 14th Street through the study area. This multi-city route connects the Bay Fair BART, Hayward BART, South Hayward BART, Union City BART, and Fremont BART stations. The route operates on weekdays and weekends with 30 to 60 minute weekday headways from 5:30 AM to 12:30 AM.

Route 801 – This bus route operates as the night route for Route 99. The route operates on weekdays and weekends with 60 minute weekday headways from 12:30 AM to 5:30 AM.

There are currently several bus stop locations within one block of the proposed development. A bus stop for the westbound East 14th Street routes is located at the intersection of East 14th Street and Kent Avenue adjacent to the proposed development. A stop for the westbound East 14th Street routes is located at the intersection of East 14th Street and 163rd Avenue. A stop for the routes along Kent Avenue north of East 14th Street is located along Kent Avenue north of East 14th Street.

Rail Service

BART provides heavy rail rapid transit service throughout the counties of Contra Costa, Alameda, San Francisco, and San Mateo with stations in most major cities in these counties. Trains generally operate with 10 to 20 minute headways during weekdays and weekends. The Bay Fair BART station is located approximately three-quarters of a mile west of the proposed development south of Bayfair Center at Hesperian Boulevard and Thornally Drive. Approximately 4,900 people access BART on a typical weekday from this station. There are no existing at-grade railroad crossings within the study area as the BART tracks are elevated.

Paratransit

East Bay Paratransit is provided by both AC Transit and BART. The Americans with Disabilities ACT (ADA) requires that all bus and rail companies provide paratransit service to riders whose disabilities prevent them from using regular public transit. The two agencies work cooperatively together to provide ADA service for individuals who are eligible.

Bicycle Facilities

The *Alameda County Bicycle Master Plan for Unincorporated Areas* (March 2007) provides a discussion of bikeways throughout the County and illustrates the bicycle facilities network. As referenced in this plan, cities generally follow state definitions for bikeways, which identify three distinct types of bicycle facilities: bike paths, bike lanes and bike routes. These facilities are defined as follows:

- *Class I Bikeway (Bike Path or Bike Trail)*: Provides completely separated right-of-way designated for the exclusive use of bicycles and pedestrians with crossflows by motorists minimized.

- *Class II Bikeway (Bike Lane)*: Provides a restricted right-of-way designated for the exclusive use or semi-exclusive use of bicycles with through travel by motor vehicles or pedestrians prohibited, but with vehicle parking and crossflows by pedestrians and motorists provided.

- *Class III Bikeway (Bike Route)*: Provides a right-of-way designated by signs or permanent markings and shared with pedestrians or motorists.

Within the study area, 164th Avenue from East 14th Street to Liberty Street and 167th Avenue from East 14th Street to Liberty Street provide Class II bike lanes.

The *Alameda County Bicycle Master Plan for Unincorporated Areas* (March 2007) includes the following proposed improvements to the bicycle network near the study area:

- Bike lanes along Ashland Avenue from East 14th Street to Lewelling Boulevard;
- Bike route along East 14th Street from San Leandro City Limit to south of I-238; and
- Bike route along Elgin Street from East 14th Street to Bay Fair BART Station.

The location of the existing and planned bicycle facilities within the study area is illustrated in **Figure 5**.

Pedestrian Facilities

The *Alameda County Pedestrian Master Plan for Unincorporated Areas* (July 2006) provides a discussion of pedestrian facilities throughout the County. Sidewalks currently exist through much of the study area along the study area roadways typically located at the backside of the curb. There are also several street pedestrian crossings located within the study area.

Signalized Intersections with Pedestrian Crossings – These crossings have marked crosswalks and pedestrian activated signal control. Pedestrian signal heads are provided. Most signalized crossings provide crosswalks on all approaches of the intersection, but several locations do not provide pedestrian crosswalks for one or more approach. The following intersections within the study area provide key signalized pedestrian crossings:

- East 14th Street and 167th Avenue/Elgin Street
- East 14th Street and 165th Avenue
- East 14th Street and 164th Avenue/Kent Avenue – east side crossing only
- East 14th Street and 162nd Avenue – west side crossing only
- East 14th Street and Ashland Avenue – east side crossing only

Unsignalized Intersection with Marked School Crossings – These crossings are standard yellow transverse-style crosswalks indicating a school crossing. Several school crossings are provided within the study area:

- Ashland Avenue south of East 14th Street (mid-block crossing)
- Ashland Avenue and Bertero Avenue
- Ashland Avenue and Delano Street

Unsignalized Intersections with No Marked Crossings – These intersections are legal crossing points but have no marked or signed facilities. There are numerous crossings of this type in the study area.

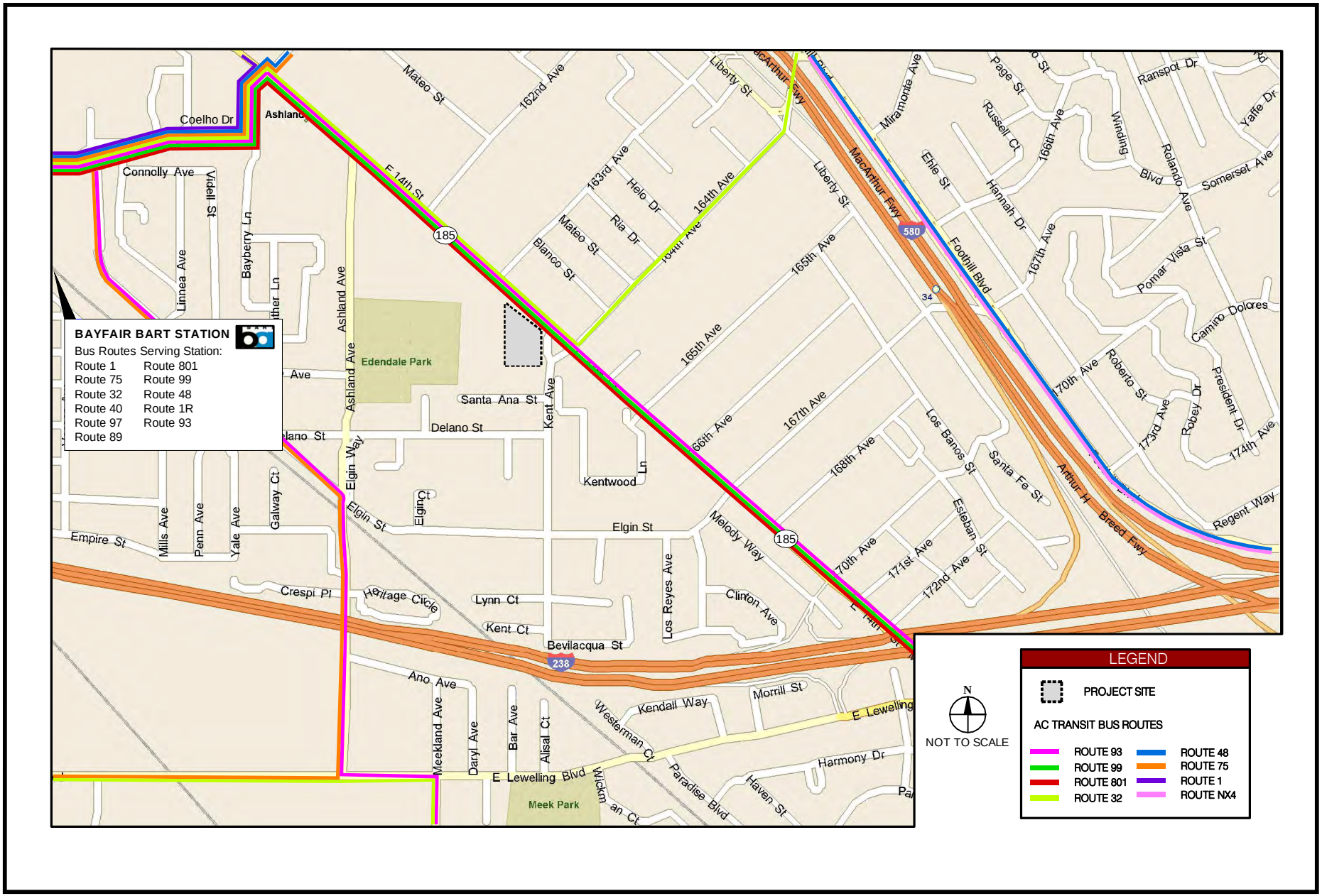
Planned and Proposed Transportation Projects/Studies

The following transportation projects, as identified in County documents and recent planning studies, are proposed within the vicinity of the study area:

- *East 14th Street/Mission Boulevard Streetscape Project* – From the County website, the East 14th Street/Mission Boulevard Streetscape Project is a catalyst public improvement project designed to strengthen the viability of the commercial corridor and enhance the physical connection to the surrounding communities of Ashland and Cherryland. The Project will provide streetscape improvements for the entire length of the East 14th Street/Mission Boulevard corridor (159th Avenue and East 14th Street to Rufus Court and Mission Boulevard), as well as

pedestrian access from East 14th Street to BART along 159th Avenue. The Project is intended to reduce the scale of the street and make it more pedestrian friendly. Improvements include undergrounding of utility wires, new hardscape such as widened sidewalks, planted medians, intersection bulb-outs with trees, new ornamental street lighting, improved bus stops, and street furniture. Construction of the first portions of the project on East 14th Street between 159th Avenue and 162nd Avenue and on 159th Avenue from East 14th Street to the Bay Fair BART station was completed in 2005 and 2007, respectively. Design is underway on the next phase of improvements which includes East 14th Street between 162nd Avenue and 173rd Avenue. Construction of the streetscape elements and utility undergrounding will occur at the same time.

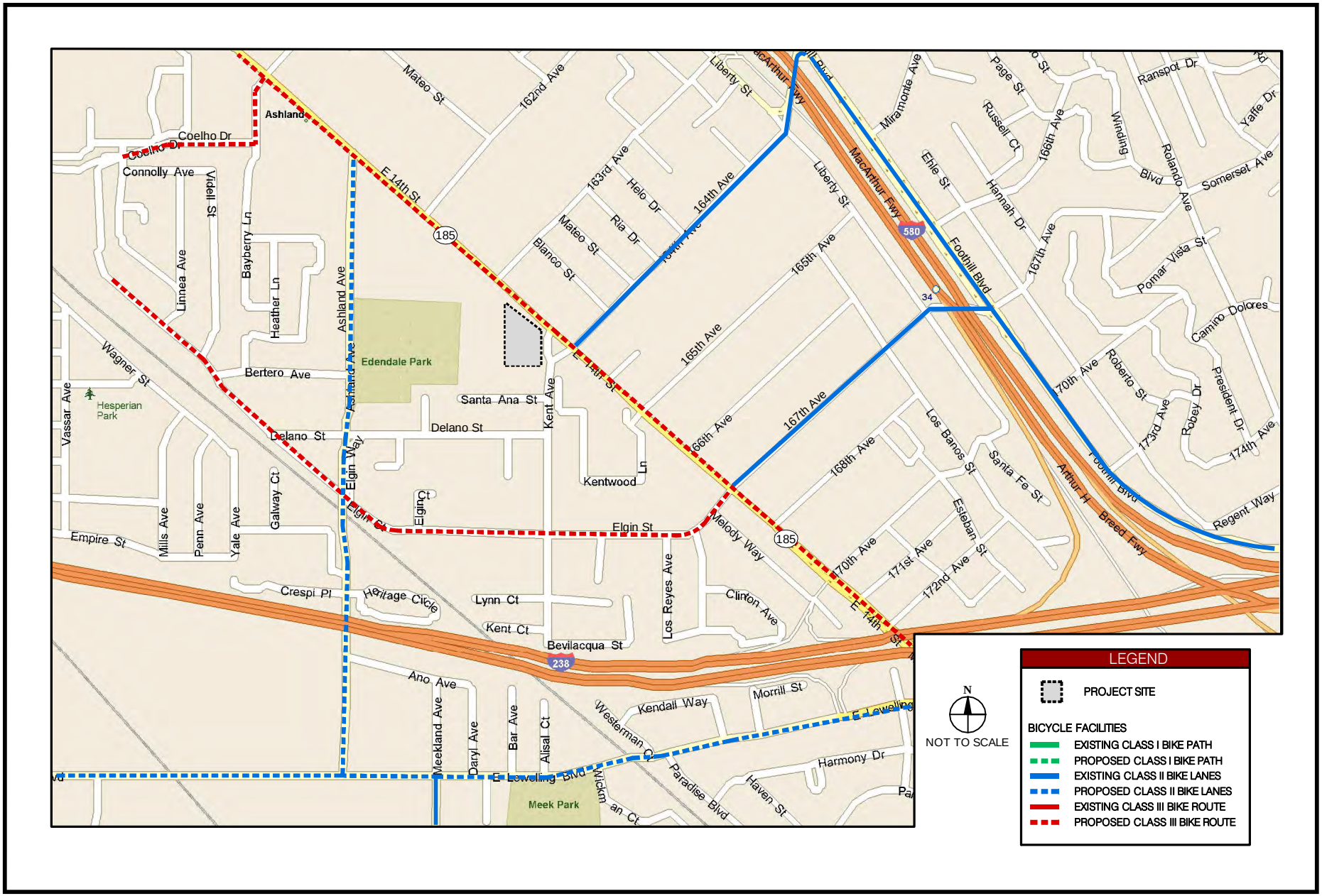
- *BART Silicon Valley* – BART is planning the extension of the existing BART regional heavy rail system to Milpitas, San Jose, and Santa Clara. This would provide an additional transportation option for the area for traveling to and from the South Bay.



Kimley-Horn and Associates, Inc.

© 2011

FIGURE 4
EXISTING CONDITIONS
TRANSIT CIRCULATION



Kimley-Horn and Associates, Inc.

© 2011

FIGURE 5

NON-MOTORIZED TRANSPORTATION FACILITIES

EXISTING PLUS PROJECT CONDITIONS

The existing plus project scenario is an artificial scenario that identifies specific impacts of the proposed plan for comparative purposes. The peak hour traffic volumes for this scenario were developed by adding the net new trips generated by the proposed project to the existing traffic volumes. It will also evaluate potential ramifications to pedestrian, bicycle, and transit circulation. No roadway improvements have been incorporated in this scenario's analysis. Overall, traffic patterns are not anticipated to change significantly since the primary roadway network remains the same.

Project Trip Generation

The Institute of Transportation Engineer's (ITE) *Trip Generation, 8th Edition*, was used to estimate daily and peak-hour trip generation that can be attributed to the development of the proposed project. Trip generation rates are the number of trips generated by a particular land use per an independent variable of dwelling units, employees, or square feet. These rates are developed through many studies conducted throughout the country and, therefore, the rates represent a national average for similar land use types. Trip generation rates can vary depending on where the studies were conducted, and ITE provides a range of rates.

A trip is defined in *Trip Generation* as a single or one-directional vehicle movement with either the origin or destination at the project site. In other words, a trip can be either "to" or "from" the site. In addition, a single customer visit to a site is counted as two trips (i.e., one to and one from the site).

For purposes of determining the worst-case impacts of traffic on the surrounding street network, the trips generated by a proposed development are typically estimated between the hours of 7:00-9:00 AM and 4:00-6:00 PM. While the project itself may generate more traffic occurring some other time of the day such as around noon, the peak of "adjacent street traffic" represents the time period when the uses generally contribute to the greatest amount of congestion, with the PM peak commonly being the greatest congestion period. Although the trips generated by the project may be greater during certain hours of the day, the background volumes on the street network would be relatively low compared to weekday peak traffic volumes. For this reason, this section of the traffic report focused on the weekday AM and PM peak hours.

The site currently includes land uses that generate existing vehicle trips consisting of three single family homes and 13 mobile homes. The trips generated by these uses can be deducted from the trips generated by the proposed development to calculate the net new trips generated. **Table 5** summarizes the trip generation of the existing uses and the proposed development, and calculates the total net new trips generated.

Developments constructed within viable walking distance to existing transit systems typically have lower vehicular trip generation than developments with poor access to transit. While the proposed development is located within one mile of the BART station and adjacent to an AC Transit bus stop, no reductions were taken for transit trips to develop a conservative trip generation estimate.

Table 5: Project Trip Generation

Land Use	ITE Code	Quantity	Units	Daily	AM Peak			PM Peak		
				Total	In	Out	Total	In	Out	Total
Existing Land Uses										
Single-Family Detached Housing	210	3	DU	30	1	1	2	2	1	3
Mobile Home Park	240	13	DU	66	1	5	6	5	3	8
Trip Generation Subtotal – Existing Land Uses				**96**	**2**	**6**	**8**	**7**	**4**	**11**
Proposed Land Uses										
Apartment	220	85	DU	566	9	34	43	34	19	53
Net New Trips Generated by Proposed Development										
Total Project Trip Generation				**470**	**7**	**28**	**35**	**27**	**15**	**42**

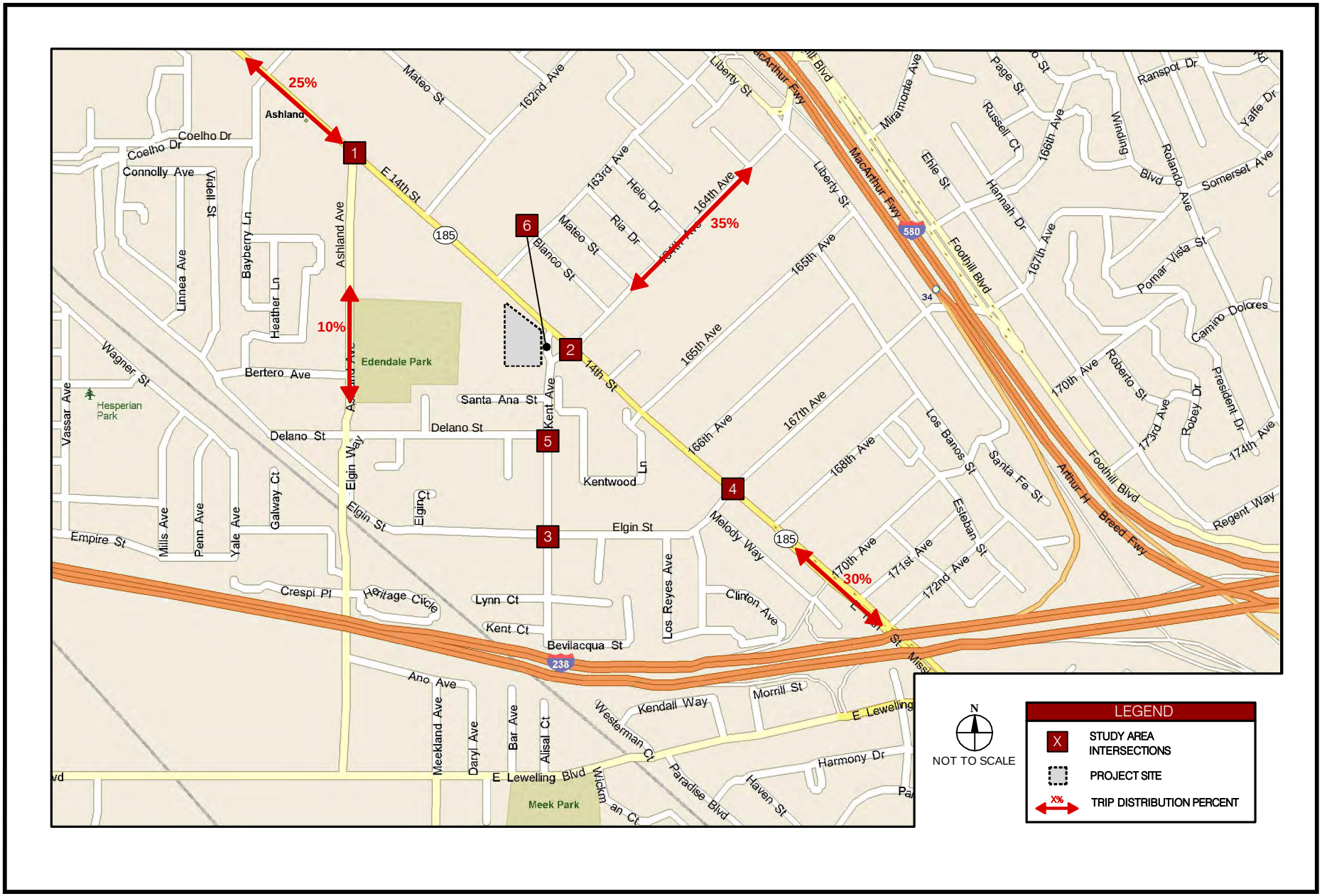
Trip Generation Data from ITE *Trip Generation, 8th Edition*, 2008.

As noted in **Table 5**, the proposed development will generate 470 net new daily trips, 35 net new AM peak hour trips, and 42 net new PM peak hour trips.

Project Trip Distribution and Assignment

The project trip distribution was developed based on existing traffic count information, traffic volumes in the ACTC travel demand model, and the general orientation of similar land uses to the site and population and employment sources to the study area. **Figure 6** presents the traffic distributions assumed for this traffic study.

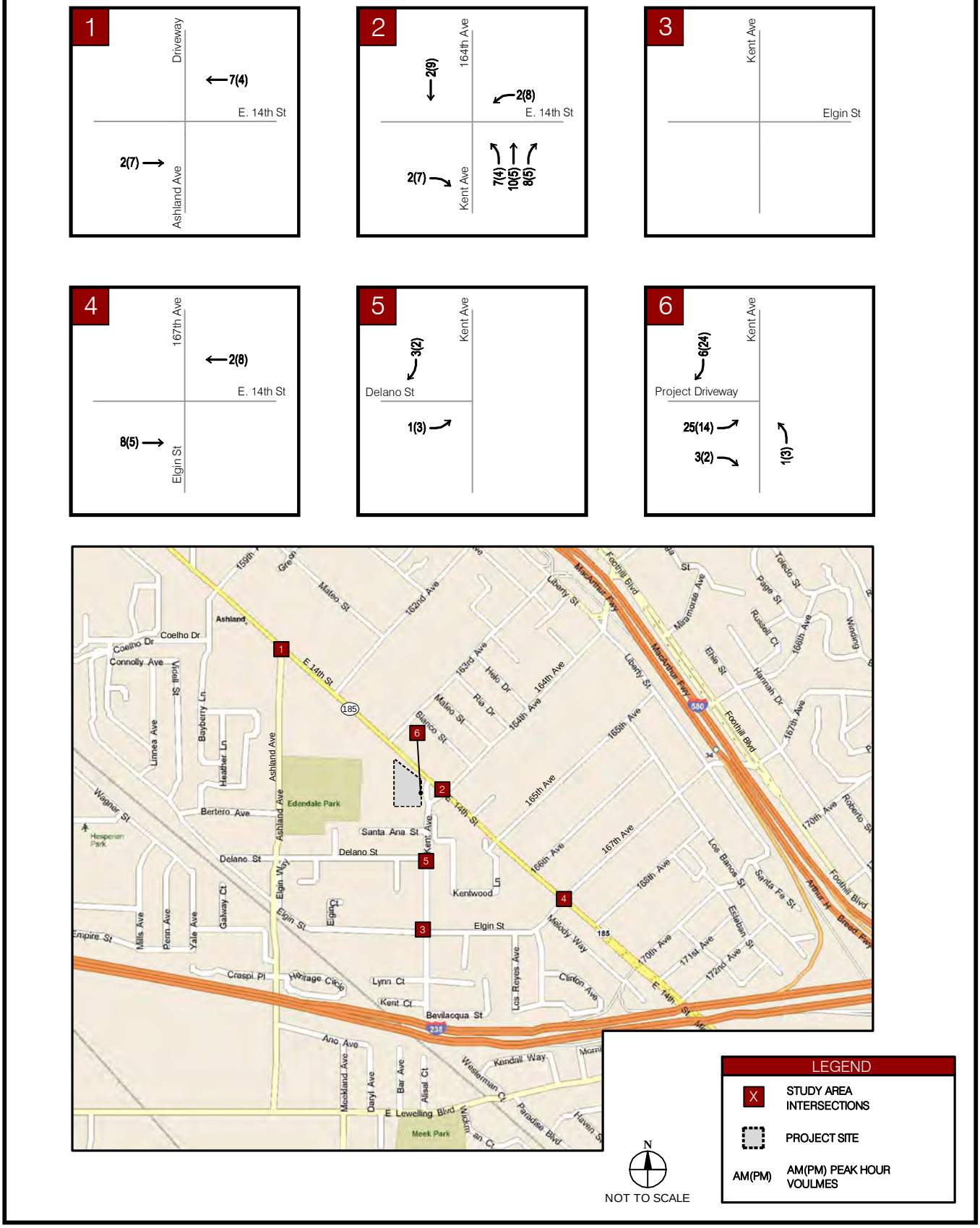
The net new trips generated by the development of the Plan were assigned to the roadway network on the basis of the trip distribution and the likely travel patterns to and from the Plan area. The result of the projects peak hour traffic assignment is illustrated in **Figure 7**.



Kimley-Horn and Associates, Inc.

© 2011

FIGURE 6
PROJECT TRIP DISTRIBUTION



Kimley-Horn and Associates, Inc.

© 2011

FIGURE 7
PROJECT TRAFFIC ASSIGNMENT

Intersection Operations

Each study area intersection was analyzed using the proposed intersection geometry and traffic control illustrated in **Figure 2**. Using the trip generation from **Table 5** and the trip distribution percentages from **Figure 6**, the net new project trips were calculated and added to the existing traffic volumes to develop the existing plus project traffic volumes. **Figure 8** illustrates the Existing plus Project peak hour volumes. Results of the capacity analysis are shown in **Table 6**.

Table 6: Existing Plus Project Conditions – Intersection Levels of Service

Intersection	Traffic Control	Peak Hour	Existing Conditions		Existing Plus Project		LOS Standard[3]	Significant Impact
			Avg. Delay[1]	LOS[2]	Avg. Delay[1]	LOS[2]		
1. East 14th Street and Ashland Avenue	Signal	AM PM	23.4 14.2	C B	23.4 14.2	C B	C/D	No
2. East 14th Street and 164th Avenue/Kent Avenue	Signal	AM PM	21.9 16.3	C B	22.1 17.2	C B	C/D	No
3. Kent Avenue and Elgin Street	AWSC	AM PM	7.9 7.6	A A	7.9 7.6	A A	D	No
4. East 14th Street and 167th Avenue/Elgin Street	Signal	AM PM	18.7 18.0	B B	18.6 17.9	B B	D	No
5. Kent Avenue and Delano Street	TWSC	AM PM	13.1 10.8	B B	13.2 10.9	B B	C/D	No
6. Kent Avenue and Proposed Site Driveway	TWSC	AM PM			10.7 10.4	B B	D	No

Notes:

1. Whole intersection weighted average total delay for signalized and all-way stop-controlled intersections (expressed in seconds per vehicle).
2. LOS calculations performed using the 2000 *Highway Capacity Manual*.
3. LOS standard for Caltrans and Alameda County.
4. Unacceptable operations are indicated in **bold** type.
5. AWSC – All-Way Stop controlled, TWSC – Two-Way Stop controlled

Roadway Segment Operations

Each study area roadway segment was analyzed using the existing plus project traffic volumes illustrated in **Figure 8**. Results of the capacity analysis are shown in **Table 7**.

Table 7: Existing Conditions – Roadway Segment Levels of Service

Roadway	Segment	AM Peak Two-Way Volume	AM LOS	PM Peak Two-Way Volume	PM LOS
Ashland Avenue	South of East 14th Street	620	C	480	B
Elgin Street	West of East 14th Street	224	B	275	B
Kent Avenue	South of East 14th Street	388	B	343	B
Delano Street	West of Kent Avenue	397	B	313	B

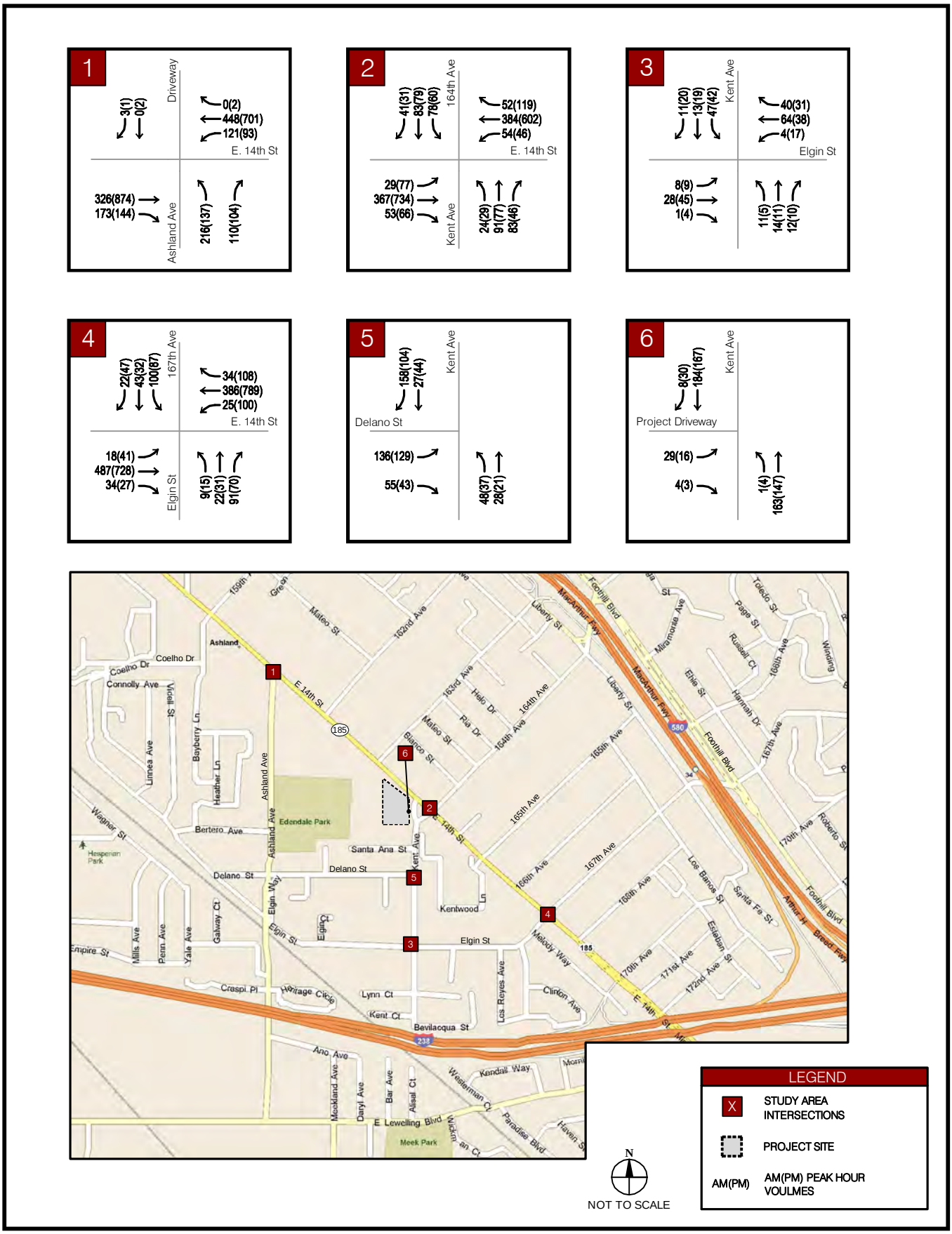


FIGURE 8

EXISTING PLUS PROJECT CONDITIONS

PEAK HOUR TURNING MOVEMENT VOLUMES

Kimley-Horn and Associates, Inc.

© 2011

Existing Plus Project Conditions Impact Analysis

Impact TRAF-1: Traffic generated by the proposed project will increase delay times at study area intersections under Existing plus Project conditions. (Less-than-significant)

As shown in **Table 6**, the average intersection delay times for the study area intersections would remain the same or increase with the addition of vehicle trips generated by the proposed development. However, all study intersections in the Existing plus Project scenario would continue to operate at acceptable levels of service. Therefore, mitigation is not required at the study area intersections.

Mitigation Measure TRAF-1: None required**.**

Significance after Mitigation: Less-than-Significant.

Impact TRAF-2: Traffic generated by the proposed project will increase peak hour volumes at study area roadway segments under Existing plus Project conditions. (Less-than-significant)

As shown in **Table 7**, the two-way peak hour traffic volumes for the study area roadway segments would remain the same or increase with the addition of vehicle trips generated by the proposed development. However, all study roadway segments in the Existing plus Project scenario would continue to operate at acceptable levels of service. Therefore, mitigation is not required at the study area roadway segments.

Mitigation Measure TRAF-2: None required**.**

Significance after Mitigation: Less-than-Significant.

Pedestrian and Bicycle Facilities

Impact TRAF-3: Implementation of the project under Existing plus Project conditions would generate pedestrian and bicycle trips, which would use the existing and planned circulation network in the project area. (Less than significant)

As noted previously, the project would be considered to have a significant impact if it conflicted with adopted policies, plans, or programs supporting alternative transportation (e.g., bicycle racks) or generate pedestrian and bicycle travel demand that would not be accommodated by current pedestrian facilities or bicycle development plans.

The proposed development will potentially generate pedestrian demand. Currently, sidewalks exist along the vast majority of roadways within the area, including East 14th Street and Kent Avenue. The development will also improve pedestrian access at the site by constructing eight-foot sidewalks along Kent Avenue and improving the sidewalk along East 14th Street to match those being constructed as part of the East 14th Street/Mission Boulevard Streetscape Project. This project is not anticipated to interfere

with any of the existing or planned pedestrian facilities. Pedestrian access to the Youth Center is an easy walk of less than one block from the front entrance of the housing development.

There are several existing and planned bicycle facilities in the vicinity of the proposed development. The development will potentially generate bicycle demand. It is expected that the planned bicycle facilities will be able to accommodate the future bicycle demand generated by the proposed development. The project's traffic generation or site access would not create any changes to the existing or planned bicycle facilities. Therefore, the Project would not result in any adverse impacts to bicyclists.

The proposed project would not interfere with existing or planned pedestrian or bicycle facilities. Thus, the project's impact on pedestrian and bicycle is determined to be less than significant.

Mitigation Measure TRAF-3: None Required.

Significance after Mitigation: Less-than-Significant.

Transit Facilities

Impact TRAF-4: Implementation of the project under Existing plus Project conditions would generate transit trips, which would use the existing and planned transit network in the project area. (Less than significant)

It is expected that the proposed development may generate transit ridership. There are currently bus routes along East 14th Street that travel by the proposed development. Bus stops are currently located at the intersections of East 14th Street and Kent Avenue and East 14th Street and 163rd Avenue, all within walking distance of the proposed development. The Bay Fair BART station is also less than one mile to the west of the site, providing an additional transit option for future residents. BART is planning to expand its rail system south to Milpitas, San Jose, and Santa Clara, providing another transit option to and from the South Bay.

The proposed development would not interfere with existing or planned transit service or transit stops, and dispersion of the project-generated riders to the various existing bus routes and train service is expected to result in a minimal effect on transit capacity. Thus, the project's impact on transit facilities is determined to be less than significant.

Mitigation Measure TRAF-3: None required.

Significance after Mitigation: Less than Significant**.**

CUMULATIVE (2035) NO PROJECT CONDITIONS

This scenario evaluates the impacts on traffic and circulation that would occur in 2035 with and without the development of the project. The Cumulative No Project scenario will develop baseline traffic projections to establish background conditions for the evaluation of the project in the future and form the basis for determining and comparing cumulative impacts. Additional development projects are expected to be completed by 2035 and will contribute to a long-term increase in background traffic regardless of the proposed project. These projects include growth in land uses located within the County's urban growth limit such as residential, industrial, business park, and commercial, as well as growth outside of the County. This step in the analysis makes it possible to identify long-term traffic impacts, regardless of the proposed project.

The Alameda County Transportation Commission (ACTC), formerly the Alameda County Congestion Management Agency travel demand forecasting (TDF) model forecasts future traffic volumes within Alameda County. Land use data is included in the model on a traffic analysis zone (TAZ) level of detail. Model trip generation is performed with algorithms that reflect land use, population, employment, income levels, auto ownership, persons per household and other socio-economic factors specific to the area. The model's trip generation is "calibrated" to match local conditions. Using the land use, socioeconomic data, and network (street and intersection) data, the model distributes or allocates trips to/from each TAZ, or land use area. The model then assigns those trips to the roadway network based on least cost (time and/or distance) paths.

The model output is in the form of daily and AM, and PM peak hour link volumes and was utilized to develop future traffic projections. The ACTC model assumes full build out of the General Plan in the 2035 model. Volumes from the model were used to forecast weekday AM and PM peak hour volumes for the Cumulative (2035) No Project scenario. The growth in the link volumes between the base year model (2005) and the forecast year model (2035) was used to develop growth rates for the arterials, collectors, and local streets. The growth rate was applied to the existing link volumes on roadways and at intersections, resulting in Cumulative (2035) No Project forecast volumes.

Many of the key roadways in the study area are detailed in the current ACTC model; however, some local and collector streets within the study area are not accurately represented. Traffic volumes from the base year model and forecast year model were compared for the key study area roadways in the current model. In addition, comparing the base year model output to the recently collected peak hour traffic volumes indicates that significant growth has occurred in the area since the base year model has been calibrated. Since East 14th Street is a major thoroughfare in the study area and the remaining study area roadways are either collectors or local streets, an annual growth rate was calculated and applied for that roadway. Since local streets are not anticipated to experience the same level of growth in traffic as major streets, a lower annual growth was calculated and applied.

The Cumulative No Project traffic volumes are shown in **Figure 9**.

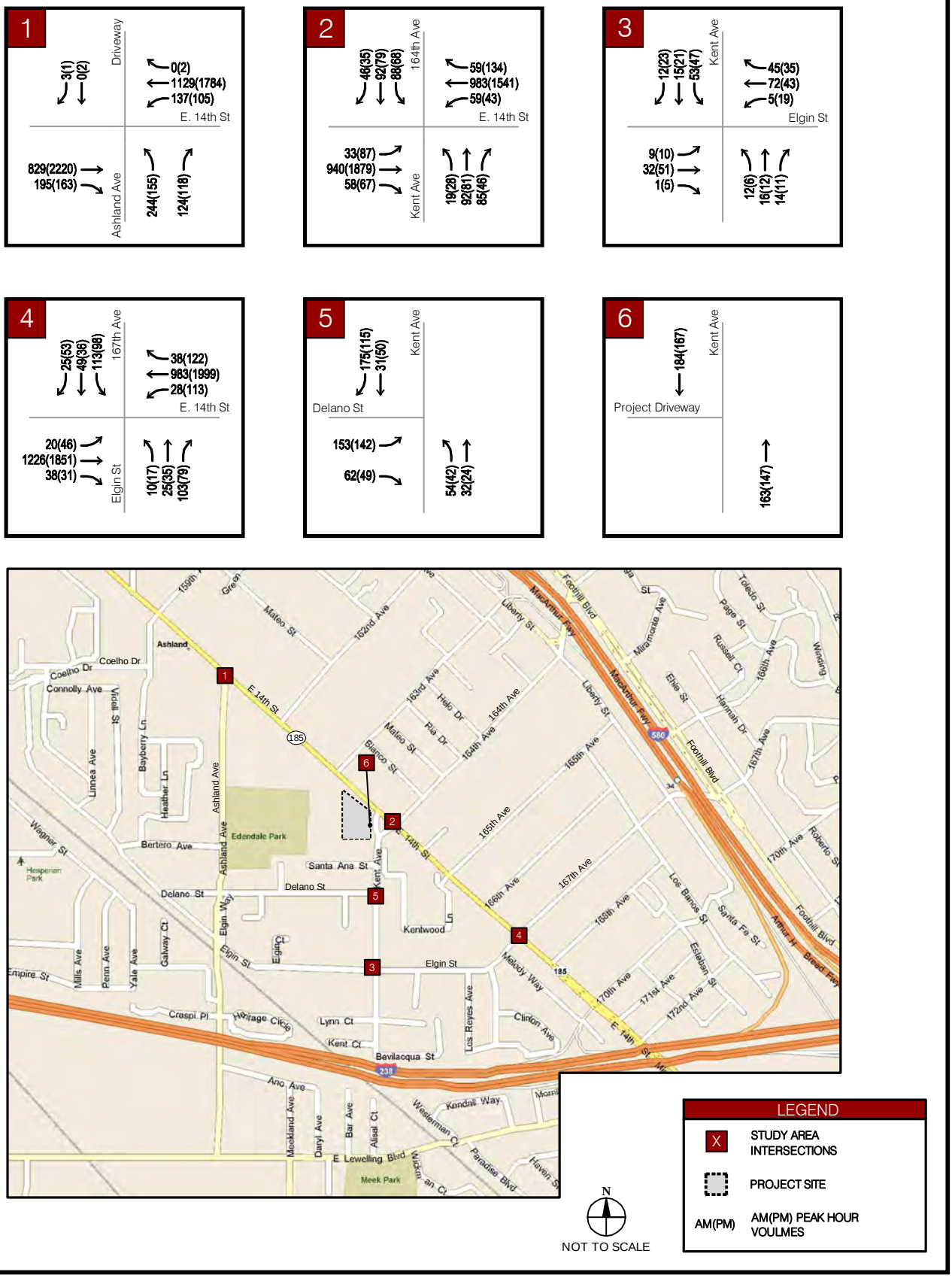


FIGURE 9

CUMULATIVE NO PROJECT CONDITIONS

PEAK HOUR TURNING MOVEMENT VOLUMES

Kimley-Horn and Associates, Inc.

© 2011

Intersection Operations

Each study area intersection was analyzed based on the volumes shown in **Figure 9** and the intersection geometry and traffic control illustrated in **Figure 2**. Results of the traffic operations analysis are summarized in **Table 8**. All study area intersections are projected to operate at acceptable levels of service during the AM and PM peak hours prior to adding trips generated by the proposed project.

Table 8: Cumulative (2035) No Project Conditions – Intersection Levels of Service

Intersection	Traffic Control	Peak Hour	Average Delay[1]	LOS[2]	LOS Standard[3]
1. East 14th Street and Ashland Avenue	Signal	AM PM	24.1 27.0	C C	C/D
2. East 14th Street and 164th Avenue/Kent Avenue	Signal	AM PM	21.3 18.2	C B	C/D
3. Kent Avenue and Elgin Street	AWSC	AM PM	8.1 7.7	A A	D
4. East 14th Street and 167th Avenue/Elgin Street	Signal	AM PM	17.3 28.1	B C	D
5. Kent Avenue and Delano Street	TWSC	AM PM	14.7 11.4	B B	C/D

Notes:
1. Whole intersection weighted average total delay for signalized and all-way stop-controlled intersections (expressed in seconds per vehicle).
2. LOS calculations performed using the 2000 *Highway Capacity Manual*.
3. LOS standard for Caltrans and Alameda County.
4. Unacceptable operations are indicated in **bold** type.
5. AWSC – All-Way Stop controlled, TWSC – Two-Way Stop controlled

Roadway Segment Operations

Each study area roadway segment was analyzed using the existing plus project traffic volumes illustrated in **Figure 9**. Results of the capacity analysis are shown in **Table 9**. As illustrated, all roadways are projected to operate at acceptable levels.

Table 9: Cumulative (2035) No Project Conditions – Roadway Segment Levels of Service

Roadway	Segment	AM Peak Two-Way Volume	AM LOS	PM Peak Two-Way Volume	PM LOS
Ashland Avenue	South of East 14th Street	700	C	543	C
Elgin Street	West of East 14th Street	253	B	311	B
Kent Avenue	South of East 14th Street	405	B	344	B
Delano Street	West of Kent Avenue	444	B	441	B

CUMULATIVE (2035) PLUS PROJECT CONDITIONS

Turning movement volumes for the Cumulative (2035) plus Project scenario were calculated by applying the growth rate (as described in the Cumulative No Project Conditions section) to the existing traffic volumes and adding the net new trips generated by the proposed project. The Cumulative plus Project traffic volumes are shown in **Figure 10**.

Intersection Operations

Each study area intersection was analyzed based on the proposed intersection geometry and traffic control illustrated in **Figure 2** and the peak hour turning movement volumes shown in **Figure 10**. Results of the capacity analysis are shown in **Table 10**.

Table 10: Cumulative (2035) Plus Project Conditions – Intersection Levels of Service

Intersection	Traffic Control	Peak Hour	Cumulative Conditions		Cumulative Plus Project		LOS Standard[3]	Significant Impact
			Avg. Delay[1]	LOS[2]	Avg. Delay[1]	LOS[2]		
1. East 14th Street and Ashland Avenue	Signal	AM PM	24.1 27.0	C C	24.6 30.9	C C	C/D	No
2. East 14th Street and 164th Avenue/Kent Avenue	Signal	AM PM	21.3 18.2	C B	21.6 22.1	C C	C/D	No
3. Kent Avenue and Elgin Street	AWSC	AM PM	8.1 7.7	A A	7.9 7.8	A A	D	No
4. East 14th Street and 167th Avenue/Elgin Street	Signal	AM PM	17.3 28.1	B C	18.0 24.2	B C	D	No
5. Kent Avenue and Delano Street	TWSC	AM PM	14.7 11.4	B B	14.8 12.3	B B	C/D	No
6. Kent Avenue and Proposed Site Driveway	TWSC	AM PM			11.0 10.7	B B	D	No

Notes:

1. Whole intersection weighted average total delay for signalized and all-way stop-controlled intersections (expressed in seconds per vehicle).
2. LOS calculations performed using the 2000 *Highway Capacity Manual*.
3. LOS standard for Caltrans and Alameda County.
4. Unacceptable operations are indicated in **bold** type.
5. AWSC – All-Way Stop controlled, TWSC – Two-Way Stop controlled

Roadway Segment Operations

Each study area roadway segment was analyzed using the existing plus project traffic volumes illustrated in **Figure 10**. Results of the capacity analysis are shown in **Table 11**. As illustrated, all roadways are projected to operate at acceptable levels.

Table 11: Cumulative (2035) Plus Project Conditions – Roadway Segment Levels of Service

Roadway	Segment	AM Peak Two-Way Volume	AM LOS	PM Peak Two-Way Volume	PM LOS
Ashland Avenue	South of East 14th Street	700	C	543	B
Elgin Street	West of East 14th Street	253	B	311	B
Kent Avenue	South of East 14th Street	436	B	382	B
Delano Street	West of Kent Avenue	448	B	353	B

Queuing Summary

As congestion increases it is common for traffic at signals and stop signs to form lines of stopped (or queued) vehicles. Queue lengths were determined for each lane and measure the distance that vehicles will backup in each direction approaching an intersection. A typical vehicle length of 25 feet is used in the queuing analysis. Average queue lengths at the study area intersections for turning movements with dedicated turn lanes at signalized intersections and approaches at unsignalized intersections have been projected. A summary of the queuing results can be seen in **Table 12**. While the queue lengths at several intersections are projected to exceed the length of the turn bay, the project is not adding trips to these movements.

Table 12: Cumulative (2035) Plus Project Conditions – Queuing Summary

Intersection	Turning Movement / Approach	Bay Length	Estimated Queue Length	
			Existing Plus Project	Cumulative Plus Project
East 14th Street and Ashland Avenue	WB Left	160 feet	100 feet	125 feet
East 14th Street and Kent Avenue	EB Left	60 feet	50 feet	75 feet
	WB Left	100 feet	50 feet	50 feet
	SB Right	70 feet	25 feet	25 feet
Kent Avenue and Elgin Street	Northbound	-	<25 feet	<25 feet
	Southbound	-	<25 feet	<25 feet
	Eastbound	-	<25 feet	<25 feet
	Westbound	-	<25 feet	<25 feet
East 14th Avenue and Elgin Street	EB Left	100 feet	25 feet	50 feet
	WB Left	100 feet	100 feet	150 feet
	SB Right	100 feet	25 feet	25 feet
Kent Avenue and Delano Street	Eastbound	-	50 feet	75 feet
Kent Avenue and Proposed Site Driveway	Eastbound	-	<25 feet	<25 feet

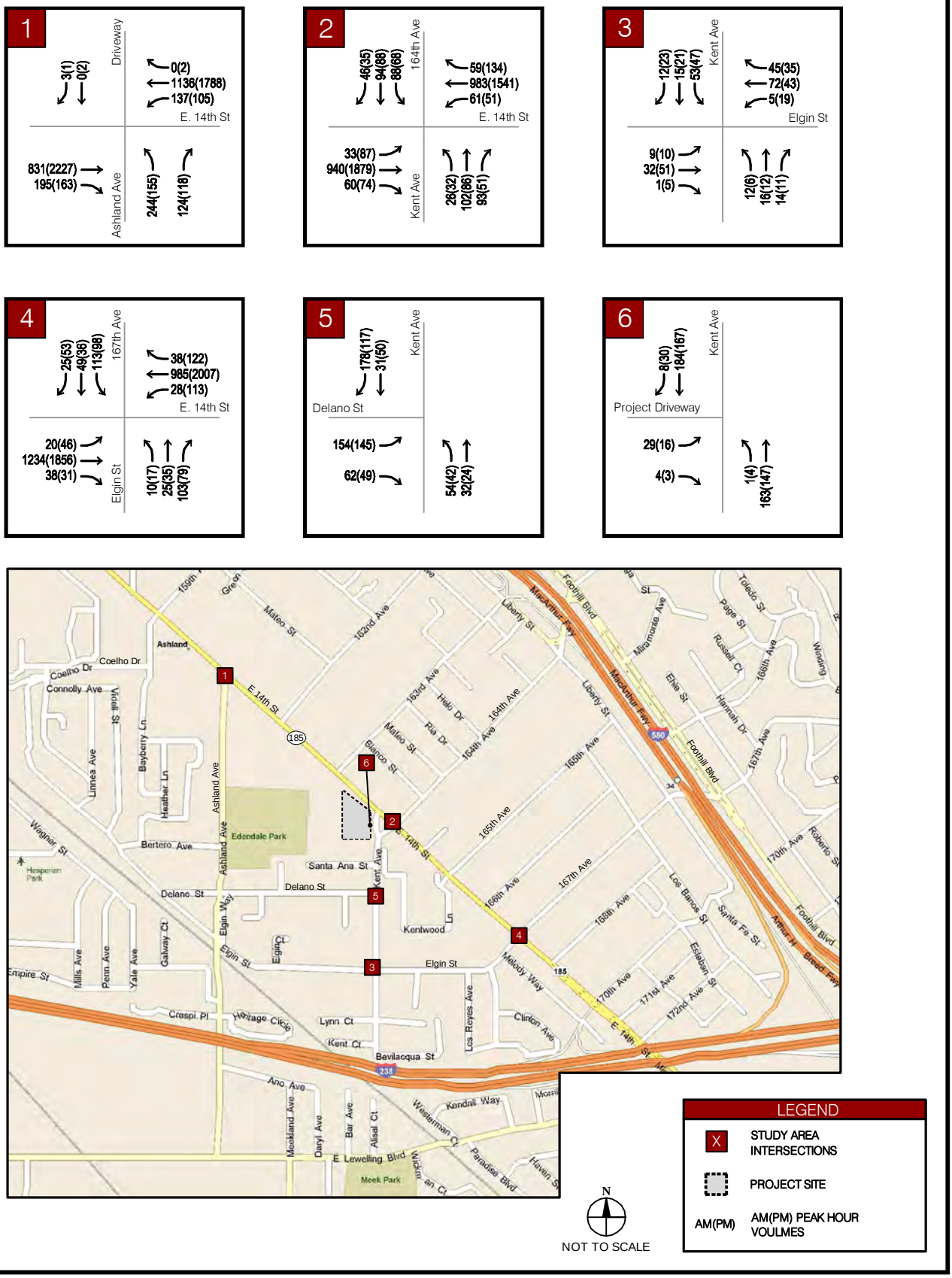


FIGURE 10

CUMULATIVE PLUS PROJECT CONDITIONS

PEAK HOUR TURNING MOVEMENT VOLUMES

Kimley-Horn and Associates, Inc.

© 2011

Cumulative (2035) Plus Project Conditions Impact Analysis

Impact TRAF-5: Traffic generated by the proposed project will increase delay times at study area intersections under Cumulative plus Project conditions. (Less-than-significant)

As shown in **Table 10**, the average intersection delay times for the study area intersections would remain the same or increase with the addition of vehicle trips generated by the proposed development. However, all study intersections in the Cumulative plus Project scenario would continue to operate at acceptable levels of service. Therefore, mitigation is not required at the study area intersections.

It is recommended that the northwest corner radii at the intersection of East 14th Street and Kent Avenue be modified to accommodate the eastbound right turn movement due to the closure of the unsignalized Kent Avenue access. The intersection should be re-designed to accommodate a WB-40 design vehicle.

Mitigation Measure TRAF-5: None required**.**

Significance after Mitigation: Less-than-Significant.

Impact TRAF-6: Traffic generated by the proposed project will increase peak hour volumes at study area roadway segments under Cumulative plus Project conditions. (Less-than-significant)

As shown in **Table 11**, the two-way peak hour traffic volumes for the study area roadway segments would remain the same or increase with the addition of vehicle trips generated by the proposed development. However, all study roadway segments in the Existing plus Project scenario would continue to operate at acceptable levels of service. Therefore, mitigation is not required at the study area roadway segments.

Mitigation Measure TRAF-6: None required**.**

Significance after Mitigation: Less-than-Significant.

Pedestrian and Bicycle Facilities

Impact TRAF-7: Implementation of the project under Cumulative plus Project conditions would generate pedestrian and bicycle trips, which would use the existing and planned circulation network in the project area. (Less than significant)

Refer to Impact TRAF-3 for discussion

Mitigation Measure TRAF-7: None required**.**

Significance after Mitigation: Less-than-Significant.

Transit Facilities

Impact TRAF-8: Implementation of the project under Cumulative plus Project conditions would generate transit trips, which would use the existing and planned transit network in the project area. (Less than significant)

Refer to Impact TRAF-4 for discussion

Mitigation Measure TRAF-8: None required**.**

Significance after Mitigation: Less-than-Significant.

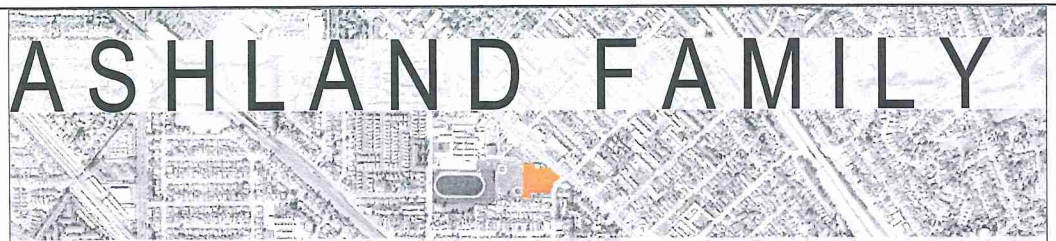
REFERENCES

- Alameda County Public Works Agency, *Alameda County Bicycle Master Plan for Unincorporated Areas*, March 2007.
- Alameda County Public Works Agency, *Alameda County Pedestrian Master Plan for Unincorporated Areas*, July 2006.
- Caltrans. The Guide for the Preparation of Traffic Impact Studies, 2001.
- County of Alameda, *Eden Area General Plan*, 2010
- Institute of Transportation Engineers. *Trip Generation*, 8th Edition, 2009.
- Institute of Transportation Engineers. *Trip Generation Handbook*, 2nd Edition, 2003.
- Institute of Transportation Engineers. *Trip Generation User's Guide*, 7th Edition, 2003.
- Transportation Research Board. *Highway Capacity Manual, 2000*.

Appendix H – Project Description

- **Kava Massih Architects.** *Architectural Drawings & Plans, Ashland Family Housing, San Leandro, CA.* Berkeley, CA : s.n., November 12, 2012.

ASHLAND FAMILY HOUSING



PLANNING RE-SUBMITTAL

NOVEMBER 12, 2012

PROJECT DESCRIPTION

The development will contain 85 units - twenty nine (29) one-bedroom, thirty (30) two-bedroom and twenty five (25) three-bedroom units along with a three-bedroom manager's unit - in a cluster of three-story buildings around a central green space. Fifteen of the one bedroom units will house emancipated foster youth. A mixed-use building on East 14th Street will include apartments above commercial space, offices for property management and resident services, a community room serving the residents, and laundry facilities.

PLANNING INFORMATION

PROJECT ADDRESS(ES):

16309,16325, 16327 & 16331 KENT AVENUE

APNs:

PROJECT SITE
080C-0479-021
080C-0479-022
080C-0479-023-01
080C-0479-023-02

ZONE:
ACBD-TA
(ASHLAND CHERRYLAND BUSINESS DISTRICT, TRANSIT ACCESS)

SITE AREA: 96,550 SF (2.21 ACRES)

TOTAL UNITS:
(85) TOTAL UNITS
38.5 UNITS PER ACRE

VEHICULAR PARKING PROVIDED: (SEE SHEET A1.1 FOR ADD'L INFO.)

(99) TOTAL PARKING STALLS ((3) ACCESSIBLE)

BICYCLE PARKING PROVIDED:

(24) SECURED BICYCLE SPACES

BUILDING AREA/ UNIT SUMMARY:

BUILDING 'A'

LEVEL	GROSS S.F.	1 BR	2 BR	2 BR TOWN	3 BR
L1	14,733	5	4	-	-
L2	13,648	10	5	-	-
L3	13,406	6	4	5	-
L4	2,414	-	-	-	-
SUB TOTAL	44,201	21	13	5	-

BUILDING 'B'

LEVEL	GROSS S.F.	1 BR	2 BR	2 BR TOWN	3 BR
L1	5,760	4	0	-	3
L2	5,527	0	2	-	3
L3	5,527	0	2	-	3
SUB TOTAL	16,814	4	4	-	9

BUILDING 'C'

LEVEL	GROSS S.F.	1 BR	2 BR	2 BR TOWN	3 BR
L1	2,304	2	0	-	1
L2	1,909	0	2	-	0
L3	1,909	0	2	-	0
SUB TOTAL	6,122	2	4	-	1

BUILDING 'D'

LEVEL	GROSS S.F.	1 BR	2 BR	2 BR TOWN	3 BR
L1	8,064	2	0	-	6
L2	7,756	0	2	-	5
L3	7,756	0	2	-	5
SUB TOTAL	23,576	2	4	-	16

BUILDING 'E'

LEVEL	GROSS S.F.	1 BR	2 BR	2 BR TOWN	3 BR
L1	1,030	-	-	-	-
SUB TOTAL	1,030	-	-	-	-

TOTAL	91,743 S.F.	29	25	5	26

(85) TOTAL UNITS

SHEET LIST

A0.1	TITLE SHEET
A0.2	SITE PHOTOS
A0.3	SITE PHOTOS
A0.4	AERIAL SITE PHOTO
CIVIL	
C-1	EXISTING SITE SURVEY
C-2	SITE GRADING PLAN
C-3	SITE UTILITY PLAN
C-4	STORM WATER TREATMENT PLAN
LANDSCAPE	
L1.00	LANDSCAPE PLAN
L2.00	ENLARGED LANDSCAPE PLAN
L3.00	PLANT & PAVING MATERIALS
L4.00	SITE FURNISHING MATERIALS
TRAFFIC	
TR-1	KENT AVE. REALIGNMENT - GEOMETRY
TR-2	KENT AVE. REALIGNMENT - TURN RADIUS
TR-3	KENT AVE. REALIGNMENT - TURN RADIUS
TR-4	KENT AVE. REALIGNMENT - SIGHTLINE DIAGRAM
ARCHITECTURAL	
A1.0	SITE DEMOLITION PLAN
A1.1	ARCHITECTURAL SITE PLAN
A1.1A	CODE COMPLIANCE/ EXITING PLAN
A2.1	OVERALL FLOOR PLANS - LEVEL 1
A2.2	OVERALL FLOOR PLANS - LEVEL 2
A2.3	OVERALL FLOOR PLANS - LEVEL 3
A2.4	OVERALL FLOOR PLANS - LEVEL 4
A3.1A	BUILDING 'A' ELEVATIONS
A3.1B	BUILDING 'A' ELEVATIONS
A3.1C	BUILDING 'A' ELEVATIONS
A3.1D	BUILDING 'A' ELEVATIONS
A3.2A	BUILDING 'B' ELEVATIONS
A3.2B	BUILDING 'B' ELEVATIONS
A3.2C	BUILDING 'B' ELEVATIONS
A3.2D	BUILDING 'B' ELEVATIONS
A3.3A	BUILDING 'C' ELEVATIONS
A3.3B	BUILDING 'C' ELEVATIONS
A3.3C	BUILDING 'C' ELEVATIONS
A3.4A	BUILDING 'D' ELEVATIONS
A3.4B	BUILDING 'D' ELEVATIONS
A3.4C	BUILDING SECTIONS
A3.5	BUILDING SECTIONS
A3.6	BUILDING SECTIONS
A4.1	ENLARGED UNIT PLANS
A4.2	ENLARGED UNIT PLANS
A4.3	ENLARGED UNIT PLANS
A4.4	ENLARGED UNIT PLANS
A4.5	ENLARGED UNIT PLANS
A4.6	ENLARGED UNIT PLANS
A5.1	SITE PERSPECTIVES
A5.2	SITE PERSPECTIVES
A5.3	SITE PERSPECTIVES
A5.4	SITE PERSPECTIVES
A5.5	SITE PERSPECTIVES
A10.1	MATERIAL AND COLOR PALETTE
A10.2	MATERIAL AND COLOR PALETTE

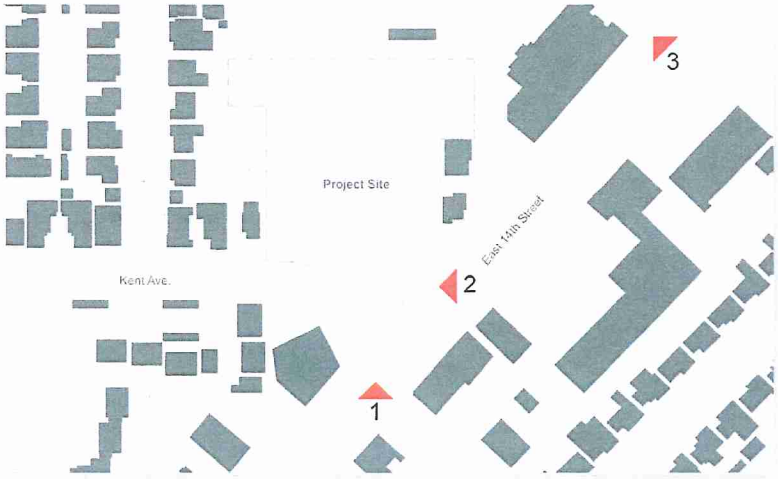
RECEIVED
01/04/13
PLN2012-00169
EXHIBIT "B"

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710

1. E 14TH STREET AT KENT AVE, WEST VIEW

2. E 14TH STREET AT KENT AVE, SOUTH VIEW

3. ASHLAND YOUTH CENTER & SKATEPARK, SOUTHWEST VIEW



N SITE MAP

SITE CONTEXT PHOTOS
NOT TO SCALE
JAN 4, 2013

Ashland Family Housing | Ashland, California
Resources for Community Development

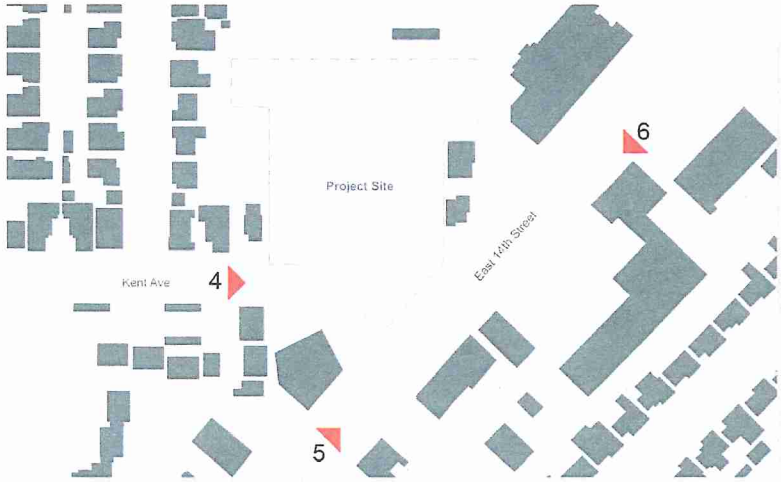
A0.2

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710

4. KENT AVE, NORTH VIEW

5. E 14TH STREET, NORTHWEST VIEW

6. E 14TH STREET, SOUTHEAST VIEW



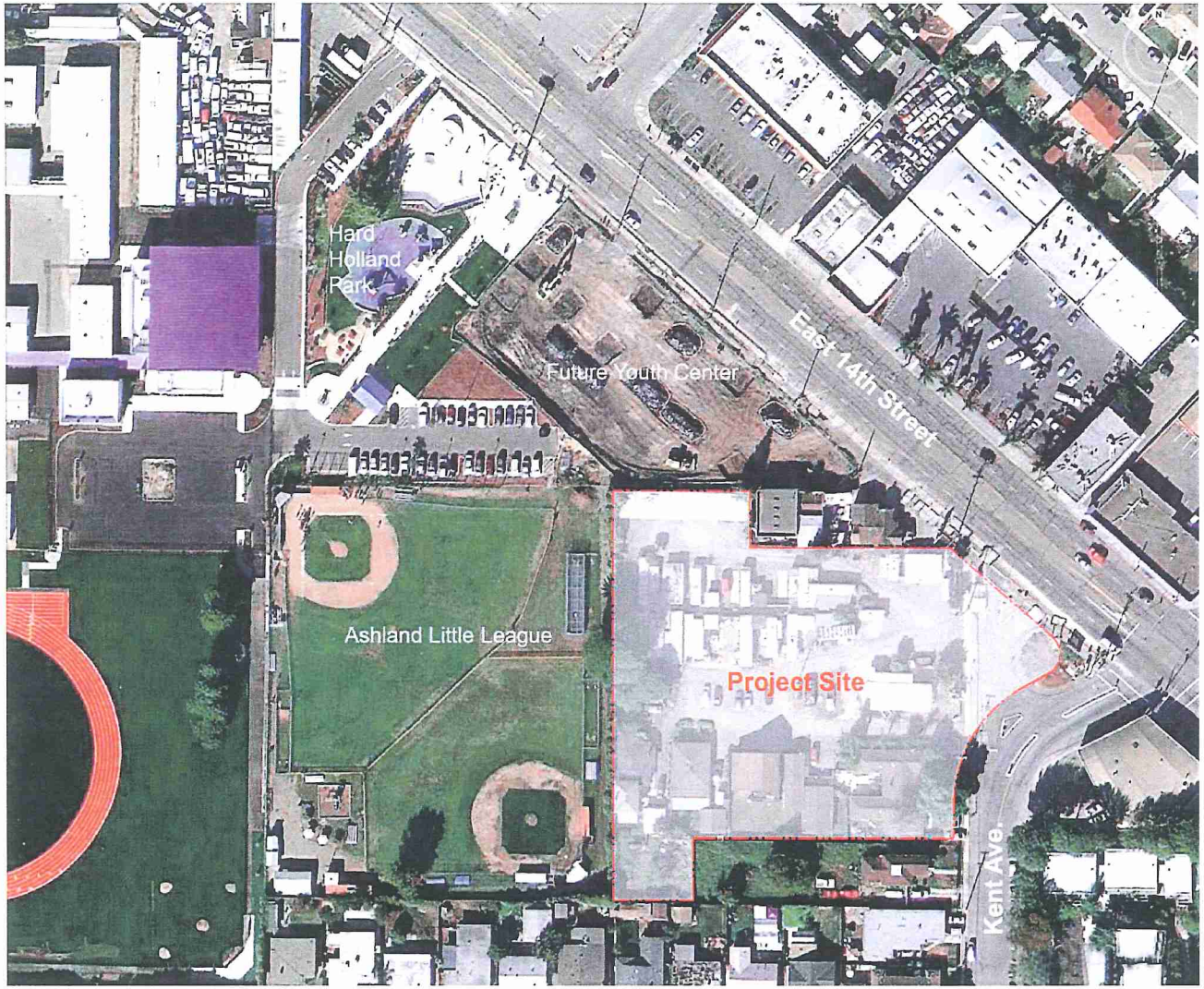
N SITE MAP

SITE CONTEXT PHOTOS
NOT TO SCALE
JAN 4, 2013

Ashland Family Housing | Ashland, California
Resources for Community Development

A0.3

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710



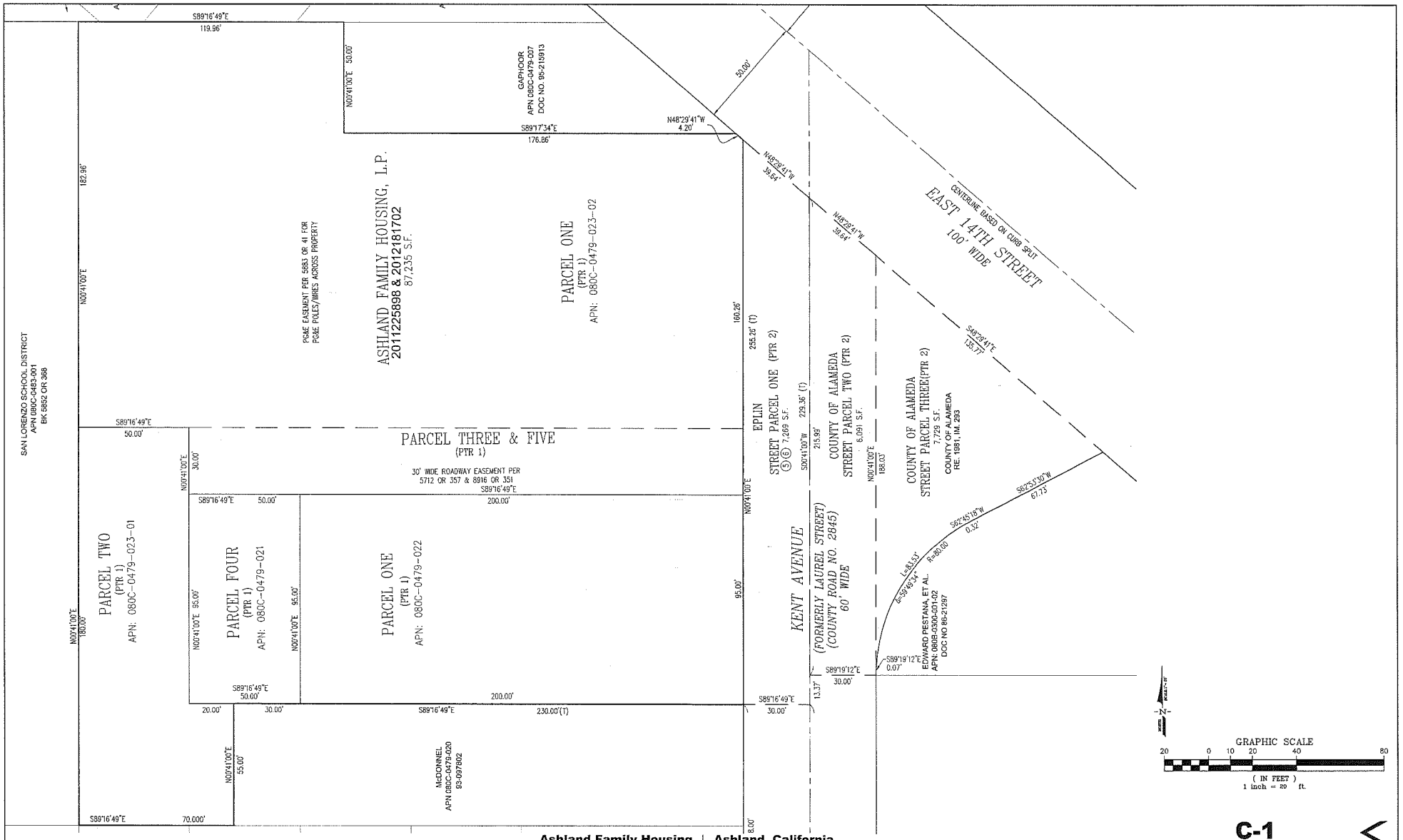
NORTH

AERIAL SITE PHOTO
NOT TO SCALE
JAN 4, 2013

Ashland Family Housing | Ashland, California
Resources for Community Development

A0.4

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710



C-1

Ashland Family Housing | Ashland, California

Resources for Community Development

SITE SURVEY

FILE NO. SURVEY-P10019A10.DWG
SCALE: 1"=20'
DATE: 01-03-2013

Luk and Associates
Civil Engineering–Land Planning–Land Surveying
738 Alfred Nobel Drive
Hercules, CA 94547
Phone (510) 724–3388
Fax (510) 724–3383

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710

Ashland Family Housing | **Ashland, California**

Resources for Community Development

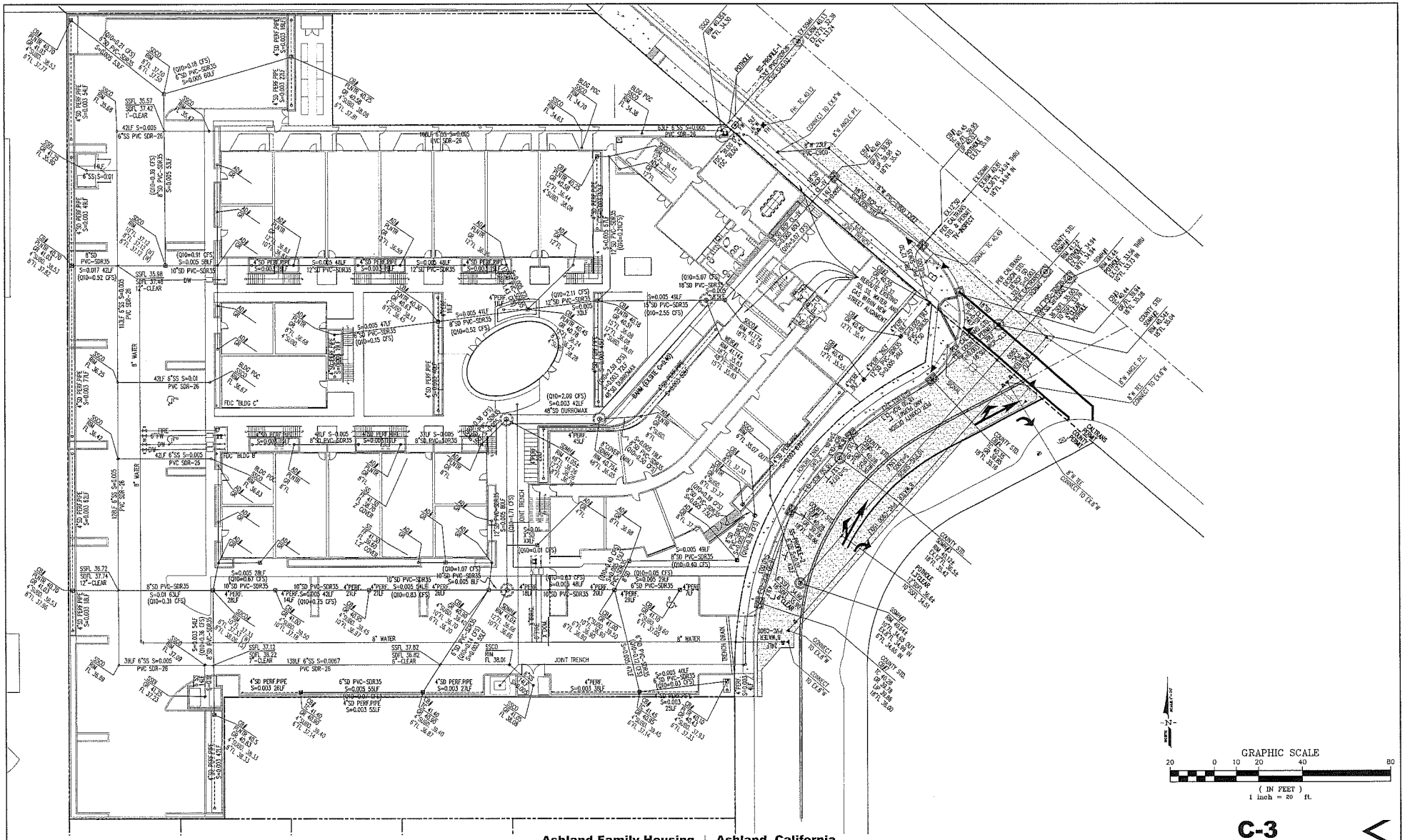
PRELIMINARY GRADING PLAN

C-2

FILE NO.	MASTER-P10019A10
SCALE:	1"=20'
DATE:	01-03-2013

Luk and Associates
Civil Engineering–Land Planning–Land Surveying
738 Alfred Nobel Drive
Hercules, CA 94547
Phone (510) 724–3388
Fax (510) 724–3383

KAVA MASSIH ARCHITECTS
920 Grayson Street I Berkeley, CA 94710



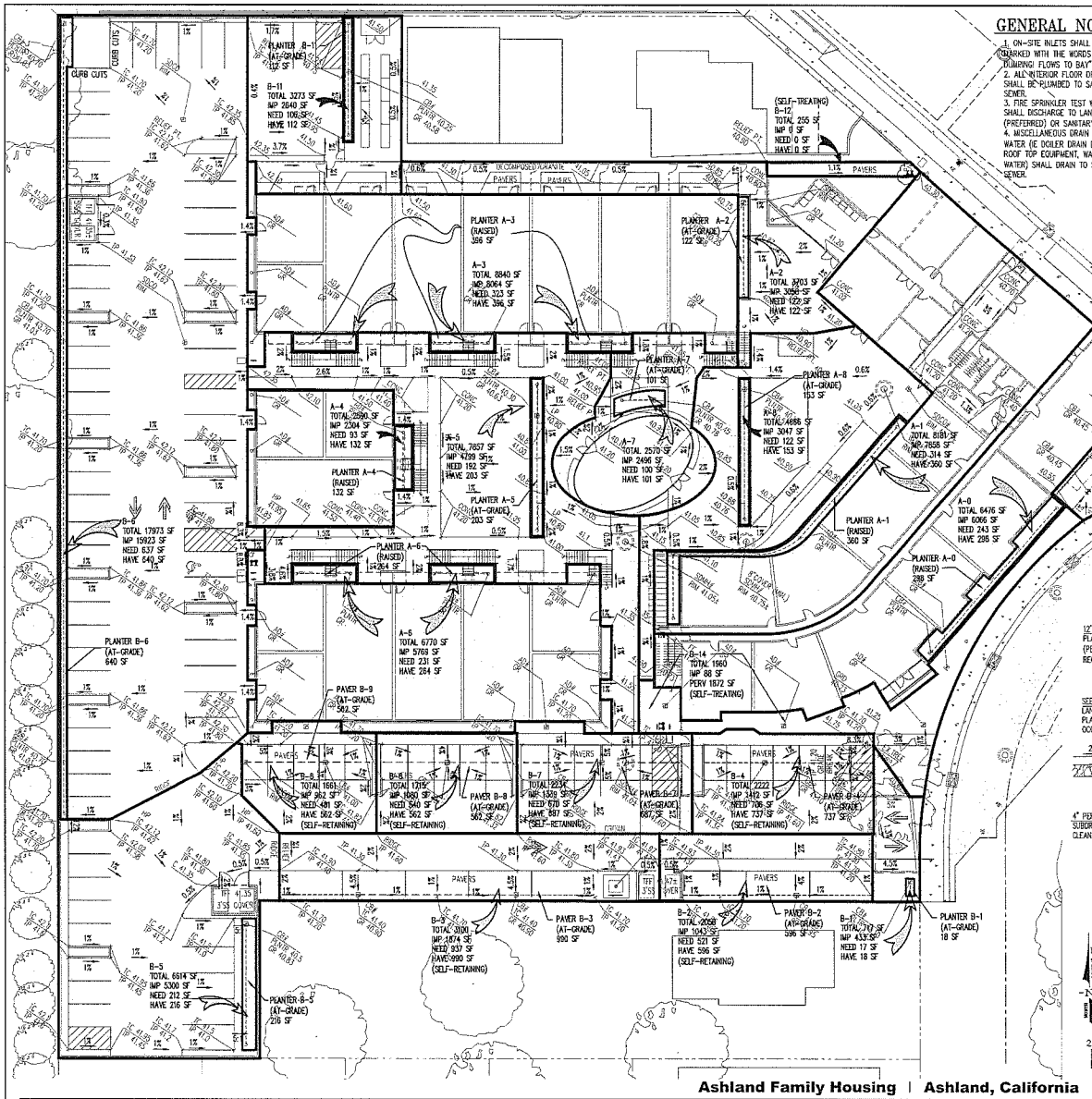
Ashland Family Housing | Ashland, California

Resources for Community Development

PRELIMINARY UTILITY PLAN

C-3

FILE NO. MASTER-P10019A10 SCALE: 1"=20' DATE: 01-03-2013	Luk and Associates Civil Engineering–Land Planning–Land Surveying 738 Alfred Nobel Drive Hercules, CA 94547 Phone (510) 724–3388 Fax (510) 724–3383	KAVA MASSIH ARCHITECTS 920 Grayson Street	Berkeley, CA 94710



GENERAL NOTES

1. ON-SITE INLETS SHALL BE MARKED WITH THE WORDS "NO DUMPING! FLOWS TO BAY".
2. ALL INTERIOR FLOOR DRAINS SHALL BE PLUMBED TO SANITARY SEWER.
3. FIRE SPRINKLER TEST WATER SHALL DISCHARGE TO LANDSCAPING (PREFERRED) OR SANITARY SEWER.
4. MISCELLANEOUS DRAIN OR WASH WATER (IE BOILER DRAIN LINES, ROOF TOP EQUIPMENT, WASH WATER) SHALL DRAIN TO SANITARY SEWER.

SELF-RETAINING/TREATING AREAS

DRAINAGE AREA	TOTAL DRAINAGE AREA S.F.	IMPERVIOUS AREA S.F.	SELF-RET. (SELF-TREAT.) AREA S.F.	RATIO IMPERVIOUS TO PERVIOUS AREA	RATIO LESS THAN 2:1? (< 5%)
B-2	2058	1043	596	1.75:1	YES
B-3	3100	1874	990	1.89:1	YES
B-4	2222	1412	737	1.92:1	YES
B-7	2234	1339	687	1.95:1	YES
B-8	1715	1080	562	1.92:1	YES
B-9	1661	962	562	1.71:1	YES
B-12	255	0	(255)	(0:1)	(YES)
B-13	1046	0	1046	0:1	YES
B-14	1960	(88)	(1872)	(0.05:1)	(YES)

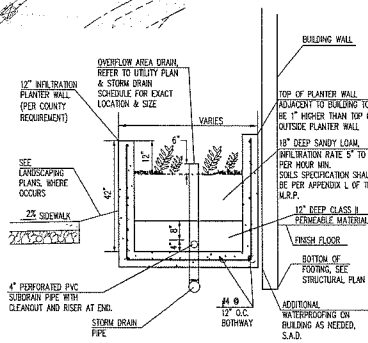
HYDRO-MOD NOTES:

1. MEAN ANNUAL PRECIPITATION = 22.0 INCHES (PER ACFCWCD FIGURE 9)
   TIME OF CONCENTRATION = 5 MINUTES
   Q10-YEAR INTENSITY (Tc=5MIN)= 3.04 IN/HR
2. TOTAL SITE AREA = 96,269 SQUARE FEET OR 2.21 ACRES
3. EXISTING CONDITIONS:
   PERVIOUS AREA = 45,075 SQUARE FEET
   IMPERVIOUS AREA = 51,194 SQUARE FEET
   RUNOFF COEFFICIENT = 0.62
4. PROPOSED CONDITIONS:
   PERVIOUS AREA = 19,872 SQUARE FEET
   IMPERVIOUS AREA = 72,008 SQUARE FEET
   PERVIOUS PAVER AREA = 4,389 SQUARE FEET
   RUNOFF COEFFICIENT = 0.75
5. HYDROMODIFICATION DESIGN BASED ON BAY AREA HYDROGRAPH MODEL (BAHM) PROGRAM. RESULTANT STORM WATER RETENTION SYSTEM BASE ON ABOVE VALUES AND SITE DESIGN CONTRAINTS RESULT THE RETENTION BASIN PIPE SHOWN ON THE UTILITY PLANS.

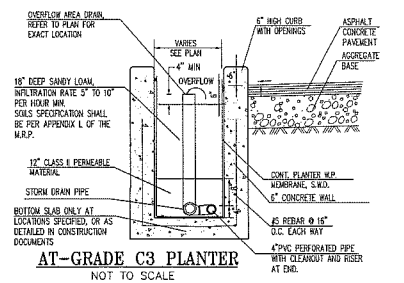
C.3 CALCULATION TABLE

SIZING FACTOR (SI) [PLANTER]=0.04 OF IMPERVIOUS AREA PER ALAMEDA COUNTY WIDE CLEAN WATER PROGRAM PUBLICATION: "C.3 STORMWATER TREATMENT GUIDANCE" OCTOBER 19, 2010 VERSION 2.1

DRAINAGE AREA#	TOTAL AREA S.F.	IMPERVIOUS AREA S.F.	Sf	MIN. IMP S.F.	DESIGN IMP S.F.	TREATMENT METHOD
A-0	6476	6066	0.04	243	298	PLANTER #A-0
A-1	8181	7858	0.04	314	360	PLANTER #A-1
A-2	3703	3056	0.04	122	122	PLANTER #A-2
A-3	8840	8064	0.04	323	396	PLANTER #A-3
A-4	2590	2304	0.04	93	154	PLANTER #A-4
A-5	7857	4799	0.04	192	203	PLANTER #A-5
A-6	6770	5769	0.04	231	264	PLANTER #A-6
A-7	2570	2496	0.04	100	101	PLANTER #A-7
A-8	4666	3047	0.04	122	153	PLANTER #A-8
A-9	1366	811	0.04	33	35	PLANTER #A-9
A-10	2933	1974	0.04	79	80	PLANTER #A-10
B-1	717	433	0.04	17	18	PLANTER #B-1
B-2	1671	1466	0.04	59	61	PLANTER #B-2
B-5	6614	5300	0.04	212	216	PLANTER #B-5
B-6	17973	15923	0.04	637	640	PLANTER #B-6
B-11	3273	2640	0.04	106	112	PLANTER #B-11

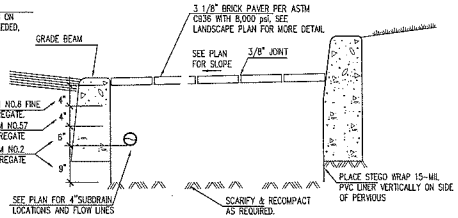


RAISED C3 PLANTER
NOT TO SCALE



AT-GRADE C3 PLANTER
NOT TO SCALE

NOTE:
1. WHERE PAVER IS ABUTTING HARDSCAPE (CONCRETE PAVEMENT OR ASPHALT PAVEMENT), PLACE STEGO WRAP 15-MIL PVC LINER VERTICALLY ON SIDE OF PERVIOUS AND BASE MATERIAL AND EXTEND LINER DOWN TO AT LEAST 2" BELOW GRAVEL TO PREVENT HARD SURFACE PAVEMENT FAILURE.



SELF-RETAINING PAVER
NOT TO SCALE

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

C-4

Ashland Family Housing | Ashland, California

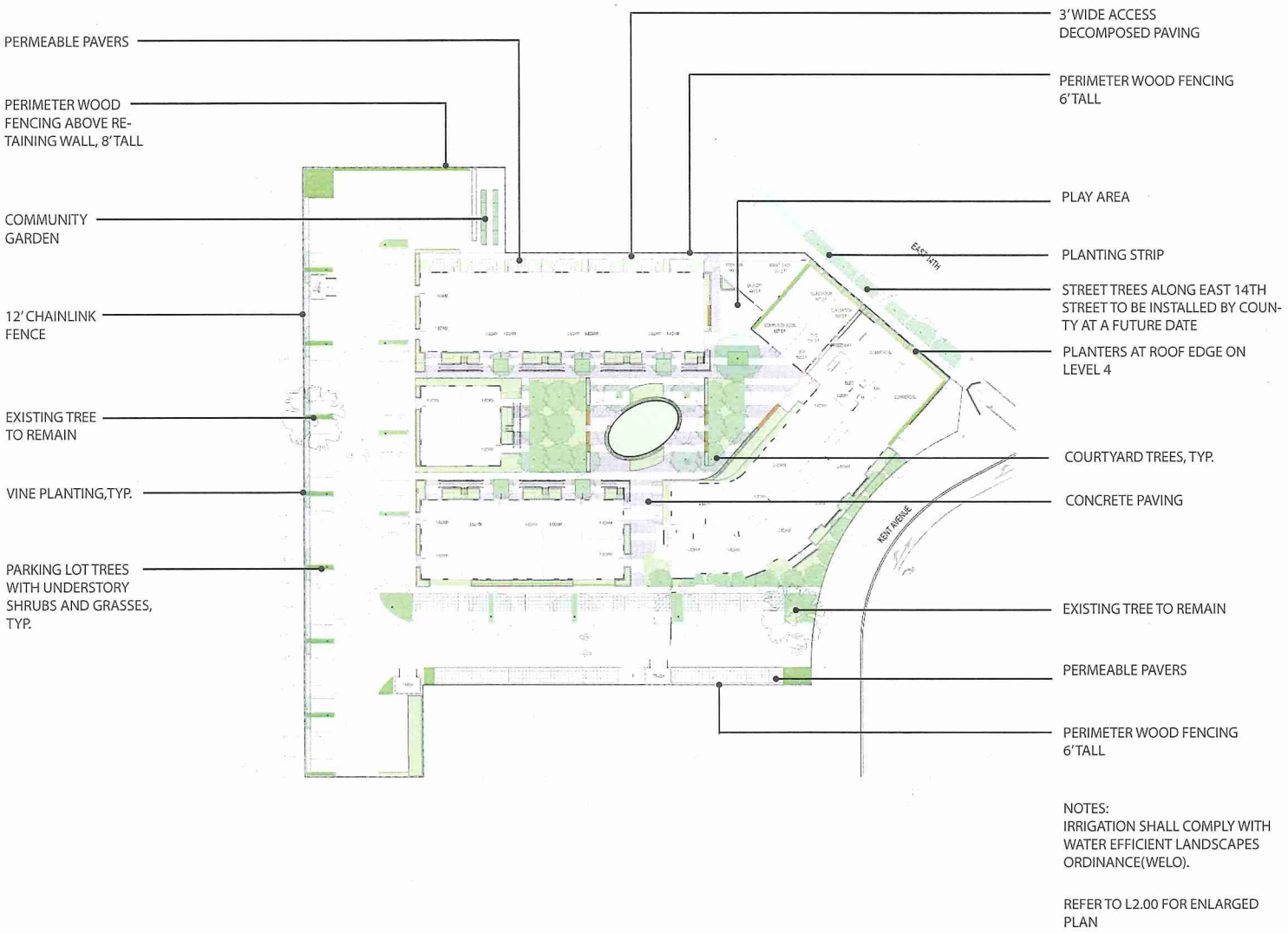
Resources for Community Development

PRELIMINARY STORMWATER TREATMENT PLAN

FILE NO. C3-P-10019A10.DWG
SCALE: 1"=20'
DATE: 01-03-2013

Luk and Associates
Civil Engineering-Land Planning-Land Surveying
735 Alfred Nobel Drive
Hercules, CA 94547
Phone (510) 724-3388
Fax (510) 724-3383

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710



NOTES:
IRRIGATION SHALL COMPLY WITH WATER EFFICIENT LANDSCAPES ORDINANCE(WELO).

REFER TO L2.00 FOR ENLARGED PLAN

LANDSCAPE PLAN - LEVEL 1
1/64" = 1' - 0"
JANUARY 4, 2013

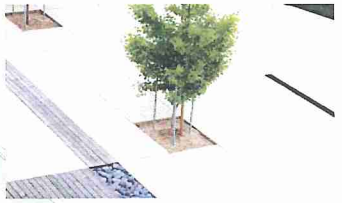
Ashland Family Housing | Ashland, California
Resources for Community Development

CLIFF LOWE ASSOCIATES
1175 FOLSOM STREET
SAN FRANCISCO, CA.94103
415.431.0394
415.431.0396 FAX

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710

L1.00

COMMUNITY GARDEN



PAVING MATERIAL

PLANTER WITH GRASSES ON LEVEL 4

BOSQUE OF TREES

BENCH, TYP.

GRAVEL WITH GRASSES

GREENROOF

ENLARGED LANDSCAPE PLAN - LEVEL 1

1/32"= 1'- 0"

JANUARY 4, 2013

Ashland Family Housing | Ashland, California

Resources for Community Development

CLIFF LOWE ASSOCIATES
1175 FOLSOM STREET
SAN FRANCISCO, CA.94103
415.431.0394
415.431.0396 FAX

L 2.00

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

LOMANDRA LATIFOLIA 'BREEZE'

ASPARAGUS MEYERII

POLYSTICHUM MUNITUM

PHORMIUM 'JACK SPRATT'

JUNCUS PATENS
INFILTRATION PLANTER

ACHILLEA MILLIFOLIUM
INFILTRATION PLANTER

DIANELLA 'CASSA BLUE'

AGAVE ATTENUATA

NO MOW FESCUE LAWN

MAGNOLIA STELLATA
SMALL FLOWERING TREE IN COURTYARD

FRAXINUS LATIFOLIA
LARGE SPECIMEN TREE IN COURTYARD

PLATANUS ACERFOLIA
STREET TREE ON EAST 14TH STREET

GLEDITSIA TRIACANTHOS 'STREET KEEPER'
COURTYARD TREE

JACARANDA MIMOSIFOLIA
PARKING LOT TREE

PLANT MATERIALS

JANUARY 4, 2013

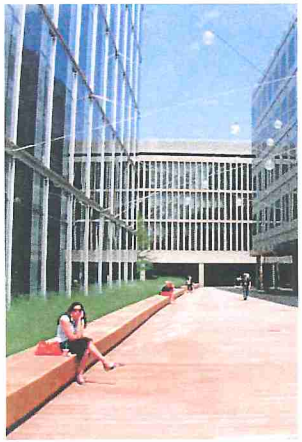
Ashland Family Housing | Ashland, California

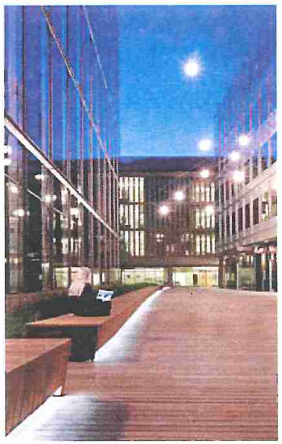
Resources for Community Development

L3.00

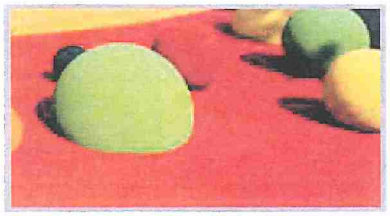
CLIFF LOWE ASSOCIATES
1175 FOLSOM STREET
SAN FRANCISCO, CA.94103
415.431.0394
415.431.0396 FAX

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710

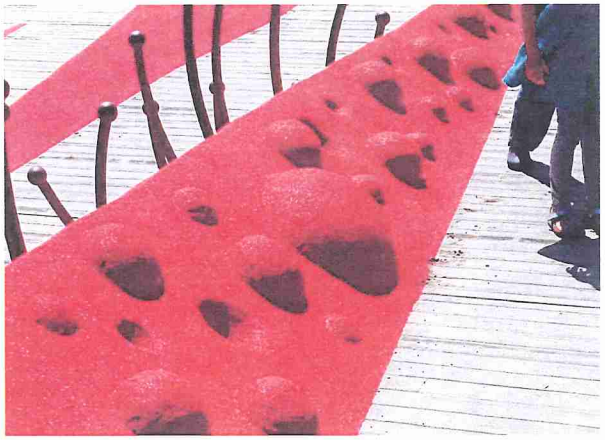




SEATING AREA WITH LIGHTING



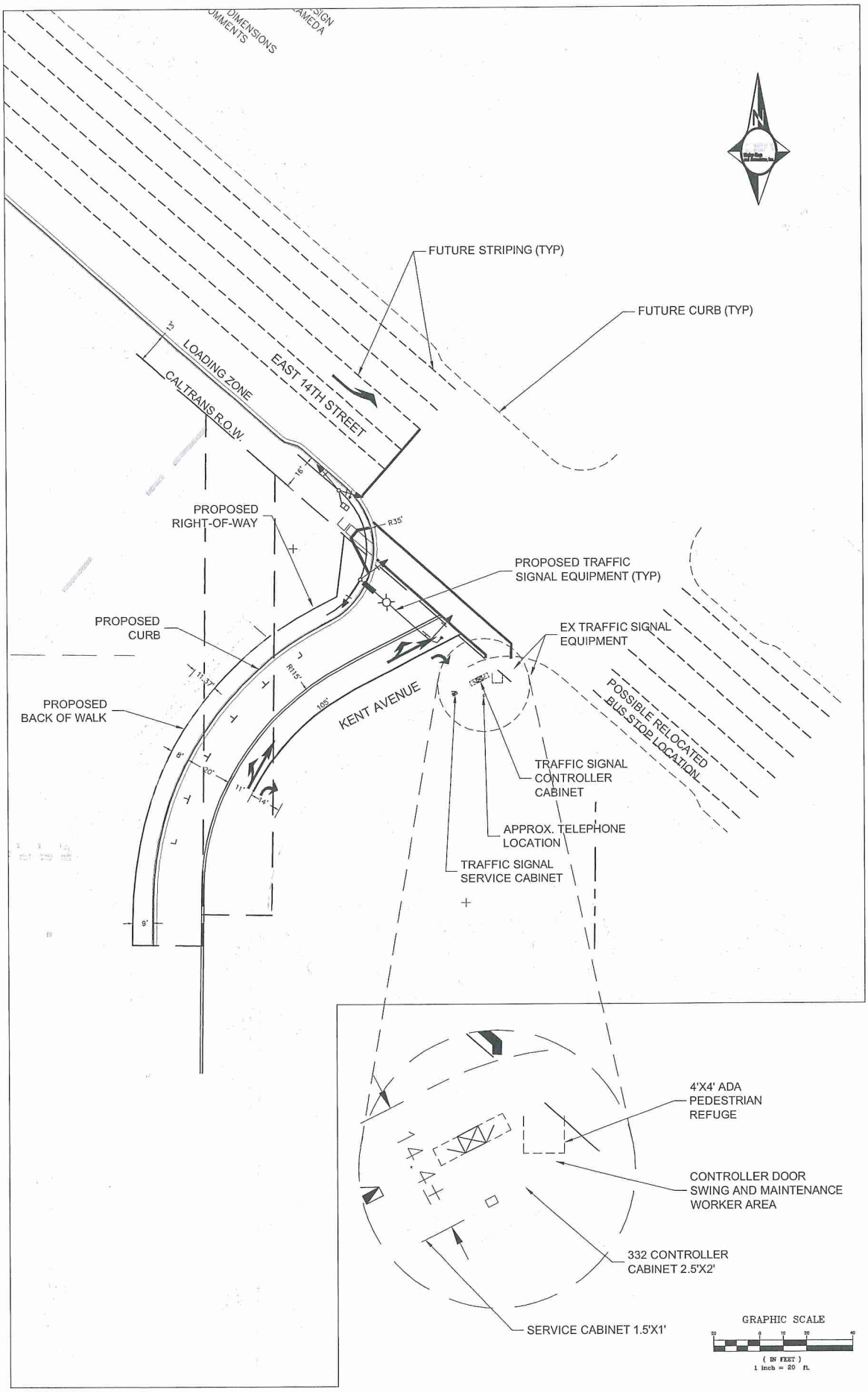
CHILDREN'S PLAY AREA
AGES 2-5



WOOD FENCE

CLIFF LOWE ASSOCIATES
1175 FOLSOM STREET
SAN FRANCISCO, CA.94103
415.431.0394
415.431.0396 FAX

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710



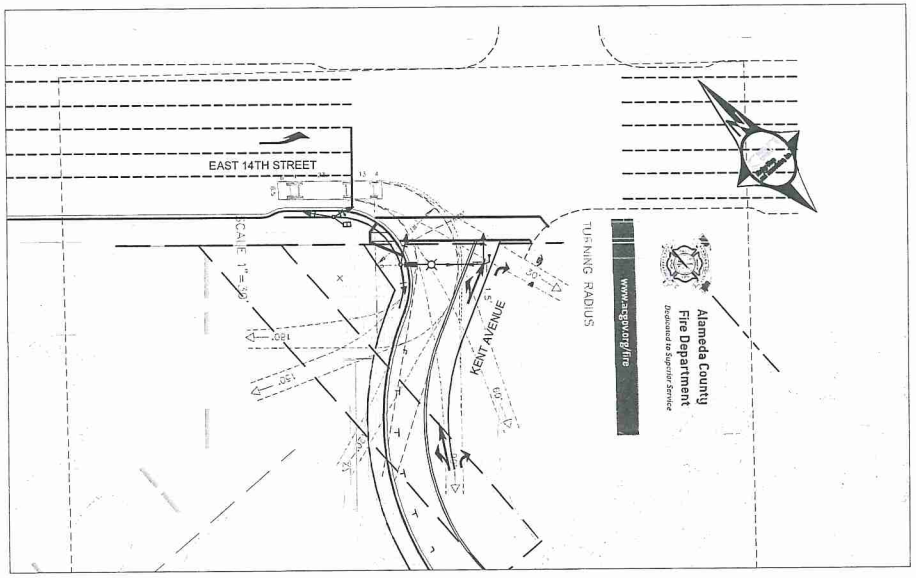
ASHLAND FAMILY HOUSING
PROPOSED GEOMETRY EXHIBIT

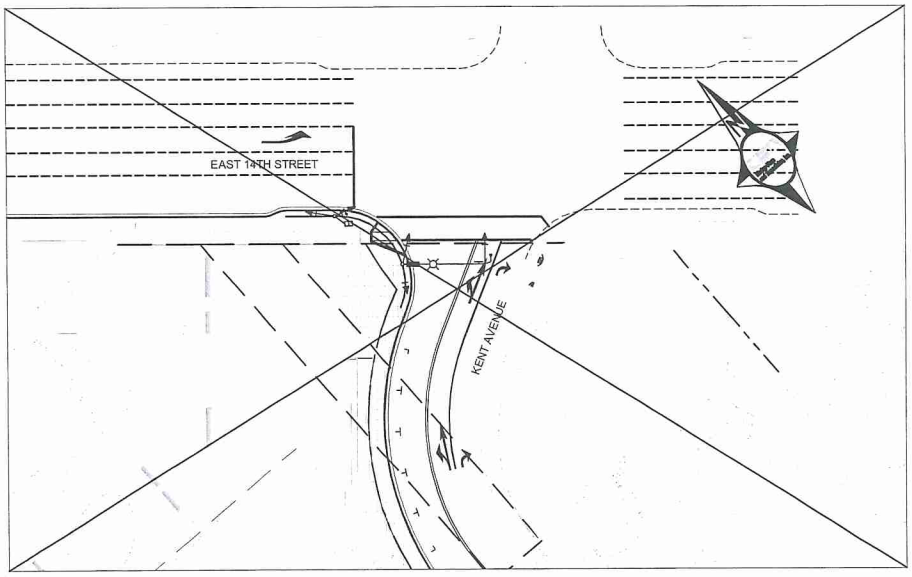
KENT AVENUE/E. 14TH STREET/164TH AVENUE

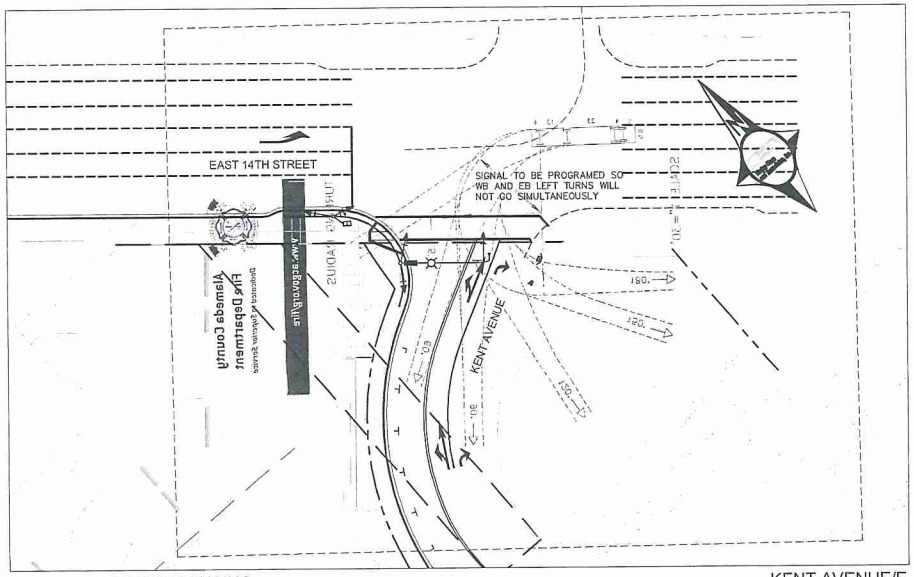
TR-1

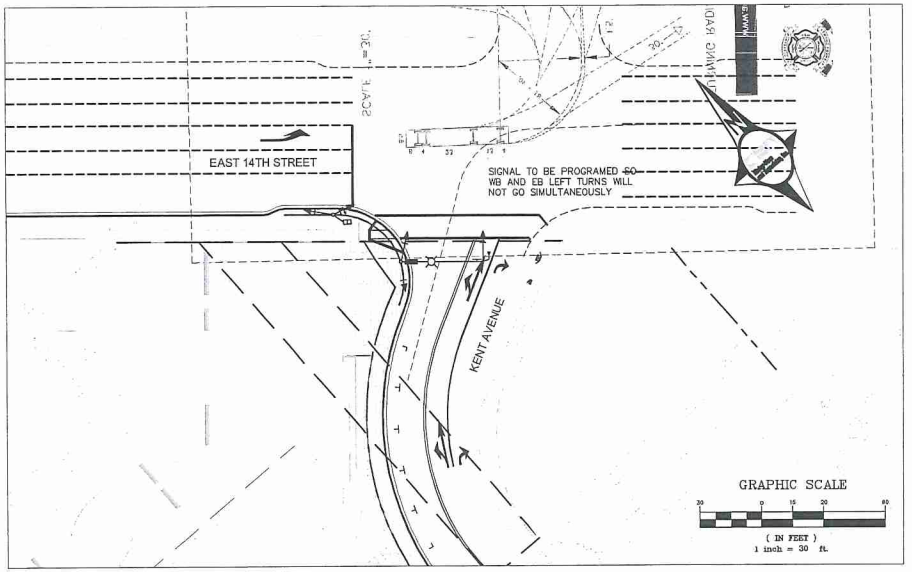
JANUARY 4, 2013

Kimley-Horn and Associates, Inc.







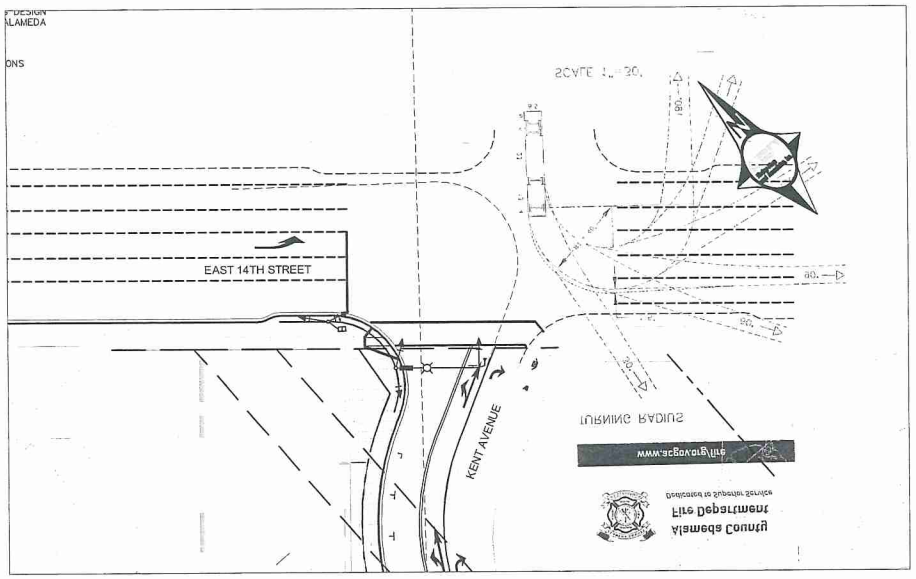


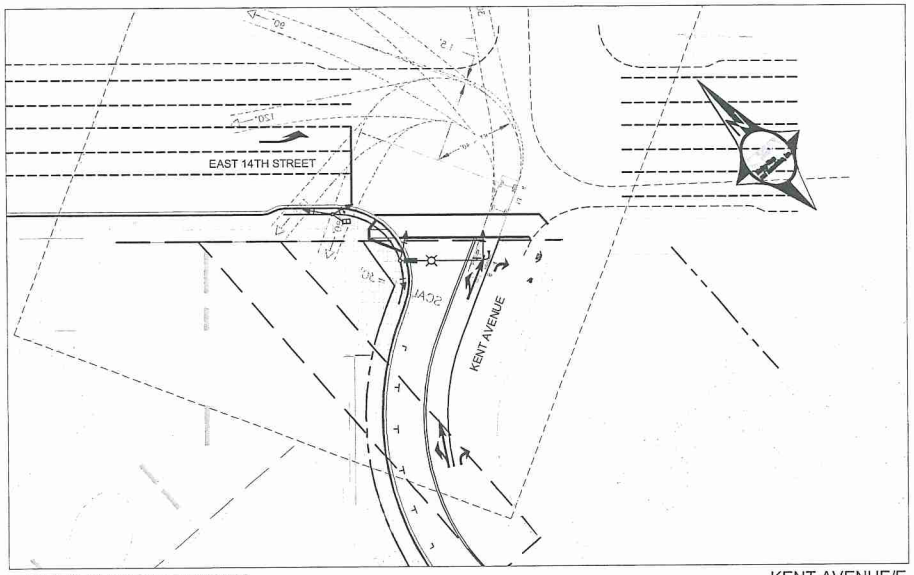
ASHLAND FAMILY HOUSING
FIRE TRUCK TURNING EXHIBIT (sheet 1 of 2)

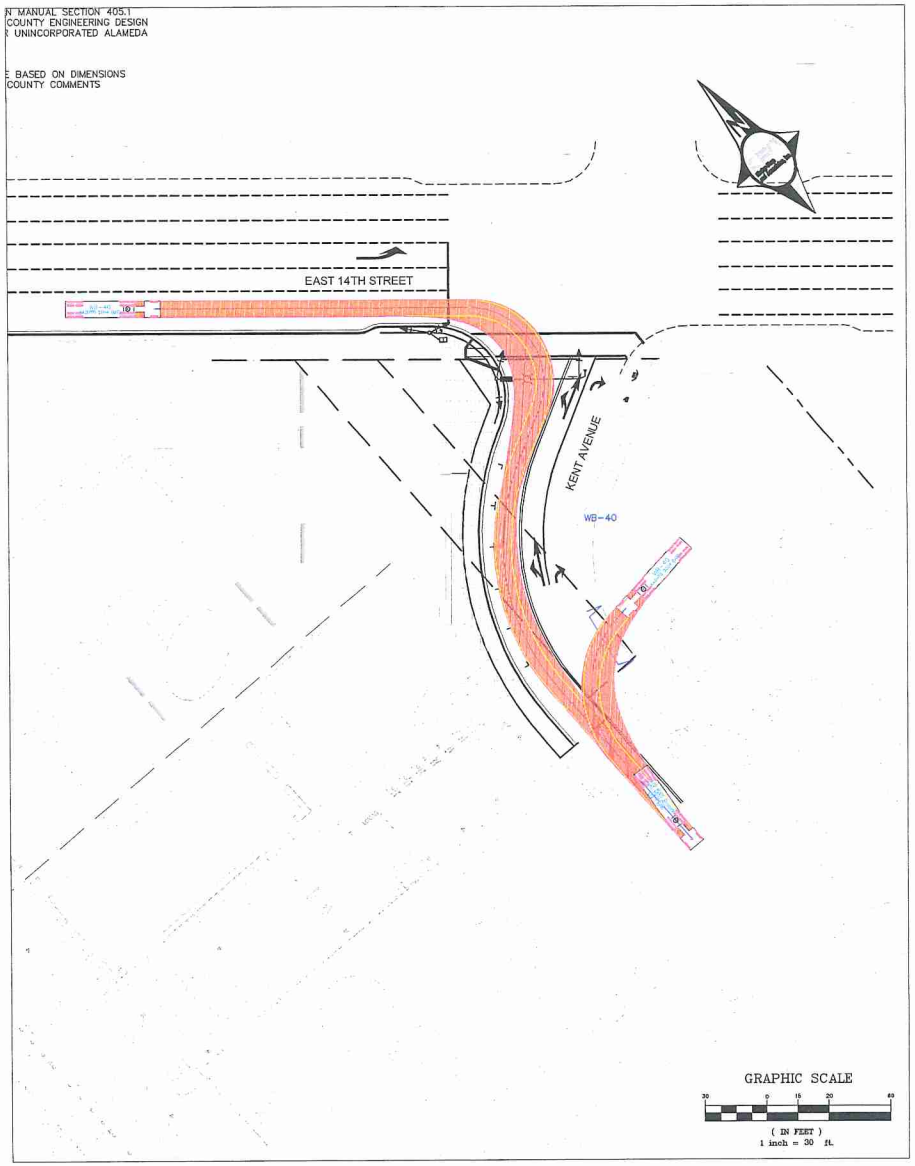
KENT AVENUE/E. 14TH STREET/164TH AVENUE
TR-2

JANUARY 4, 2013

Kimley-Horn and Associates, Inc. ©2013







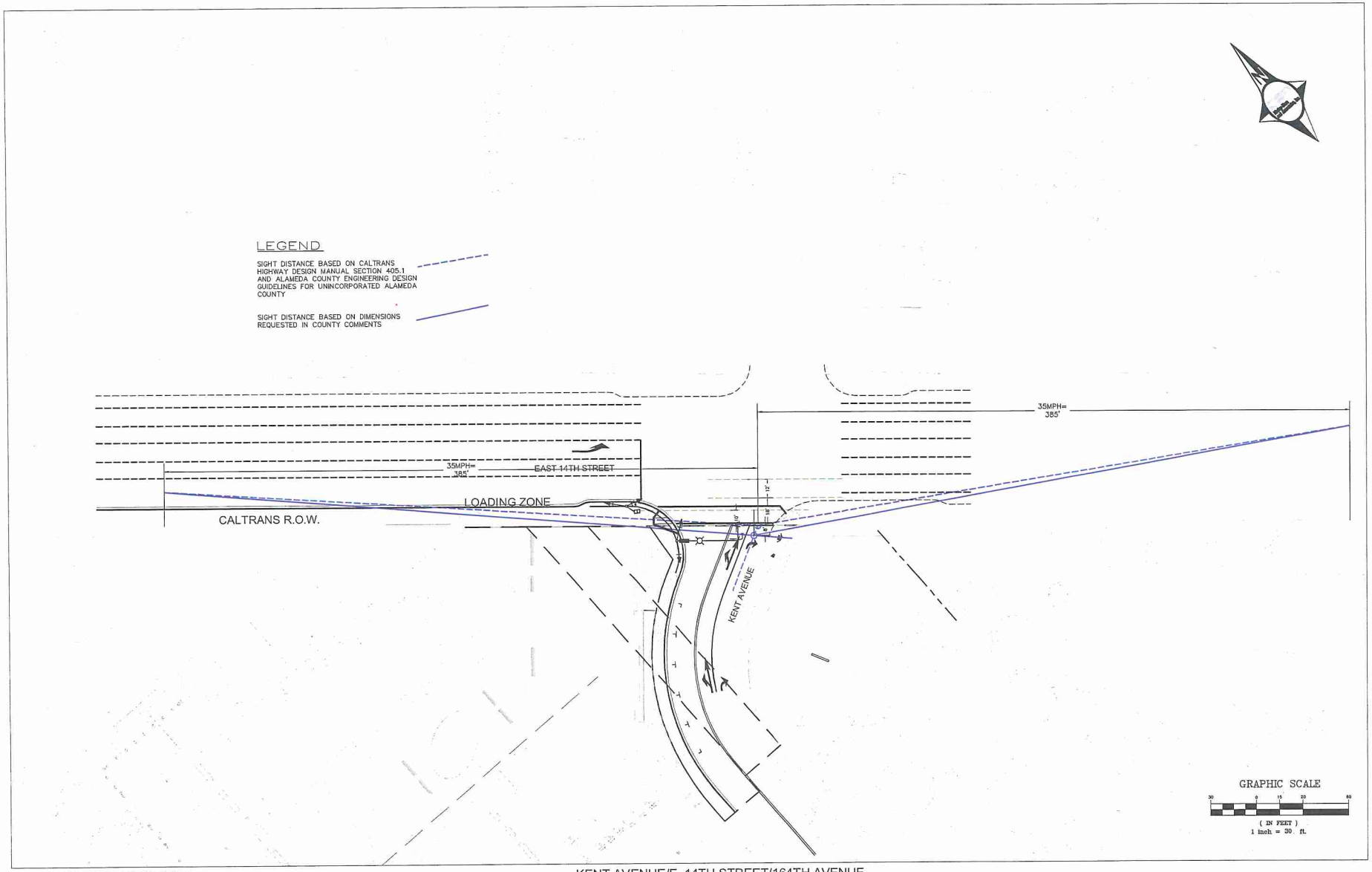
ASHLAND FAMILY HOUSING
FIRE TRUCK TURNING EXHIBIT (sheet 2 of 2)

KENT AVENUE/E. 14TH STREET/164TH AVENUE

TR-2

JANUARY 4, 2013

Kimley-Horn and Associates, Inc.

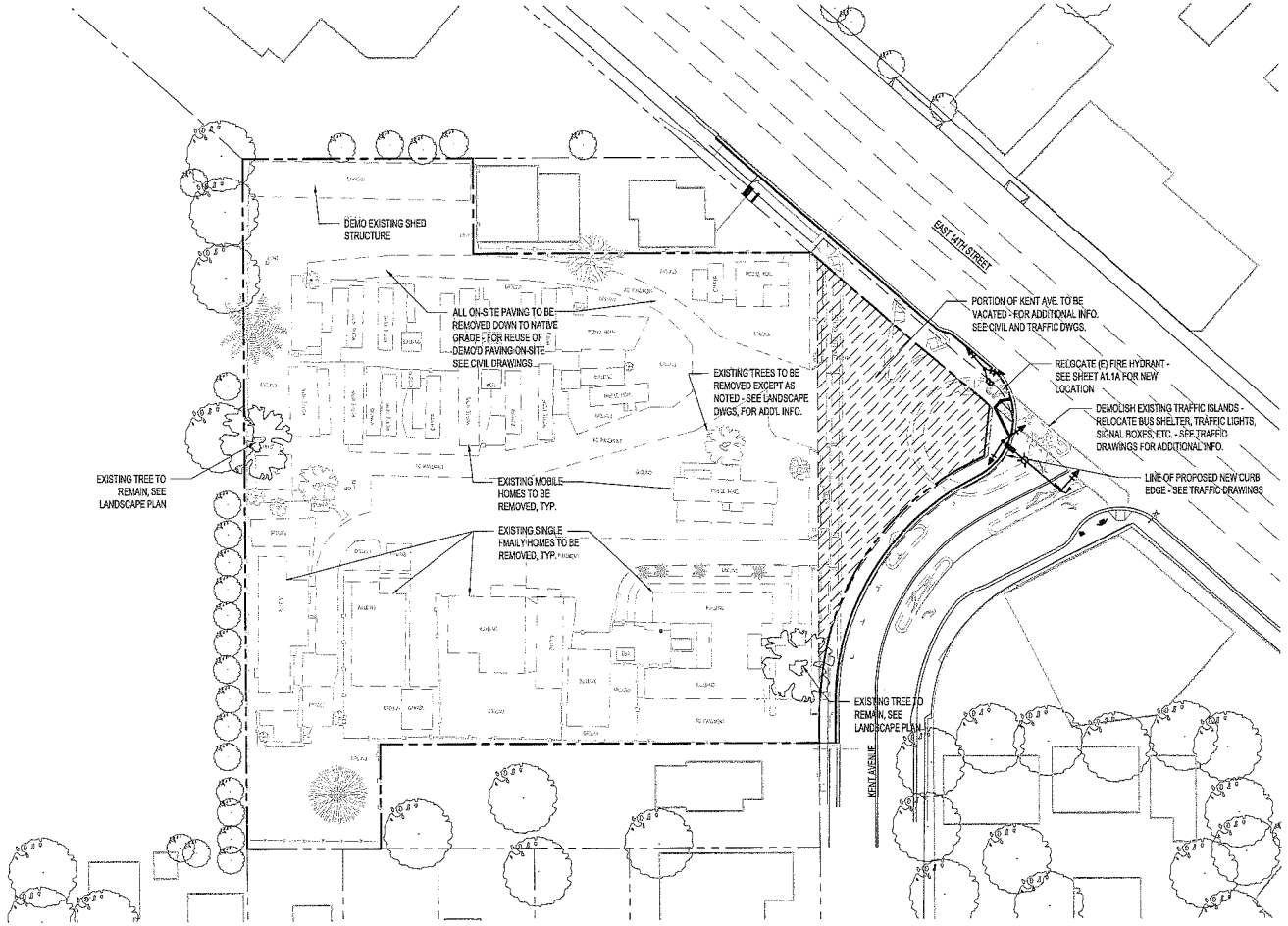


ASHLAND FAMILY HOUSING
CORNER SIGHT DISTANCE EXHIBIT

KENT AVENUE/E. 14TH STREET/164TH AVENUE

JANUARY 4, 2013

Kimley-Horn and Associates, Inc.



NORTH

SITE DEMOLITION PLAN

1/64" = 1'-0" (11x17) 1/32" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

Resources for Community Development

A1.0

KAVA MASSIH ARCHITECTS

920 Grayson Street I Berkeley, CA 94710

SITE INFORMATION:

Site Area =	96,556 s.f. (2.21 acres)
Site Building Coverage =	31,908 s.f. (33.0%)
Landscape Coverage =	17,546 s.f. (18.2%)
Parking Coverage =	33,044 s.f. (34.2%)
Walks / Hardscape =	14,059 s.f. (14.6%)

Per County Design Guidelines for ACBD-TA zone:
Required Parking:
(1) parking space per unit required (not to exceed 1.1 per unit)
No on-site visitor parking required - visitors can utilize commercial parking after-hours
(3.5) spaces per 1,000 s.f. of Commercial Space (maximum)

therefore:
Required Residential Parking:
(85) units = (85) required parking spaces (not to exceed 93)

Required Commercial Parking:
2,343 s.f. area = (8) spaces (maximum)

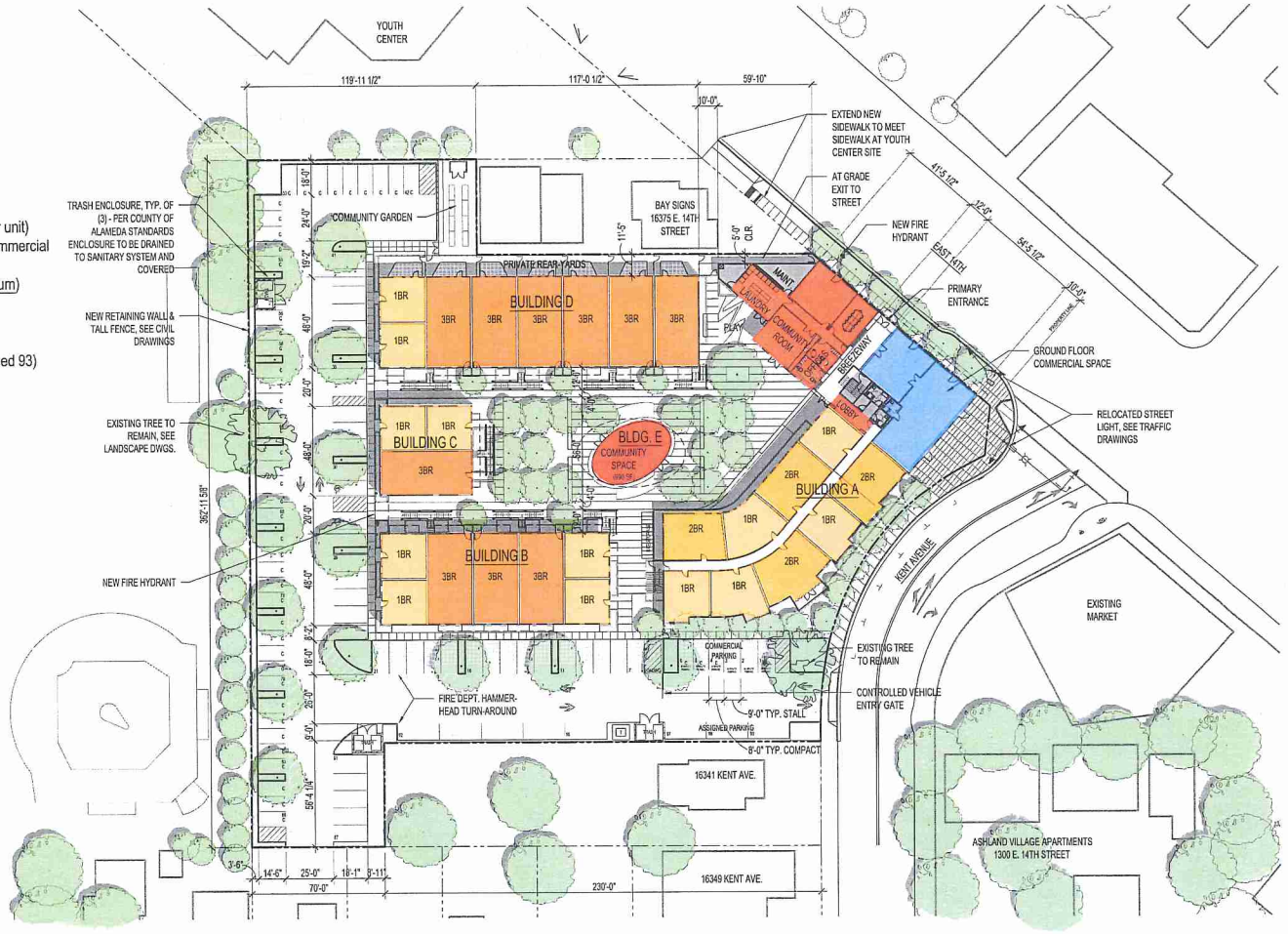
Residential Parking Provided:	
Standard	46
Compact	45
Van Accessible	1
Accessible	1
Subtotal	93

Commercial Parking Provided:	
Standard	2
Compact	3
Van Accessible	1
Subtotal	6

TOTAL PROVIDED	99

COLOR KEY:

- COMMERCIAL
- COMMUNITY
- 3 BEDROOM
- 2 BEDROOM
- 1 BEDROOM
- UTILITY

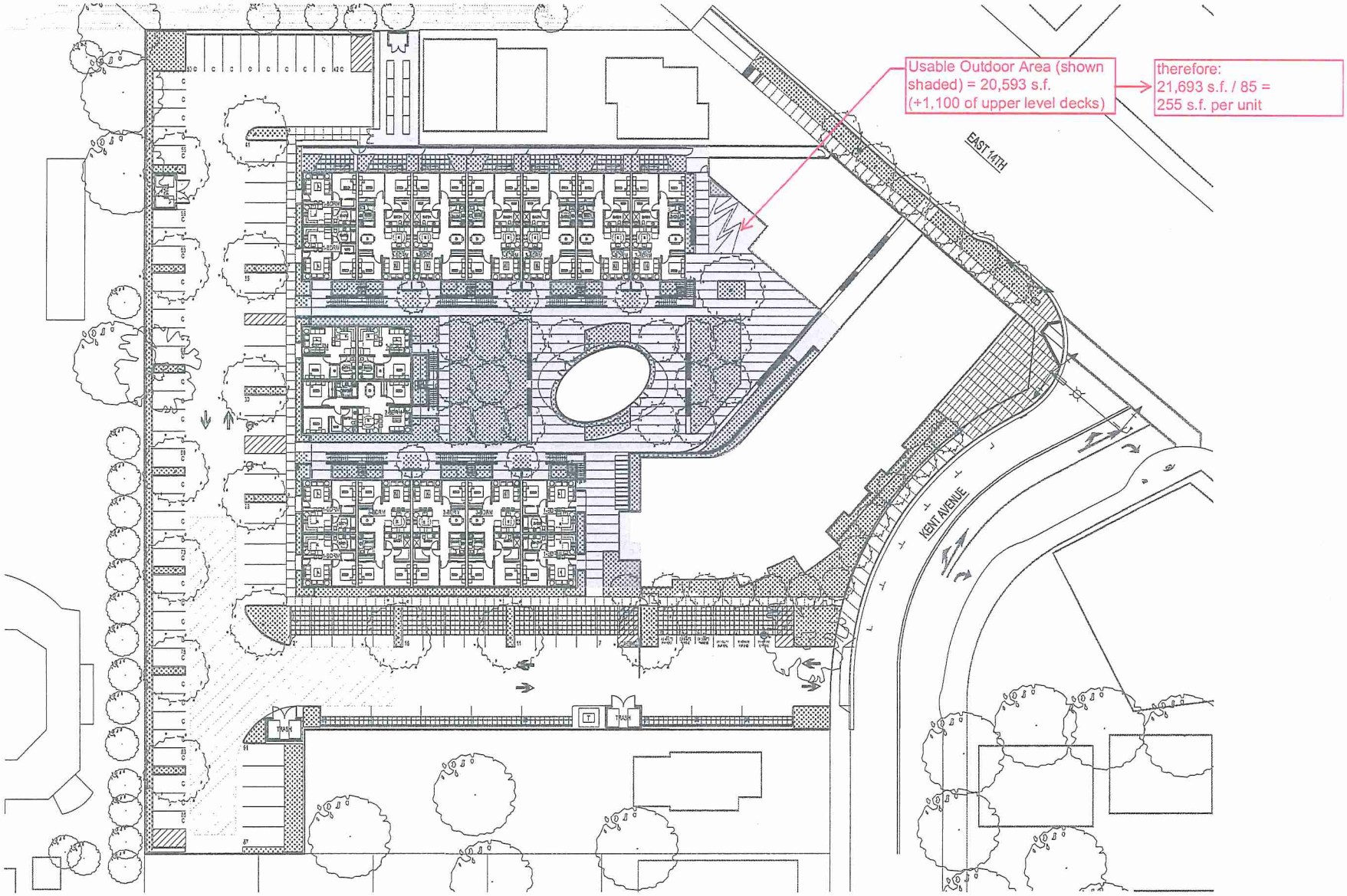


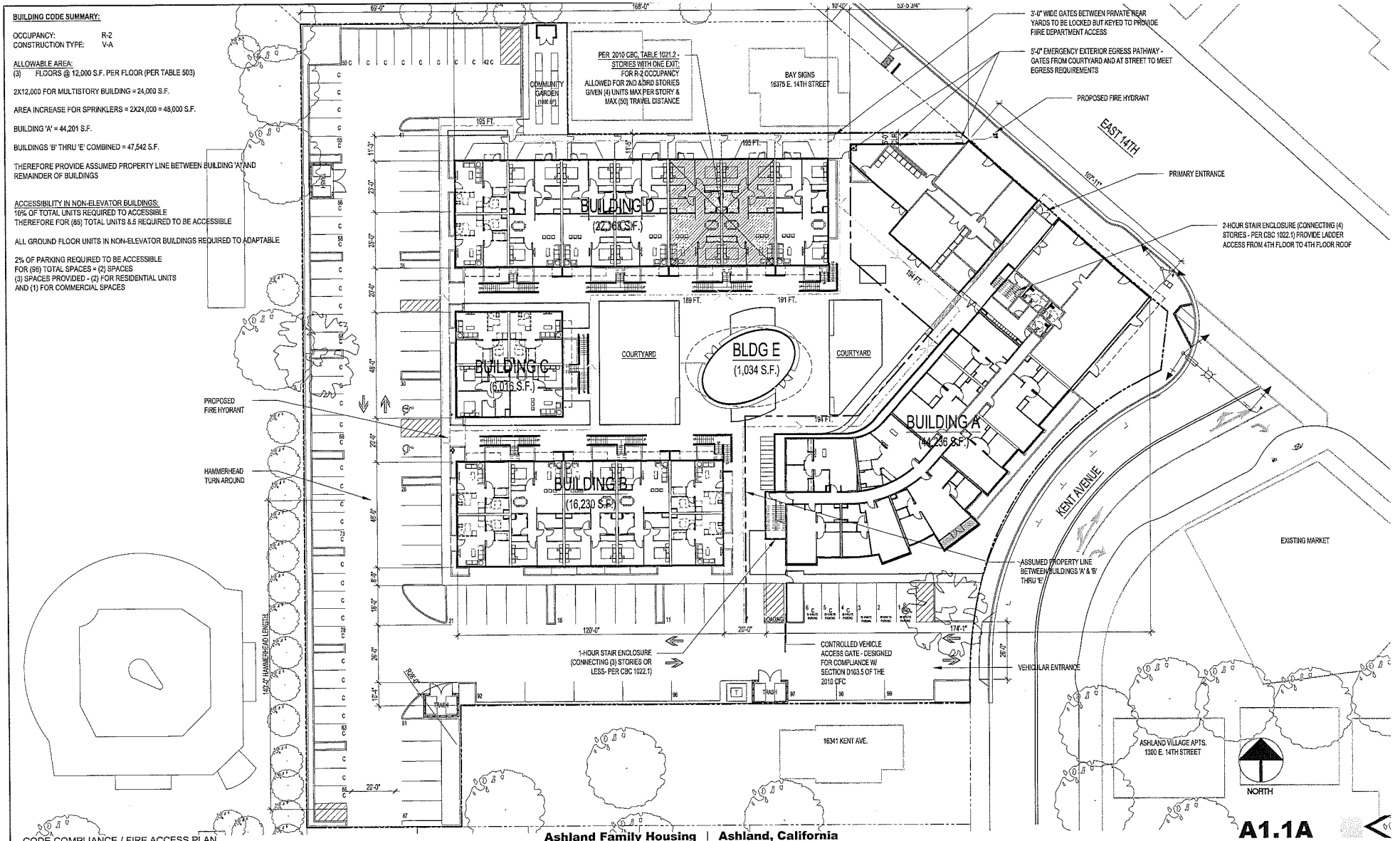
ARCHITECTURAL SITE PLAN
1/64" = 1'-0" (11x17) 1/32" = 1'-0" (22x34)
JAN 4, 2013

Ashland Family Housing | Ashland, California
Resources for Community Development

A1.1

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710


Usable Outdoor Area (shown shaded) = 20,593 s.f.
(+1,100 of upper level decks)
therefore:
21,693 s.f. / 85 =
255 s.f. per unit
EAST 14TH
KENT AVENUE
TRASH
TRASH



CODE COMPLIANCE / FIRE ACCESS PLAN

1" = 40'-0" (11x17) 1" = 20'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

Resources for Community Development

A1.1A

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

COLOR KEY:

- COMMERCIAL
- COMMUNITY
- 3 BEDROOM
- 2 BEDROOM
- 1 BEDROOM
- CIRCULATION
- UTILITY

LEVEL 1 PLAN

1/32" = 1'-0" (11x17) 1/16" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

Resources for Community Development

A2.1

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

COLOR KEY:

- COMMERCIAL
- COMMUNITY
- 3 BEDROOM
- 2 BEDROOM
- 1 BEDROOM
- CIRCULATION
- UTILITY

LEVEL 2 PLAN

1/32" = 1'-0" (11x17) 1/16" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

Resources for Community Development

A2.2

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

COLOR KEY:

- COMMERCIAL
- COMMUNITY
- 3 BEDROOM
- 2 BEDROOM
- 1 BEDROOM
- CIRCULATION
- UTILITY

LEVEL 3 PLAN

1/32" = 1'-0" (11x17) 1/16" = 1'-0" (22x34)

JAN 4, 2013

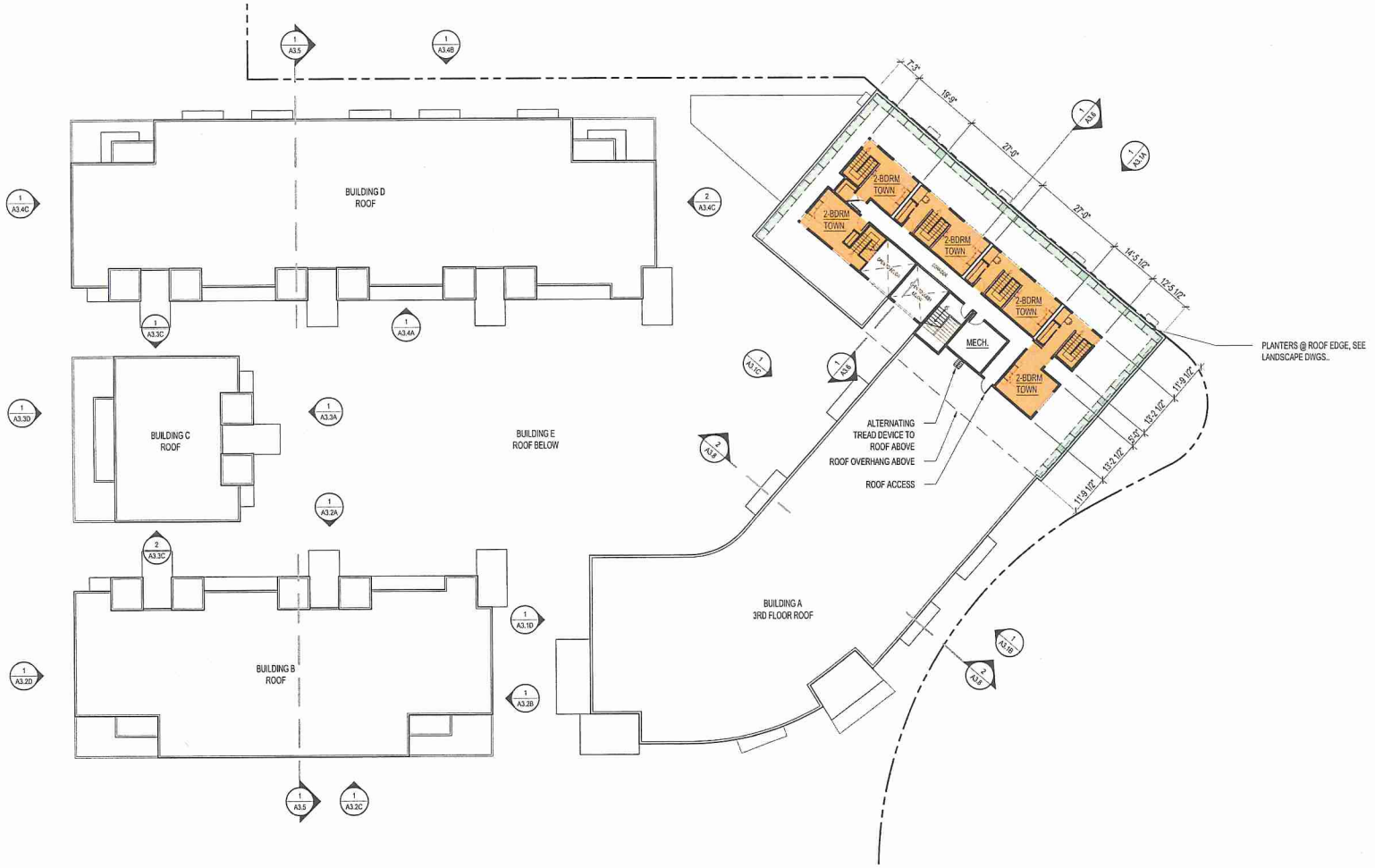
Ashland Family Housing | Ashland, California

Resources for Community Development

A2.3

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



COLOR KEY:

- COMMERCIAL
- COMMUNITY
- 3 BEDROOM
- 2 BEDROOM
- 1 BEDROOM
- CIRCULATION
- UTILITY

NORTH

LEVEL 4 PLAN

1/32" = 1'-0" (11x17) 1/16" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

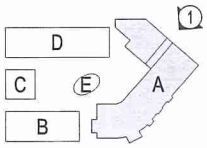
Resources for Community Development

A2.4

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

NORTHEAST ELEVATION ALONG E. 14TH STREET (1)



BUILDING 'A' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

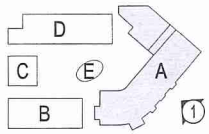
Ashland Family Housing | Ashland, California

Resources for Community Development

A3.1A

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



BUILDING 'A' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

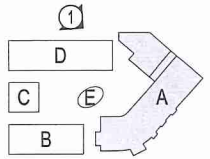
Resources for Community Development

A3.1B

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

NORTHWEST ELEVATION 1



BUILDING 'A' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

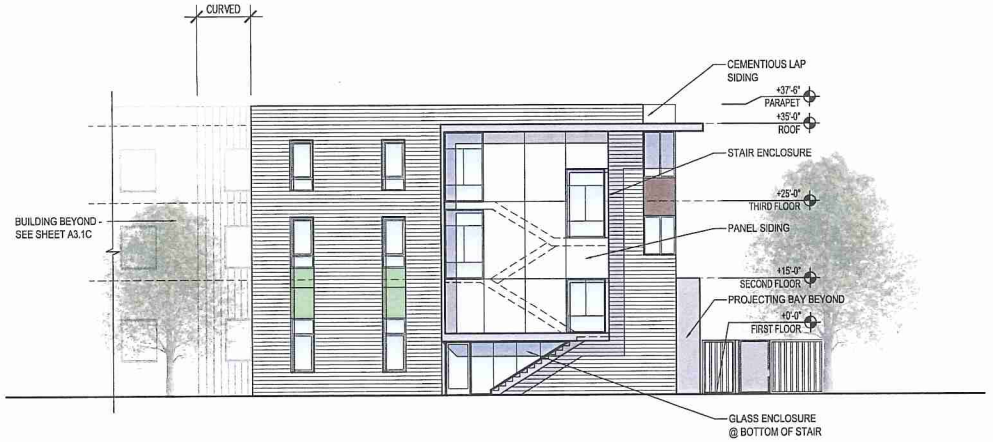
Ashland Family Housing | Ashland, California

Resources for Community Development

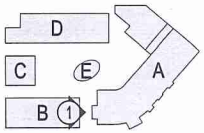
A3.1C

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



WEST ELEVATION 1



BUILDING 'A' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

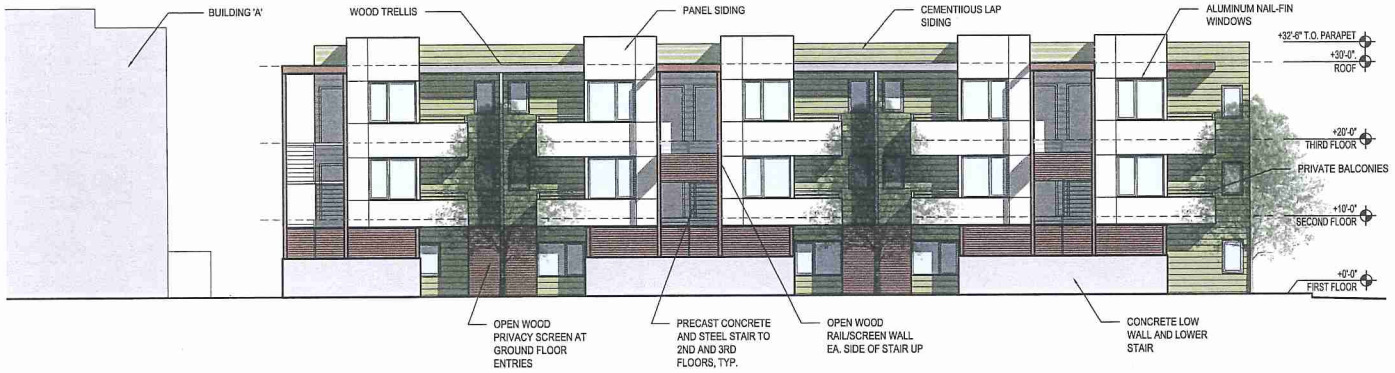
Ashland Family Housing | Ashland, California

Resources for Community Development

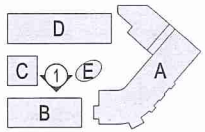
A3.1D

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



NORTH ELEVATION 1



BUILDING 'B' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

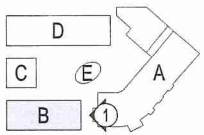
Resources for Community Development

A3.2A

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

EAST ELEVATION 1



BUILDING 'B' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

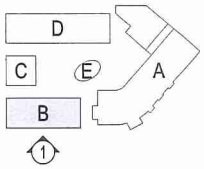
Resources for Community Development

A3.2B

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

SOUTH ELEVATION 1



BUILDING 'B' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

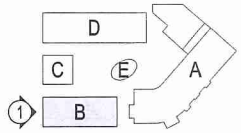
Resources for Community Development

A3.2C

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

WEST ELEVATION 1



BUILDING 'B' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

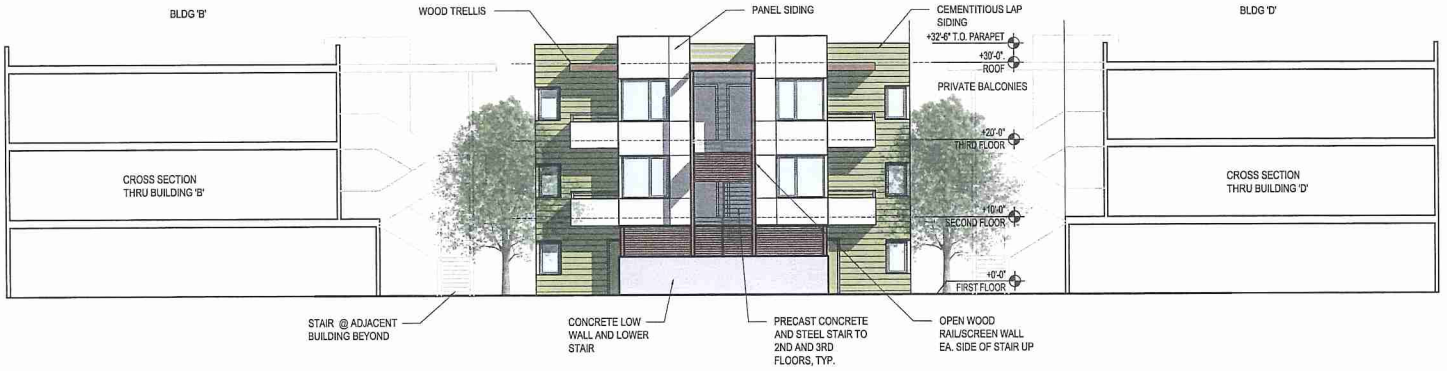
Ashland Family Housing | Ashland, California

Resources for Community Development

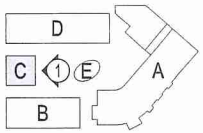
A3.2D

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



EAST ELEVATION 1



BUILDING 'C' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

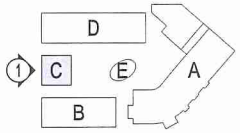
Resources for Community Development

A3.3A

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

WEST ELEVATION 1



BUILDING 'C' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

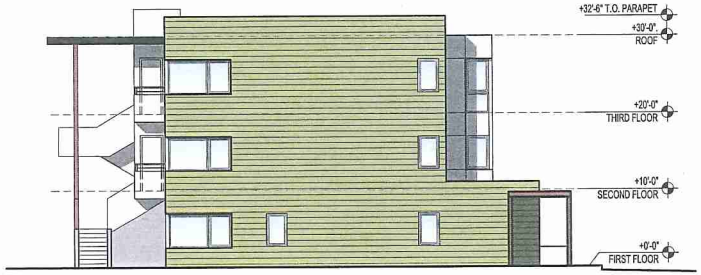
Ashland Family Housing | Ashland, California

Resources for Community Development

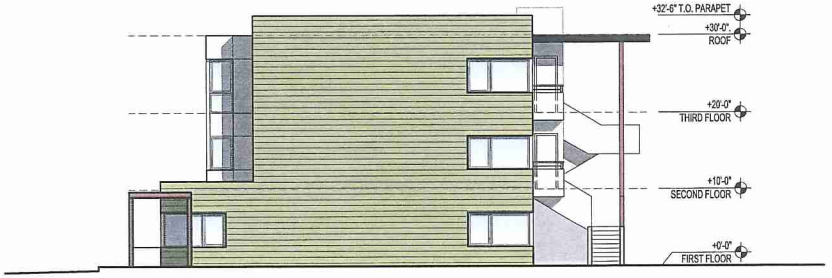
A3.3B

KAVA MASSIH ARCHITECTS

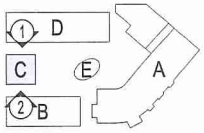
920 Grayson Street | Berkeley, CA 94710



NORTH ELEVATION 1



SOUTH ELEVATION 2



BUILDING 'C' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

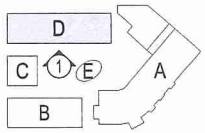
Resources for Community Development

A3.3C

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

SOUTH ELEVATION 1



BUILDING 'D' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

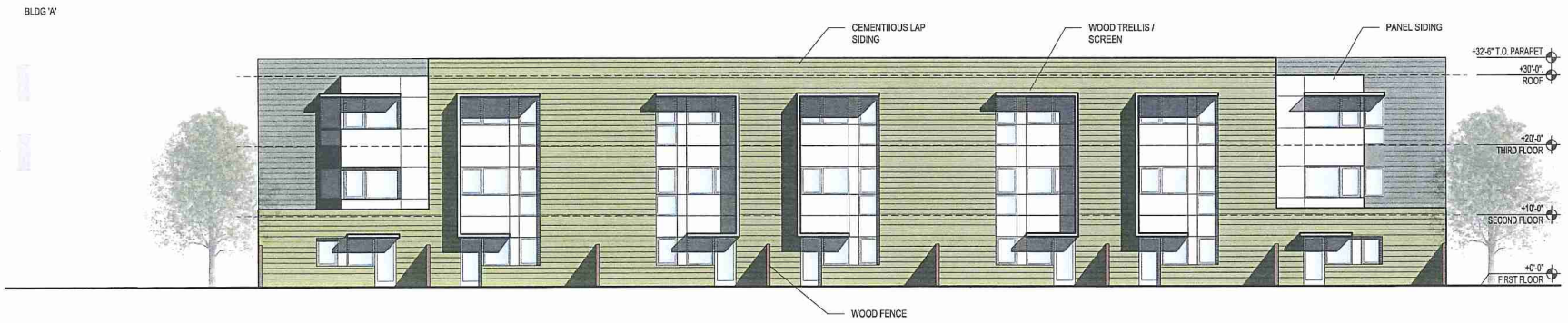
Ashland Family Housing | Ashland, California

Resources for Community Development

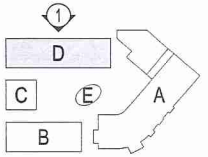
A3.4A

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



NORTH ELEVATION 1



BUILDING 'D' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

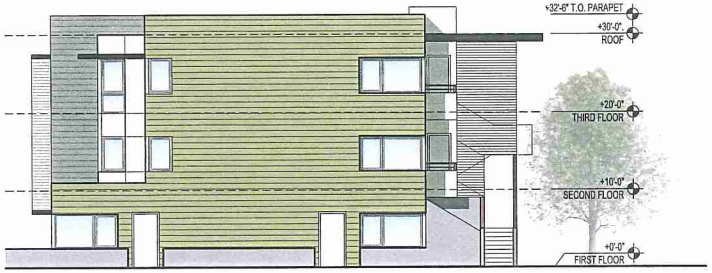
Ashland Family Housing | Ashland, California

Resources for Community Development

A3.4B

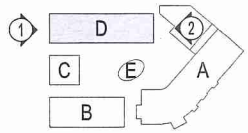
KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



WEST ELEVATION 1

EAST ELEVATION 2



BUILDING 'D' ELEVATIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

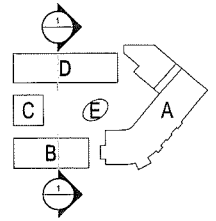
Ashland Family Housing | Ashland, California

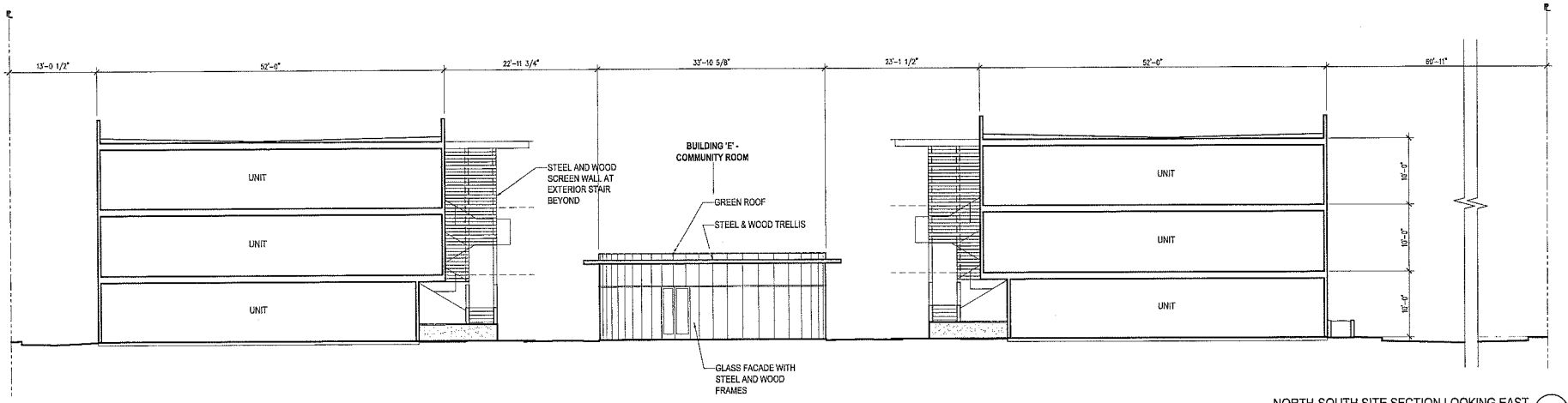
Resources for Community Development

A3.4C

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710





NORTH-SOUTH SITE SECTION LOOKING EAST (1)

SITE SECTIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

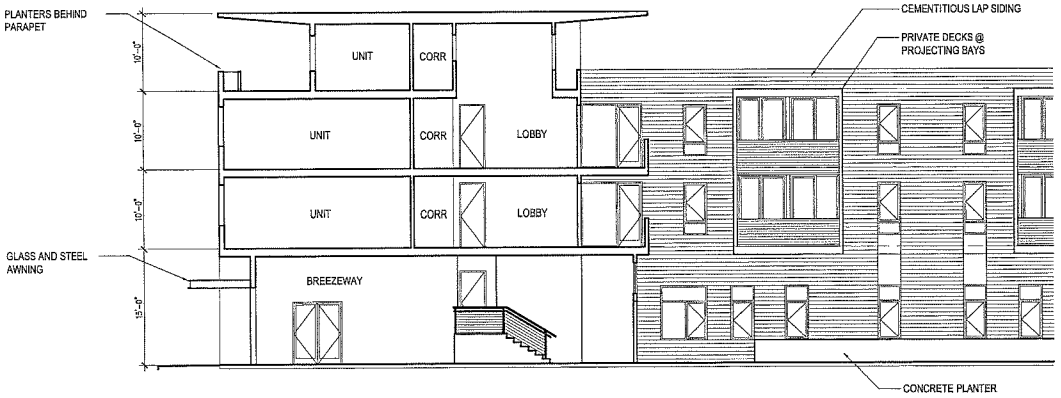
Ashland Family Housing | Ashland, California

Resources for Community Development

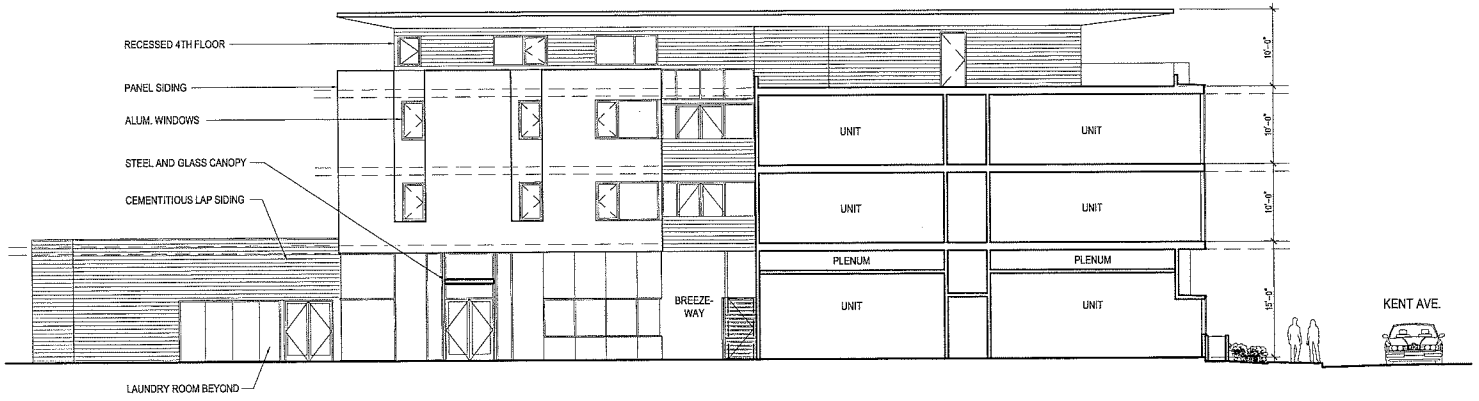
A3.5

KAVA MASSIH ARCHITECTS

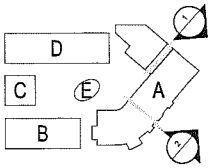
920 Grayson Street | Berkeley, CA 94710



SECTION AT BUILDING 'A' BREEZEWAY 1



LONGITUDINAL SECTION - BUILDING A 2



BUILDING SECTIONS

1/16" = 1'-0" (11x17) 1/8" = 1'-0" (22x34)

JAN 4, 2013

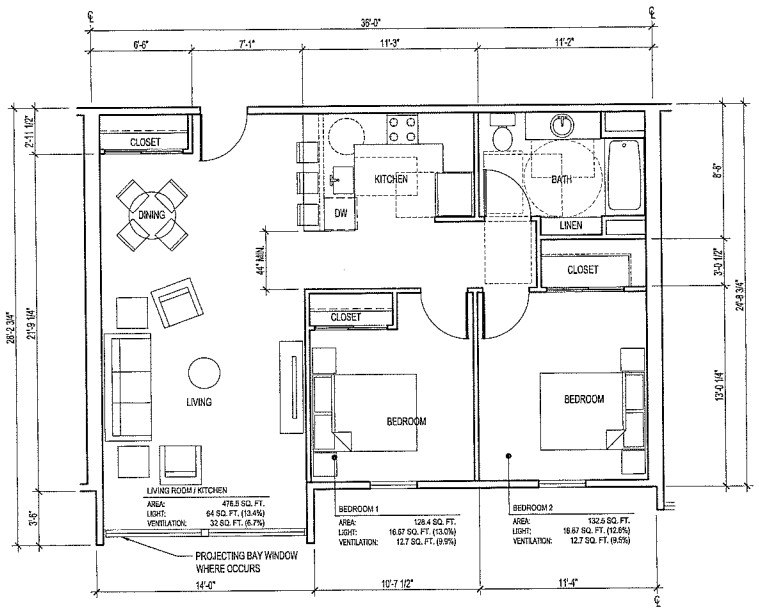
Ashland Family Housing | Ashland, California

Resources for Community Development

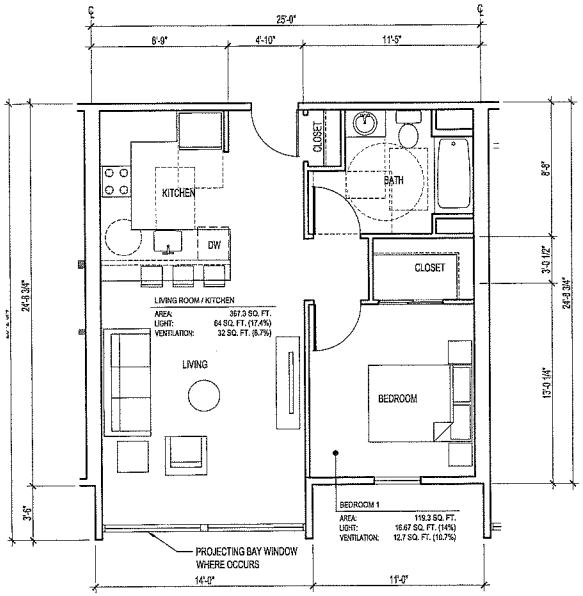
A3.6

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



TYP. 2 BEDROOM FLOOR PLAN (917 SQ.FT.) 2
(ADAPTABLE @ 1ST FLOOR) AS NOTED



TYP. 1 BEDROOM FLOOR PLAN (645 SQ.FT.) 1
(ADAPTABLE @ 1ST FLOOR) AS NOTED

BUILDING A TYPICAL UNIT PLANS

1/8" = 1'-0" (11x17) 1/4" = 1'-0" (22x34)

JAN 4, 2013

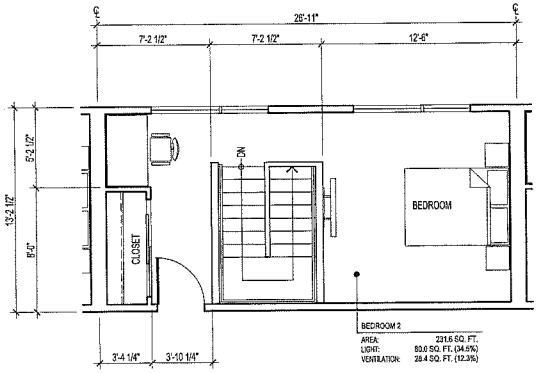
Ashland Family Housing | Ashland, California

Resources for Community Development

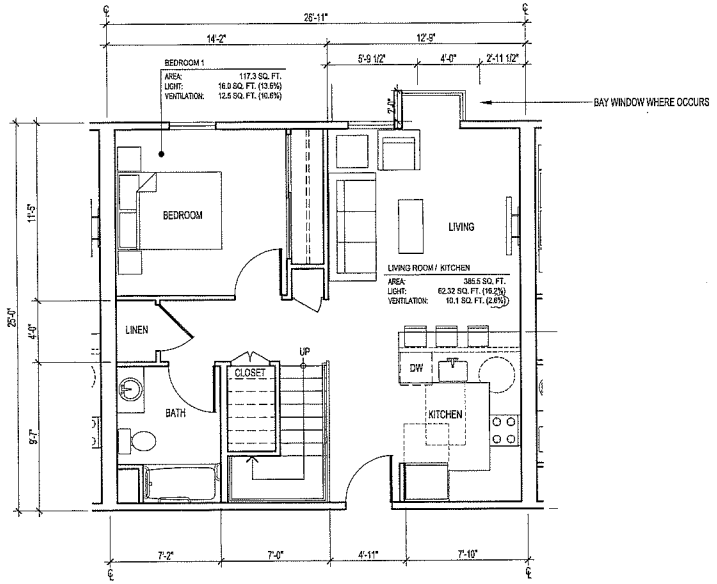
A4.1

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



UPPER FLOOR PLAN (291 SQ.FT.)



LOWER FLOOR PLAN (625 SQ.FT.)

TYP. 2 BEDROOM TOWNHOUSE FLOOR PLAN (916 SQ.FT.) 1
AS NOTED

BUILDING A TYPICAL 2 BEDROOM TOWNHOUSE PLANS

1/8" = 1'-0" (11x17) 1/4" = 1'-0" (22x34)

JAN 4, 2013

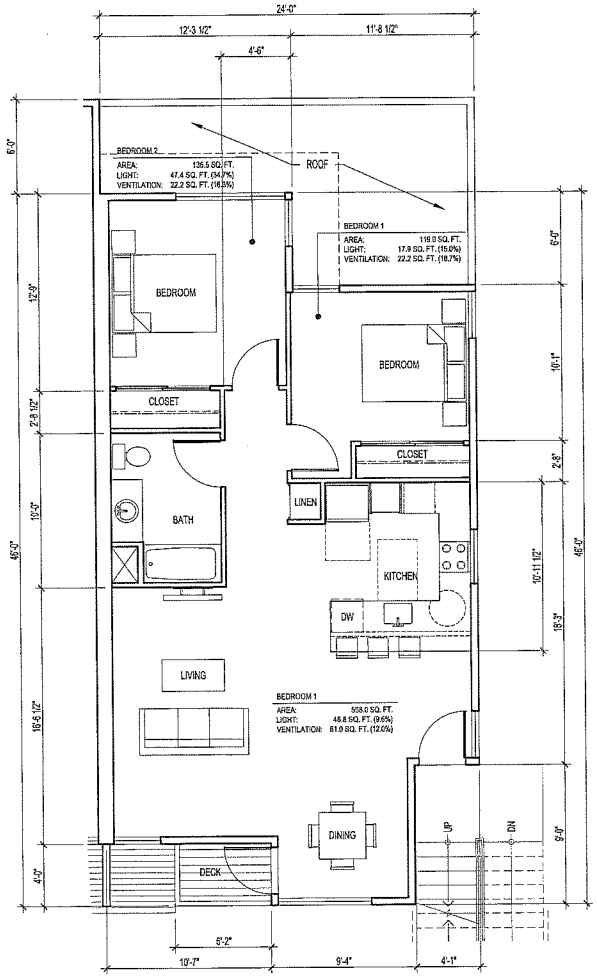
Ashland Family Housing | Ashland, California

Resources for Community Development

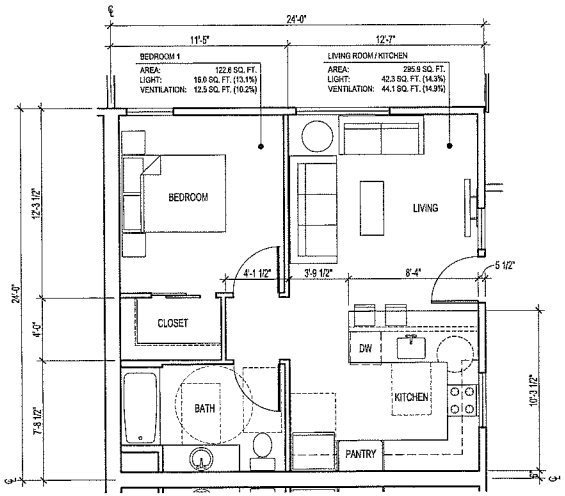
A4.2

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



TYP. 2 BEDROOM FLOOR PLAN (955 SQ.FT.) 2
AS NOTED



TYP. 1 BEDROOM FLOOR PLAN (576 SQ.FT.) 1
(ADAPTABLE @ 1ST FLOOR)
AS NOTED

BUILDING B, C, D TYPICAL FLOOR PLANS

1/8" = 1'-0" (11x17) 1/4" = 1'-0" (22x34)

JAN 4, 2013

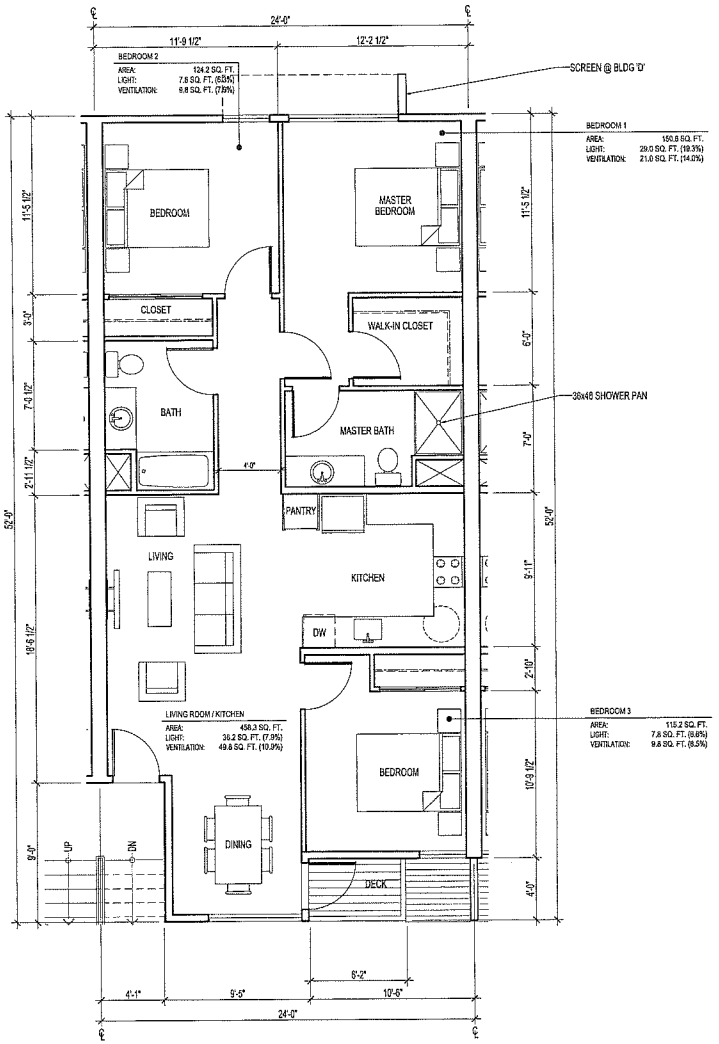
Ashland Family Housing | Ashland, California

Resources for Community Development

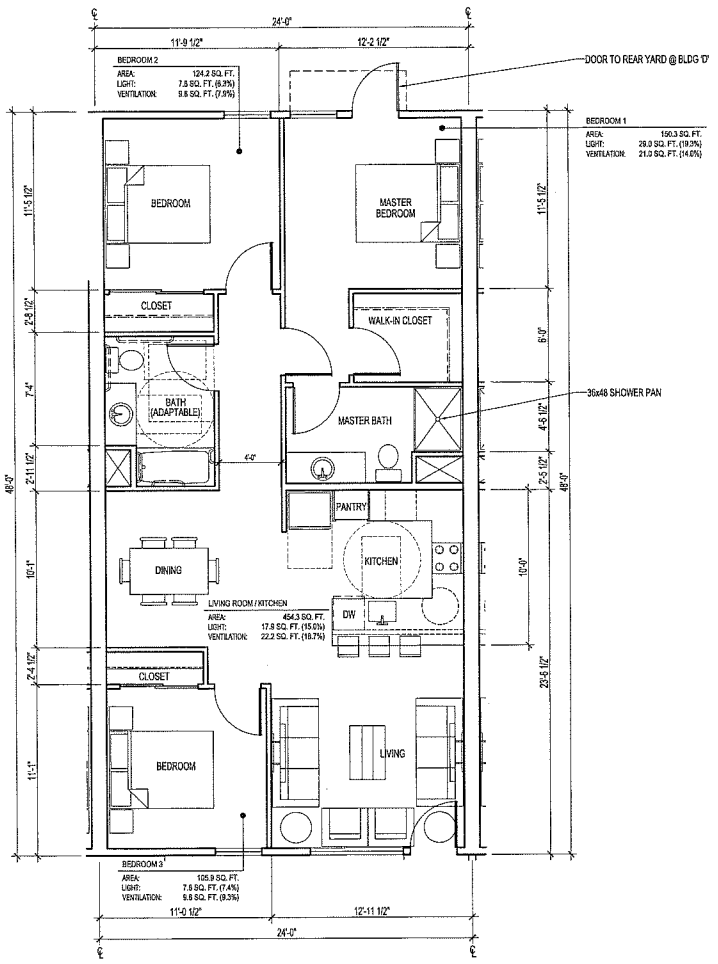
A4.3

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



TYP. 3 BEDROOM FLOOR PLAN @ UPPER LEVEL (1,167 SQ.FT.) 2
AS NOTED



TYP. 3 BEDROOM FLOOR PLAN @ GROUND LEVEL (1,148 SQ.FT.) 1
(ADAPTABLE @ 1ST FLOOR)
AS NOTED

BUILDING B, C, D TYPICAL FLOOR PLANS

1/8" = 1'-0" (11x17) 1/4" = 1'-0" (22x34)

JAN 4, 2013

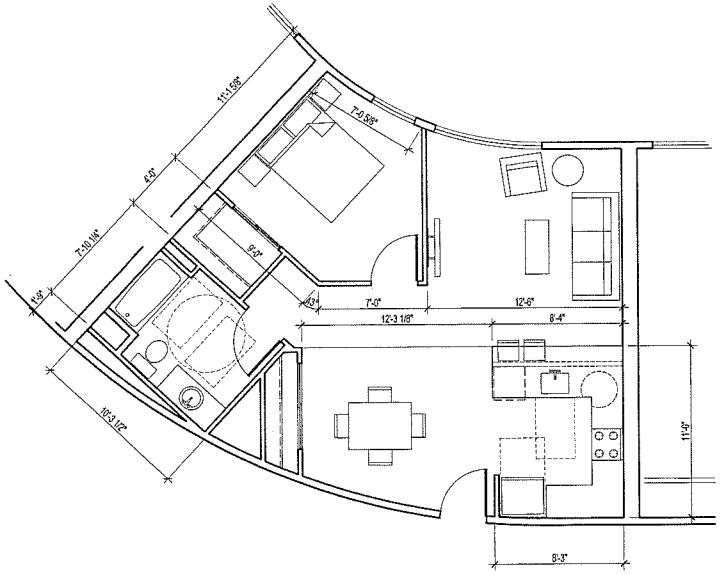
Ashland Family Housing | Ashland, California

Resources for Community Development

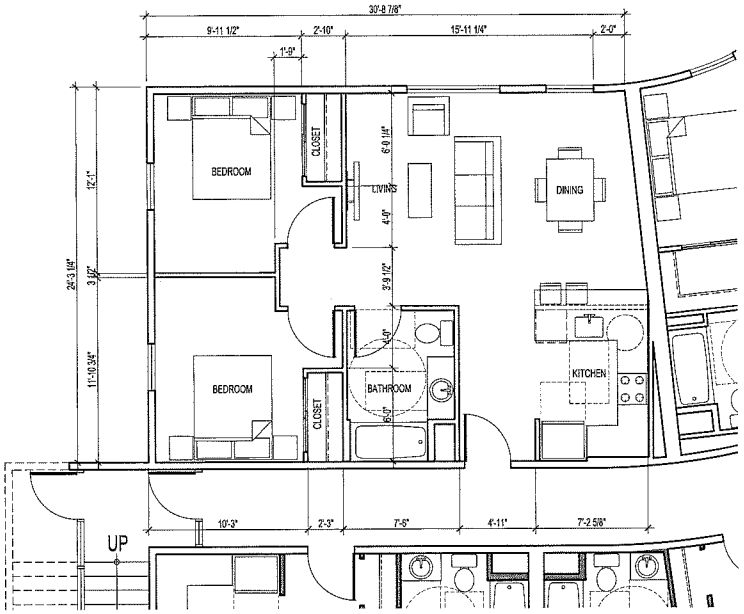
A4.4

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710



UNIT 1G - ADAPTABLE AT FIRST FLOOR (740 SQ.FT.) 2
AS NOTED



UNIT 2F - ADAPTABLE AT FIRST FLOOR (803 SQ.FT.) 1
AS NOTED

BUILDING A UNIT PLANS

1/8" = 1'-0" (11x17) 1/4" = 1'-0" (22x34)

JAN 4, 2013

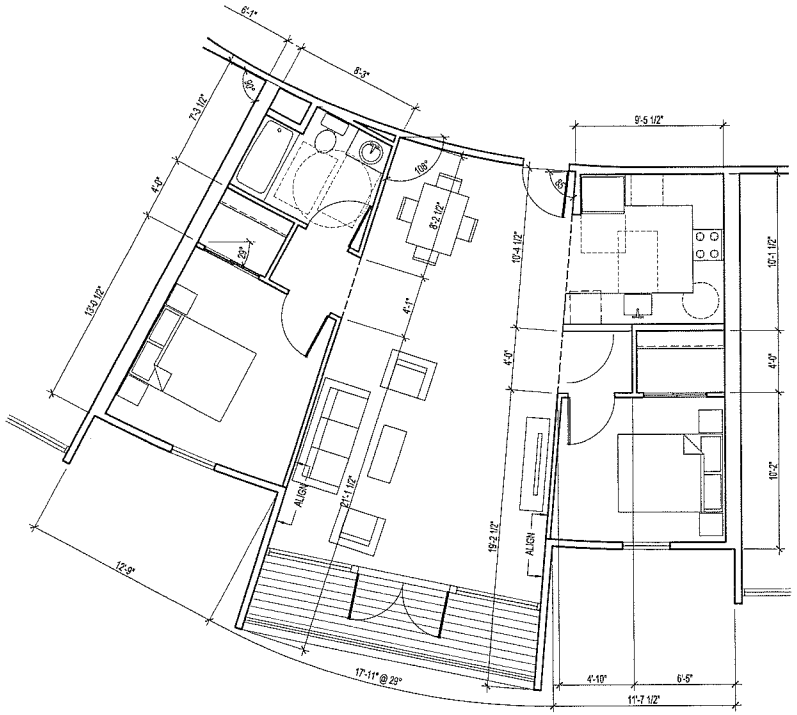
Ashland Family Housing | Ashland, California

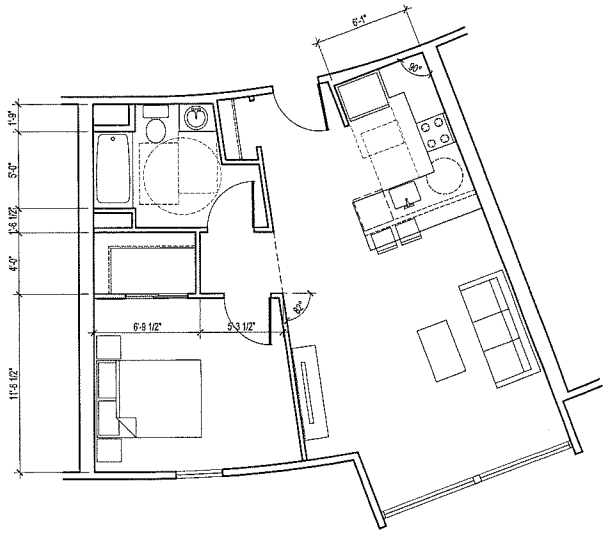
Resources for Community Development

A4.5

KAVA MASSIH ARCHITECTS

920 Grayson Street I Berkeley, CA 94710





UNIT 3E - ADAPTABLE AT FIRST FLOOR (963 SQ.FT.) 2
AS NOTED

UNIT 1F - ADAPTABLE AT FIRST FLOOR (710 SQ.FT.) 1
AS NOTED

BUILDING A UNIT PLANS

1/8" = 1'-0" (11x17) 1/4" = 1'-0" (22x34)

JAN 4, 2013

Ashland Family Housing | Ashland, California

Resources for Community Development

A4.6

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

SITE PERSPECTIVE
NOT TO SCALE
JAN 4, 2013

Ashland Family Housing | Ashland, California
Resources for Community Development

A5.1
KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710

SITE PERSPECTIVE

NOT TO SCALE

JAN 4, 2013

Ashland Family Housing | Ashland, California

Resources for Community Development

A5.2

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

SITE PERSPECTIVE
NOT TO SCALE
JAN 4, 2013

Ashland Family Housing | Ashland, California
Resources for Community Development

A5.3

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710

SITE PERSPECTIVE
NOT TO SCALE
JAN 4, 2013

Ashland Family Housing | Ashland, California
Resources for Community Development

A5.4

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710

VIEW LOOKING NORTH ON E. 14TH STREET

NOT TO SCALE

JAN 4, 2013

Ashland Family Housing | Ashland, California

Resources for Community Development

A5.5

KAVA MASSIH ARCHITECTS

920 Grayson Street | Berkeley, CA 94710

1

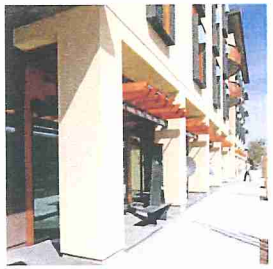
2

3

MATERIAL PALETTE:

1-PANEL SIDING
2-LAP SIDING
3-SHINGLE SIDING
4-CEMENT PLASTER
5-WOOD SIDING
6-TRANSLUCENT RESIN PANELS
7-CAST IN PLACE CONCRETE PLANTERS
8-ALUMINUM WINDOWS
9-WOOD FENCE
10-GREEN ROOF

4

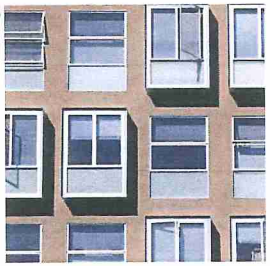


5

6

7

8



9

10

MATERIALS PALETTE
NOT TO SCALE
JAN 4, 2013

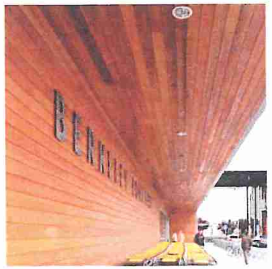
Ashland Family Housing | Ashland, California
Resources for Community Development

A10.1

KAVA MASSIH ARCHITECTS
920 Grayson Street | Berkeley, CA 94710

1

2



3

MATERIAL PALETTE:

1-LAP SIDING
2-WOOD SIDING
3-TRANSLUCENT RESIN SIDING
4-STUCCO W/ ALUMINUM WINDOWS
5-CAST IN PLACE CONCRETE STAIRS
6-ALUMINUM STOREFRONT WINDOWS
7-WOOD FENCE
8-METAL FENCE W/GRILLEWORK
9-GLASS/ALUMINUM GARAGE DOOR
10-COLORS

4

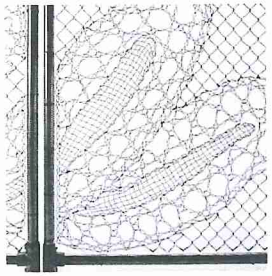
5

6

East 14th Street / Accent Colors

7

8



9

10

Kent Ave. / Primary Project Colors